



Product Guide 2025

The company

Giordano Riello, founder of Aermec, assisted by his son Alessandro and daughter Raffaella, has solidly associated the Company name with precise values:

Respect for the environment

By using new eco-friendly refrigerants as well as innovative installations using water as the carrier fluid.

Energy saving

The great challenge of the Third Millennium, with the development of combined heating and air conditioning systems where appliances are used only as and when necessary.

Noise pollution control

With low-noise emission products, which undergo scrupulous testing before being put on the market.

Health care

With special filters that hold back the smallest suspension particles, the Cold Plasma Generator system that guarantees effective air purification (making for a healthier environment), and the new photocatalytic device, this air purification system is ideal for places where the highest degree of hygiene is required.



History

1961

Giordano Riello sets up Riello Condizionatori, initially producing for contractors only. The story begins.

1963

The Aermec brand is born and marks all future company products designed and manufactured on site. The brand name gains a stronghold as a major product name in Italy and throughout Europe.

1970

Aermec can already supply fresh and warm air. Aermec presents the first dual section conditioner: the first "split-system". Fancoil production starts.

1973

Aermec receives European Award Gold Mercury.

1980

The Eighties sees the development of water chillers and air handling units.

1990

The Nineties mark the definitive consolidation of the company on the market. The Aermec brand is associated with advanced technology and high quality design.

1998

The name makes the company. From 1 January Aermec becomes the company name as well as product brand.

2002

Design and technology: Aermec launched Omnia a new generation of fancoils, designed for domestic applications. OMNIA is the result of co operation with a worldwide prestigious designer.

2003

Aermec UK was acquired.

2004

The international market ask for number and Aermec answer. Giordano Riello make the producing system more technological.

2008

Aermec responds with more and more efficient units to the world challenge of energy saving with a special attention for our environment.

2011

Aermec turns 50. The company has developed and enlarged, always willing to understand and anticipate the needs of the market. Promoter of "integrated design" between designer and architect.

2012

Aermec Polska was acquired.

2015

The news Europe's largest test facility for air conditioning applications was inaugurated.

2017

Aermec receives Innovation Award from the US Organizations ASHRAE, AHRI and AHR. Aermec receives "Prime Company" certificate for the economic strength and commercial reliability from the Dun & Bradstreet. Aermec Deutschland was acquired.

2018

Aermec awards first prize in "RAC Cooling Industry Award 2018" in London by an Internationally qualified Jury.

2019

Aermec receives the prizes: "NATIONAL ACR & HEAT PUMPS AWARDS 2019" in the category of Data Centre Rooftop Chiller installation, "H&V News Awards 2019" attributed by a HVAC technical jury the United Kingdom.

2020

For the second year in a row, Aermec receives the prize ACR NEWS AWARDS for Data Centers category in the UK.

2021

Aermec turns 60.

Aermec's 60th anniversary coincides with the Covid 19 pandemic.

The company opens a vaccination hub available not only to its own employees but to the entire population of the area.

2022

Aermec breaks through the barrier of 300 million turnover. The Raffaello Riello Research and Training Centre was inaugurated on 12 May.

2023

Founder Giordano Riello leaves us on May 14.

2024

The Spanish companies Airlan and Airlan Industrial were acquired. The holding company Aermec North America that controls Aermec USA and Aermec Canada for the distribution of products in the North American continent was established.

LOGO INDEX:

CERTIFICATIONS:



CE marking

REFRIGERANT:



R290 refrigerant



R32 refrigerant



R1234ze refrigerant



R134a refrigerant



R410A refrigerant



XP10 refrigerant

OPERATIONAL TYPES:



Evaporating unit



Cooling and heating



Cooling only



DHW



Condensing unit



Free-Cooling



Heating only



Multipurpose



For four pipes plants



For three pipes plants



For two pipes plants

INSTALLATION TYPES:



Cassette installation



Ceiling installation



Ducted installation



Floor installation



Wall installation



Air indoor unit



Air outdoor unit



Water indoor unit

KINDS OF EXCHANGERS :



Heat recovery



Plate exchanger



Pump kit



Shell and tube exchanger



Water tank

KINDS OF COMPRESSORS:



Centrifugal compressor



Inverter centrifugal compressor



Rotary compressor



Inverter rotary compressor



Scroll compressor



Inverter scroll compressor



Twin screw compressor



Inverter twin screw compressor

KINDS OF FANS:



Axial fan



Inverter axial fan



Centrifugal fan



Inverter centrifugal fan



EC fan



Inverter EC fan



Plug fan



Inverter plug fan

EXTRA:



Inverter device



Compatible with ModBus protocol



Cold Plasma device



Touch control



Compatible with VMF system (Variable Multi Flow)



Aermec is one of the companies belonging to Giordano Riello International Group and takes part to Eurovent programme for NCD series.



Aermec takes part to EUROVENT Programmes: FCH - FCHP for fan coil series.
Aermec is involved in EUROVENT Programme: LCP for chiller range.
The products involved appear on the website www.eurovent-certification.com



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FACILITY

I N D E X

FAN COILS		Air flow rate (m³/h)	Cool. Cap. (kW)	Heat. Cap. (kW)	Page	
With cabinet; universal installation						
	FCZ	On/Off	110-1300	0,65-7,62	1,45-17,02	12
	FCZI	Inverter	140-1140	0,89-8,60	2,02-17,10	25
	FCZ-D	On/Off	140-720	0,89-4,25	2,02-8,50	34
	FCZI-D	Inverter	140-720	0,89-4,25	2,02-8,50	39
	FCZ-H	On/Off	140-1140	0,89-8,60	2,02-17,10	44
	FCZI-H	Inverter	140-1140	0,89-8,60	2,02-17,10	50
new	FCZ-ASW	On/Off	110-1300	0,65-7,62	1,45-17,02	56
	Omnia UL	On/Off	80-460	0,53-2,79	1,06-5,94	57
	Omnia ULI	Inverter	110-460	0,69-2,79	0,76-5,94	61
	Omnia Radiant	On/Off o inverter with radiant panel	190-460	1,42-2,83	2,89-5,94	65
new	Omnia ULSI_B	Inverter	46-427	0,37-3,00	0,35-5,73	70
Without cabinet; concealed installation with low static pressure						
	FCY	On/Off	148-1050	0,93-5,80	1,05-12,09	74
	FCYI	Inverter	123-799	0,80-4,70	0,90-10,15	85
	FCZ P - PO	On/Off	110-1300	0,65-7,62	1,45-17,02	95
	FCZI P	Inverter	140-1140	0,89-8,60	2,02-17,10	111
	Omnia UL P	On/Off	80-460	0,53-2,79	0,52-5,94	123
	Omnia ULI P	Inverter	110-460	0,69-2,79	0,76-5,94	127
new	Omnia ULSI_P	Inverter	46-427	0,37-3,00	0,35-5,73	130
Without cabinet; duct installation with high static pressure						
	VED 030-340	On/Off with static pressure 21-66Pa	161-775	0,97-5,26	0,90-10,95	134
	VED 030I-340I	Inverter with static pressure 21-66Pa	161-775	0,98-5,27	0,90-10,95	140
	VED 430-741	On/Off with static pressure 24-75Pa	750-2358	4,54-16,10	5,20-31,71	146
	VED 530I-741I	Inverter with static pressure 32-69Pa	1060-2358	6,05-16,08	6,70-31,71	152
	VDCA-D	Fan coil unit for ducted installations	260-2800	0,79-12,81	1,57-16,67	158
	VDCB-D	Fan coil unit for ducted installations	200-3200	0,53-14,32	1,04-18,63	165
	MZC	Plenum with motor-driven dampers for channelling fan coils	-	-	-	173
Cassette; ceiling installation						
	VEC	On/Off with coanda effect	130-613	0,80-4,28	0,95-9,18	177
	VEC-I	Inverter with coanda effect	130-613	0,80-4,28	0,95-9,18	181
	FCL	On/Off	300-1750	1,14-10,83	1,74-21,75	185
	FCLI	Inverter	300-1750	1,15-10,87	1,10-21,75	192
Wall installation						
	FCW	On/Off	280-1082	1,37-7,00	1,42-14,00	199
	FCW I	Inverter	280-1082	1,37-7,00	1,42-14,00	203
	Ventilcassaforma	Template for recessed installation of fancoils in the wall	-	-	-	206
	Control panels	Range of control panels for fan coils	-	-	-	209
	VMF	Variable Multi Flow system for plant management	-	-	-	213



BIM

Building Information Modeling

3D digital information system

- Easy and intuitive downloading
- RFA (Autodesk Revit Family File) format



DESCRIPTION

Aermec BIM models contain information that is useful in the MEP plant design phase. BIM technology offers multiple advantages such as: greater efficiency and productivity, fewer errors, lower costs, greater interoperability, maximum sharing of information, more timely and consistent control of units, overcoming the inefficiencies and inaccuracies of the design method that traditionally characterises conventional professional practices, allowing for full integration between the design and execution phases. Search and download HVAC products for heating, ventilation and air conditioning. Browse the library of BIM families to select the products to be used in your project.

FEATURES

Aermec BIM models contain the following information:

- Performance in heating and cooling mode data
- Energy data
- Electrical data
- Sound data
- Features of the hydraulic connections
- Construction features
- Dimensional data

COMPATIBILITY

Aermec BIM models are downloadable in rfa (Autodesk Revit Family File) format and on request also in .ifc interchange format to ensure maximum compatibility with all BIM software.

MODELS AVAILABLE

- Fan coils
- Recovery units
- Air treatment units
- Air-to-water chillers and heat pumps
- Freecooling air/water chillers
- Water-to-water chillers and heat pumps
- Multipurpose
- Rooftop

By scanning the QR code below you can access the AERMEC download area where you can select and download the desired unit:



FAN COILS

In this area of climate control, Aermec is real leader:

a major company in Italy and one of the top in Europe.

A leading position gained through long-standing experience that has gained ground year after year. Special attention to detail, quality materials state-of-the-art technology ensure optimal performance with virtually imperceptible noise levels, especially at low speed;

attention paid to dimensions and overall size, comparable to those of standard radiators, to enable installation in all residential and commercial environments;

exclusive design, anticipating trends and in harmony with interior design requirements;

new electronic control panel to enable automatic operation and achieve the most user-friendly climatiseurs to date.

Aermec fancoils boast all these features and more.

FAN COILS

FAN COILS			Air flow rate (m3/h)	Cool. Cap. (kW)	Heat. Cap. (kW)	Page	
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	FCZ-ASW	On/Off	110-1300	0,65-7,62	1,45-17,02	56	
new	Omnia UL	On/Off	80-460	0,53-2,79	1,06-5,94	57	
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	Omnia Radiant	On/Off o inverter with radiant panel		190-460	1,42-2,83	2,89-5,94	65
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FCZ

Fan coil for universal and floor installation

Cooling capacity 0,65 ÷ 7,62 kW
Heating capacity 1,45 ÷ 17,02 kW

- **Very quiet**
- **Touch controller mounted on-board.**
allows remote control with smart devices



DESCRIPTION

fan coil can be installed in any 2/4 pipe system and operates with any heat generator even at low temperatures, and thanks to varied versions and settings, it is easy to pick the ideal solution for any need.

FEATURES

Case

Metallic micro-perforated cabinet with rustproofing polyester paint RAL 9003. Head with plastic air distribution grille RAL 7047.

Depending on the version, the distribution grille may be adjustable.

Ventilation group

Consisting of double suction centrifugal fans that are particularly silent, statically and dynamically balanced, and directly coupled with the motor shaft.

The motor is wired for single phase and has three speeds, with capacitor. The motor is fitted on sealed for life bearings and is secured on anti-vibration and self-lubricating mountings.

Extractable shrouds for easy, effective cleaning

Finned pack heat exchanger

With copper pipes and aluminium louvers, the standard or oversized heat exchanger and the possible secondary heat exchanger have female gas water connections on the left side and the manifolds have air vents.

The coil is not suitable for use in corrosive atmosphere or in environments where aluminium may be subject to corrosion.

Reversibility of the water connections during installation only for units with a standard or boosted main heat exchanger, or standard with BV accessory. Not reversible in all other configurations. In any case, units with the coil water connections on the right are available at the time of ordering.

Condensate drip

Provided standard in plastic and fixed to the interior structure; with external condensate discharge.

Air filter

Air filter class Coarse 25% for all versions easy to pull out and clean.

In the APC version, air purification is guaranteed by the Cold Plasma purifier.

The purifier is able to reduce pollutants, decomposing their molecules using electrical charges, causing the water molecules in the air to split into positive and negative ions. These ions neutralise the molecules in the gaseous pollutants, obtaining products normally present in clean air. The device is able to eliminate 90% of the bacteria. The result is clean, ionized air, free of foul odours.

VERSIONS

A High, with fixed air distribution grille and built-in command

ACT High, with air distribution grille and electronic thermostat

AF High, without built-in command but with front intake

APC High, with air distribution grille, electronic thermostat and Cold Plasma purifier

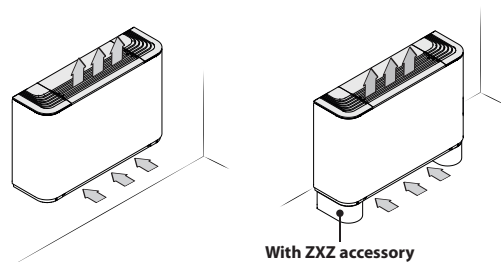
AS High, with air distribution grille without built-in command

U Universal, with adjustable air distribution grille but without built-in thermostat

UA Universal, with fixed air distribution grille but without built-in thermostat

UF Universal, with adjustable air distribution grille but without built-in thermostat and with front intake grille

Versions with fixed grille (high cabinet)



With ZXZ accessory

FCZ_A

- With built-in selector.

FCZ_AS

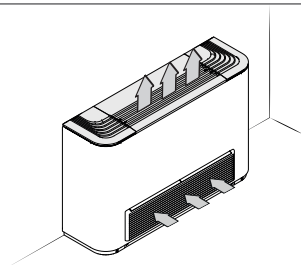
- Compatibility with VMF system.
- Without installed switch

FCZ_ACT

- With electronic thermostat for 2-pipe systems only.

FCZ_APC

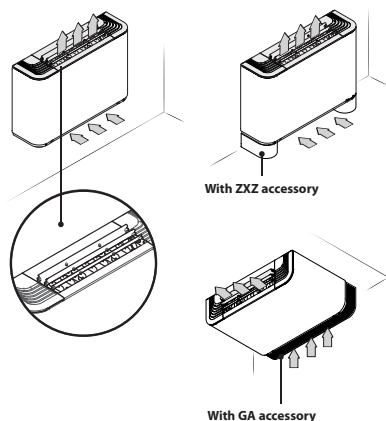
- With electronic thermostat for 2-pipe systems only.
- Cold Plasma purifier



FCZ_AF

- Without installed switch
- Compatibility with VMF system.
- Front intake grille.

Versions with adjustable and fixed grille (universal)



With ZXZ accessory

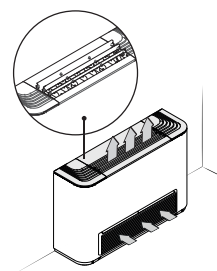
With GA accessory

FCZ_U

- Compatibility with VMF system.
- Without installed switch
- Distribution grille with adjustable louvers. Sizes 1, 2 and 3 have a single grille, whereas sizes 4, 5, 6, 7, 8, 9 and 10 have three grilles fully independent of each other. When all the fins have closed, the unit switches off.
- Vertical and horizontal installation for 2-pipe and 4-pipe systems.

FCZ_UA

- Compatibility with VMF system.
- Without installed switch
- Air distribution grille with fixed louvers.
- Vertical and horizontal installation for 2-pipe and 4-pipe systems.



FCZ_UF

- Compatibility with VMF system.
- Without installed switch
- Air delivery grille with adjustable louvers.
- Front intake grille.

GUIDE TO SELECTING THE POSSIBLE CONFIGURATIONS

Field	Description
1,2,3	FCZ
4	Size 1, 2, 3, 4, 5, 6, 7, 8, 9, 10
5	main heat exchanger
0	Standard
5	Oversized
6	Secondary heat exchanger
0	Without exchanger
1	Standard
2	Oversized
7	Version
	Only vertical installation.
A	High, with fixed air distribution grille and built-in command
ACT	High, with air distribution grille and electronic thermostat
AF	High, without built-in command but with front intake
APC	High, with air distribution grille, electronic thermostat and Cold Plasma purifier
AS	Free standing without installed switch
	Vertical and horizontal installation.
U	Universal, with adjustable air distribution grille but without built-in thermostat
UA	Universal, with fixed air distribution grille but without built-in thermostat
UF	Universal, with adjustable air distribution grille but without built-in thermostat and with front intake grille

SIZE AVAILABLE FOR VERSION

Size	100	101	102	150	200	201	202	250	300	301	302	350	400	401	402	450	500	501	502	550
Versions produced (by size)																				
Versions available (by size)	A,AS,U,UA	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	ACT,APC	*	-	-	*	*	-	-	*	*	-	-	*	*	-	*	*	-	-	*
	AF,UF	*	-	-	*	*	-	-	*	*	-	-	*	*	-	*	*	-	-	*
Size	600	601	602	650	700	701	702	750	800	801	802	850	900	901	950	1000	1001			
Versions produced (by size)																				
Versions available (by size)	A,AS,U,UA	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*			
	ACT,APC	*	-	-	*	*	-	-	*	*	-	-	*	*	-	*	*	-	-	
	AF,UF	-	-	-	-	-	-	-	-	-	-	-	*	-	*	*	-	-		

ACCESSORIES

Control panels

AER503IR: Flush-mounting thermostat with backlit display, capacitive keypad and infrared receiver, for controlling both brushless fan coils and those with an asynchronous motor. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices (Cold Plasma and germicidal lamp), with radiant plate or with FCZ-D twin delivery (Dualjet). In addition, it can control systems with radiant panels or mixed (fan coil and radiant floor) systems. Being equipped with an infrared receiver, it can, in turn, be controlled by the VMF-IR remote control.

DSKT: Thermostat with an easy-to-read light display that provides clear information on room temperature, programming settings and more. Thanks to the ergonomic ring nut switch, adjusting the desired temperature is very easy. The knob allows precise and immediate adjustments, offering a classic but highly effective control mode. Not only functional, but also aesthetically pleasing. Our thermostat features a modern, compact design that fits perfectly in any environment, adding a touch of style to your home or office.

PX2Z: On-board electromechanical switch.

SA5: air probe kit (L = 15 m) with probe-locking cable grommet.

SIT3: Thermostat Interface Card allowing the creation of a network of fan coils (max. 10) commanded by a central control panel (selector or thermostat). Commands the 3 fan speeds and must be installed on each fan coil within the network; receives the commands from the selector or the SIT5 card. In case you decide to install Aermec thermostats and current absorbed by the unit exceeds 0.7 A, you're obliged to include SIT3 accessory.

SIT5: Thermostat Interface Card allowing the creation of a network of fan coils (max. 10) commanded by a central control panel. Commands the 3 fan speeds and up to 2 valves (four pipe systems); sends the thermostat's commands to the fan coil network.

SW3: Water probe (L = 2.5 m) for controlling the minimum and maximum and to allow automatic seasonal switching for electronic thermostats fitted with water side changeover.

SW5: water probe kit (L = 15m) with probe-holder connection point, fixing clip and probe-holder from heat exchanger.

T-TOUCH: Touch control on board the machine, for controlling fan coils with asynchronous motors. In 2-pipe systems, it can control standard fan coils or those equipped with an electric heater, with air purifying devices or with FCZ-D twin delivery (Dualjet). In 4-pipe systems, only standard fan coils.

TX: Wall-mounting thermostat for controlling either brushless fan coils or those with asynchronous motors for 2/4 pipe. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices, radiant plate or FCZ-D twin delivery (Dualjet).

TXB: Wall-mounting thermostat for controlling either brushless fan coils or those with asynchronous motors for 2/4 pipe. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices, radiant plate or FCZ-D twin delivery (Dualjet).

WMT10: Electronic thermostat, white, with thermostated or continuous ventilation.

WMT16: Electronic thermostat with thermostated ventilation.

WMT16CV: Electronic thermostat with continuous ventilation.

AerSuite

The AerSuite application is used to remotely control the DI24 user interface, with VMF-E19/VMF-E19I thermostats, using Smart Devices with iOS and Android operating systems.

This is an application for Smartphones and Tablets with which the user can access and control the system operation remotely.

For more information about the use of the application and the available functions, refer to the respective documentation on the website.



VMF system

DI24: Flush-mounted interface (503 box) with 2.4" touch screen display to be combined with VMF-E19, VMF-E19I accessories. It allows you to regulate and monitor the temperature inside rooms precisely and on time; in addition to accessing and interacting with your system's operating information, parameters and alarms, it allows you to set time slots. Thanks to its Wi-Fi connection, DI24 in combination with the AerSuite APP (available for Android and iOS) can also be remotely controlled. All programming and most functions are done in a simple and intuitive way using the APP. To allow for customization of the interface so that it seamlessly integrates with the style of any home, DI24 is compatible with switch plates from major brands available on the market. For more information, please refer to our documentation. However, a switch plate with its graphite gray support, DI24CP, is also available as a separate accessory in our catalog.

VMF-E19: Thermostat to be secured to the side of the fan coil, fitted as standard with an air probe and a water probe.

VMF-E2Z: User interface on the machine, to be combined with the VMF-E19 and VMF-E19I accessory.

VMF-E3: Wall mounted user interface, to be combined with accessories VMF-E19, VMF-E19I, with grids GLF_N/M and GLL_N, can be controlled with VMF-IR control.

VMF-E4DX: Wall-mounted user interface. Grey front panel PANTONE 425C (METAL).

VMF-E4X: Wall-mounted user interface. Light grey front panel PANTONE COOL GRAY 1C.

VMF-IR: User interface compatible with the AER503IR, VMF-E3 thermostat and with all the grids of cassettes equipped with the infrared receiver compatible with the VMF system.

VMF-SW: Water probe (L = 2.5m) used if required in place of the standard unit supplied with the VMF-E19 and VMF-E19I thermostats for mounting it upstream of the valve.

VMF-SW1: Additional water probe (L = 2.5m) to be used if required for 4-pipe systems with the VMF-E19 and VMF-E19I thermostats for maximum control in the cold range

VMHI: The VMHI panel can be used as a user interface for VMF-E19/E19I thermostats, GLFxN/M or GLLxN grids, or as an interface for the MZC system. What determines the function to be performed by the user interface is determined by its correct parametrisation and by following the electrical connections between interface and thermostat or interface and plenum.

Water valves

VCZ_X: 3-way valve kit for single-coil fan coil, RH connections, (VCZ_X4R) or LH (VCZ_X4L) for 4-pipe systems. With totally separate "heating" and "cooling" circuits. This kit consists of two 3-way insulated valves and four connections, complete with electrothermal actuators, insulating shells for the valves, and the relative hydraulic couplings. X4L version for fan coils

with LH connections, and X4R for fan coils with RH connections. 230V~50Hz power supply.

VCZ: 3-way motorised valve kit for the main coil. The kit is made up of a valve with its insulating shell, actuator and relative hydraulic fittings. It can be installed on fan coils with both right and left connections. If the valve is combined with the BCZ5 or BCZ6 condensate drain pan, to ensure a better housing it is possible to remove the insulating shell.

VCF44 - 45 - for secondary heat exchanger: The 3-way motorised valve kit for the secondary coil heat only. The kit consists of a valve with its insulating shell, actuator and relevant water fittings; it is suitable to be installed on the fan coils with right and left water connections.

VCZD: 2-way motorised valve kit. The kit consists of a valve, an actuator and the relative pipe fittings. It can be installed on fan coils with both right and left connections.

VJP: Control and balancing combination valve for 2 and 4 pipe systems to install outside the unit, supplied without fittings and hydraulic components.

The valve, which can guarantee a constant water flow rate in the terminal, within its operating range.

(Heating only) additional coil

BV: Hot water heat exchanger with 1 row.

RX: Armoured electric coil with safety thermostat.

Installation accessories

PCZ: Metal panel for the unit rear closing. SPCZ brackets are necessary to fix floor standing fan coils.

GA: Lower intake grille for encapsulated fan coils. Can also be used in wall-mounted or floor installations, the FIKIT accessory is needed only in the case of floor installation.

FIKIT: Structural bracket in floor installation.

DSCZ4: Condensate drainage device.

BCZ: Condensate drip. If the valve is paired with the BCZ5 or BCZ6 condensate drip tray, the insulating shell can be removed to ensure better housing.

AMP: Wall mounting kit

ACCESSORIES COMPATIBILITY

Control panels

Model	Ver	100	101	102	150	200	201	202	250
AERS03IR (1)	AF,UF	*			*	*			*
	AS,U,UA	*	*	*	*	*	*	*	*
DSKT	AS	*	*	*	*	*	*	*	*
PX2Z	AF,UF	*			*	*			*
	AS,U	*	*	*	*	*	*	*	*
SAS (2)	AF,UF	*			*	*			*
	AS,U,UA	*	*	*	*	*	*	*	*
SIT3 (3)	AS,U,UA	*	*	*	*	*	*	*	*
SIT5 (4)	AS,U,UA	*	*	*	*	*	*	*	*
SW3 (2)	AF,AS,UF	*			*	*			*
	U,UA	*	*	*	*	*	*	*	*
SW5 (2)	AF,UF	*			*	*			*
	AS,U,UA	*	*	*	*	*	*	*	*
T-TOUCH (5)	AF,UF	*			*	*			*
	AS,U	*	*	*	*	*	*	*	*
TX (6)	AF,UF	*			*	*			*
	AS,U,UA	*	*	*	*	*	*	*	*
TXB (5)	AF,UF	*			*	*			*
	AS,U,UA	*	*	*	*	*	*	*	*
WMT10 (6)	AF,UF	*			*	*			*
	AS,U,UA	*	*	*	*	*	*	*	*
WMT16 (6)	AF,AS,U,UA,UF	*			*	*			*
WMT16CV (6)	AF,UF	*			*	*			*
	AS,U	*	*	*	*	*	*	*	*

Model	Ver	300	301	302	350	400	401	402	450
AERS03IR (1)	AF,UF	*			*	*			*
	AS,U,UA	*	*	*	*	*	*	*	*
DSKT	AS	*	*	*	*	*	*	*	*
PX2Z	AF,UF	*			*	*			*
	AS,U	*	*	*	*	*	*	*	*
SAS (2)	AF,UF	*			*	*			*
	AS,U,UA	*	*	*	*	*	*	*	*
SIT3 (3)	AS,U,UA	*	*	*	*	*	*	*	*
SIT5 (4)	AS,U,UA	*	*	*	*	*	*	*	*
SW3 (2)	AF,AS,UF	*			*	*			*
	U,UA	*	*	*	*	*	*	*	*
SW5 (2)	AF,UF	*			*	*			*
	AS,U,UA	*	*	*	*	*	*	*	*
T-TOUCH (5)	AF,UF	*			*	*			*
	AS,U	*	*	*	*	*	*	*	*
TX (6)	AF,UF	*			*	*			*
	AS,U,UA	*	*	*	*	*	*	*	*
TXB (5)	AF,UF	*			*	*			*
	AS,U,UA	*	*	*	*	*	*	*	*
WMT10 (6)	AF,UF	*			*	*			*
	AS,U,UA	*	*	*	*	*	*	*	*
WMT16 (6)	AF,AS,U,UA,UF	*			*	*			*
WMT16CV (6)	AF,UF	*			*	*			*
	AS,U	*	*	*	*	*	*	*	*

Model	Ver	500	501	502	550	600	601	602	650
AERS03IR (1)	AF,UF	*			*				
	AS,U,UA	*	*	*	*	*	*	*	*
DSKT	AS	*	*	*	*	*	*	*	*
PX2Z	AF,UF	*			*				
	AS,U	*	*	*	*	*	*	*	*
SAS (2)	AF,UF	*			*				
	AS,U,UA	*	*	*	*	*	*	*	*
SIT3 (3)	AS,U,UA	*	*	*	*	*	*	*	*
SIT5 (4)	AS,U,UA	*	*	*	*	*	*	*	*
SW3 (2)	AF,UF	*			*				
	AS	*			*	*	*	*	*
	U,UA	*	*	*	*	*	*	*	*
SW5 (2)	AF,UF	*			*				
	AS,U,UA	*	*	*	*	*	*	*	*
T-TOUCH (5)	AF,UF	*			*				
	AS,U	*	*	*	*	*	*	*	*
TX (6)	AF,UF	*			*				
	AS,U,UA	*	*	*	*	*	*	*	*
TXB (5)	AF,UF	*			*				
	AS,U,UA	*	*	*	*	*	*	*	*
WMT10 (6)	AF,UF	*			*				
	AS,U,UA	*	*	*	*	*	*	*	*
WMT16 (6)	AF,UF	*			*				
	AS,U,UA	*			*	*			*
WMT16CV (6)	AF,UF	*			*				
	AS,U	*	*	*	*	*	*	*	*

Model	Ver	700	701	702	750	800	801	802	850
AERS03IR (1)	AS,U,UA	*	*	*	*	*	*	*	*
DSKT	AS	*	*	*	*	*	*	*	*
PX2Z	AS,U	*	*	*	*	*	*	*	*
SAS (2)	AS,U,UA	*	*	*	*	*	*	*	*
SIT3 (3)	AS,U,UA	*	*	*	*	*	*	*	*
SIT5 (4)	AS,U,UA	*	*	*	*	*	*	*	*
SW3 (2)	AS,U,UA	*	*	*	*	*	*	*	*
SW5 (2)	AS,U,UA	*	*	*	*	*	*	*	*
T-TOUCH (5)	AS,U	*	*	*	*	*	*	*	*
TX (6)	AS,U,UA	*	*	*	*	*	*	*	*
TXB (5)	AS,U,UA	*	*	*	*	*	*	*	*
WMT10 (6)	AS,U,UA	*	*	*	*	*	*	*	*
WMT16 (6)	AS,U,UA	*			*	*			*
WMT16CV (6)	AS,U	*	*	*	*	*	*	*	*

Model	Ver	900	901	950	1000	1001
AERS03IR (1)	AF,UF			*	*	
	AS,U,UA	*	*	*	*	*
DSKT	AS	*	*	*	*	*
PX2Z	AF,UF				*	
	AS,U	*	*	*	*	*
SAS (2)	AF,UF			*	*	
	AS,U,UA	*	*	*	*	*
SIT3 (3)	AF,UF				*	
	AS,U,UA	*	*	*	*	*
SIT5 (4)	AF,UF				*	
	AS,U,UA	*	*	*	*	*
SW3 (2)	AF,UF			*	*	
	AS	*	*	*	*	
	U,UA	*	*	*	*	*
SW5 (2)	AF,UF			*	*	
	AS,U,UA	*	*	*	*	*
T-TOUCH (5)	AF,UF	*		*	*	
	AS,U	*	*	*	*	*
TX (6)	AF,UF			*	*	
	AS,U,UA	*	*	*	*	*
TXB (5)	AF,UF	*		*	*	
	AS,U,UA	*	*	*	*	*
WMT10 (6)	AF,UF	*		*	*	
	AS,U,UA	*	*	*	*	*
WMT16 (6)	AF,AS,U,UA,UF	*		*	*	

Model	Ver	900	901	950	1000	1001
WMT16CV (6)	AF,UF	*		*	*	
	AS,U	*	*	*	*	*

(1) Wall-mount installation.

(2) Probe for AER503IR-TX thermostats, if fitted.

(3) Cards for AER503IR-TX thermostats, if present, to be installed if the unit absorption exceeds 0,7 Ampere.

(4) Probe for AER503IR-TX thermostats, if fitted.

(5) Installation on the fan coil.

(6) Wall-mounting. If the unit intake exceeds 0.7A, or several units need to be managed with a single thermostat, board SIT3 and/or SIT5 is required.

VMF system

For more information about VMF system, refer to the dedicated documentation.

VMF system

Model	Ver	100	101	102	150	200	201	202	250	300	301
DI24	AF,AS,U,UA,UF	*			*	*			*	*	
	AF,UF	*			*	*			*	*	
VMF-E19 (1)	AS,U,UA	*	*	*	*	*	*	*	*	*	*
	AF,UF	*			*	*			*	*	
VMF-E2Z	AS,U,UA	*	*	*	*	*	*	*	*	*	*
	AF,UF	*			*	*			*	*	
VMF-E3	U,UA	*	*	*	*	*	*	*	*	*	*
	AF,UF	*			*	*			*	*	
VMF-E4DX	AS,U,UA	*	*	*	*	*	*	*	*	*	*
	AF,UF	*			*	*			*	*	
VMF-E4X	AS,U,UA	*	*	*	*	*	*	*	*	*	*
	AF,UF	*			*	*			*	*	
VMF-IR	U,UA	*	*	*	*	*	*	*	*	*	*
	AF,UF	*			*	*			*	*	
VMF-SW	AS,U	*	*	*	*	*	*	*	*	*	*
	AF,UF	*			*	*			*	*	
VMF-SW1	AS,U	*	*	*	*	*	*	*	*	*	*
	AF,UF	*			*	*			*	*	
VMHI	AS,U,UA	*	*	*	*	*	*	*	*	*	*
	AF,UF	*			*	*			*	*	

Model	Ver	302	350	400	401	402	450	500	501	502	550
DI24	AF,AS,U,UA,UF		*	*			*	*			*
	AF,UF		*	*			*	*			*
VMF-E19 (1)	AS,U,UA	*	*	*	*	*	*	*	*	*	*
	AF,UF	*			*	*			*	*	
VMF-E2Z	AS,U,UA	*	*	*	*	*	*	*	*	*	*
	AF,UF	*			*	*			*	*	
VMF-E3	U,UA	*	*	*	*	*	*	*	*	*	*
	AF,UF	*			*	*			*	*	
VMF-E4DX	AS,U,UA	*	*	*	*	*	*	*	*	*	*
	AF,UF	*			*	*			*	*	
VMF-E4X	AS,U,UA	*	*	*	*	*	*	*	*	*	*
	AF,UF	*			*	*			*	*	
VMF-IR	U,UA	*	*	*	*	*	*	*	*	*	*
	AF,UF	*			*	*			*	*	
VMF-SW	AS,U	*	*	*	*	*	*	*	*	*	*
	AF,UF	*			*	*			*	*	
VMF-SW1	AS,U	*	*	*	*	*	*	*	*	*	*
	AF,UF	*			*	*			*	*	
VMHI	AS,U,UA	*	*	*	*	*	*	*	*	*	*
	AF,UF	*			*	*			*	*	

Model	Ver	600	601	602	650	700	701	702	750	800	801
DI24	AF,AS,U,UA,UF	*			*	*			*	*	
	AS,UA	*	*	*	*	*	*	*	*	*	*
VMF-E19 (1)	U	*	*	*	*	*	*	*	*	*	*
	AS,UA	*	*	*	*	*	*	*	*	*	*
VMF-E2Z	U	*	*	*	*	*	*	*	*	*	*
	AF,UF	*			*	*			*	*	
VMF-E3	U,UA	*	*	*	*	*	*	*	*	*	*
	AS,UA	*	*	*	*	*	*	*	*	*	*
VMF-E4DX	U	*	*	*	*	*	*	*	*	*	*
	AS,UA	*	*	*	*	*	*	*	*	*	*
VMF-E4X	U	*	*	*	*	*	*	*	*	*	*
	AF,UF	*			*	*			*	*	
VMF-IR	U,UA	*	*	*	*	*	*	*	*	*	*
	AS	*	*	*	*	*	*	*	*	*	*
VMF-SW	U	*	*	*	*	*	*	*	*	*	*
	AS	*	*	*	*	*	*	*	*	*	*
VMF-SW1	U	*	*	*	*	*	*	*	*	*	*
	AS	*	*	*	*	*	*	*	*	*	*

Model	Ver	600	601	602	650	700	701	702	750	800	801
VMHI	AS,UA	*	*	*	*	*	*	*	*	*	*
	U		*	*			*	*			*
Model	Ver	802	850	900	901	950	1000	1001			
DI24	AF,AS,U,UA,UF		*	*		*	*				
VMF-E19 (1)	AF,UF					*					
	AS,UA	*	*	*	*	*	*	*			
	U	*		*	*	*	*	*	*	*	
VMF-E2Z	AF,UF					*					
	AS,UA	*	*	*	*	*	*	*			
	U	*		*	*	*	*	*	*	*	
VMF-E3	AF		*	*		*					
	U,UA	*	*	*	*	*	*	*			
	UF		*	*		*	*				
VMF-E4DX	AF,UF					*					
	AS,UA	*	*	*	*	*	*	*			
	U	*		*	*	*	*	*	*	*	
VMF-E4X	AF,UF					*					
	AS,UA	*	*	*	*	*	*	*			
	U	*		*	*	*	*	*	*	*	
VMF-IR	AF		*	*		*					
	U,UA	*	*	*	*	*	*	*			
	UF		*	*		*	*				
VMF-SW	AF,UF					*					
	AS	*	*	*	*	*	*	*			
	U	*		*	*	*	*	*	*	*	
VMF-SW1	AF,UF					*					
	AS	*	*	*	*	*	*	*			
	U	*		*	*	*	*	*	*	*	
VMHI	AF,UF					*					
	AS,UA	*	*	*	*	*	*	*			
	U	*		*	*	*	*	*	*	*	

(1) Also the accessory VMF-SIT3V is mandatory if the unit exceeds 0.7 Amperes.

Water valves

3 way valve kit

	100	101	102	150	200	201	202	250	300	301	302	350	400	401	402	450
Main coil	VCZ41	VCZ41	VCZ41	VCZ41	VCZ41	VCZ41	VCZ41	VCZ41	VCZ42	VCZ42	VCZ42	VCZ42	VCZ42	VCZ42	VCZ42	VCZ42
	VCZ4124	VCZ4124	VCZ4124	VCZ4124	VCZ4124	VCZ4124	VCZ4124	VCZ4124	VCZ4224	VCZ4224	VCZ4224	VCZ4224	VCZ4224	VCZ4224	VCZ4224	VCZ4224
Secondary coil	-	VCF44	VCF44	-	-	VCF44	VCF44	-	-	VCF44	VCF44	-	-	VCF44	VCF44	-
	-	VCF4424	VCF4424	-	-	VCF4424	VCF4424	-	-	VCF4424	VCF4424	-	-	VCF4424	VCF4424	-
Additional coil "BV"	VCF44	-	-	-	VCF44	-	-	-	VCF44	-	-	-	VCF44	-	-	-
	VCF4424	-	-	-	VCF4424	-	-	-	VCF4424	-	-	-	VCF4424	-	-	-

	500	501	502	550	600	601	602	650	700	701	702	750	800	801	802	850
Main coil	VCZ42	VCZ42	VCZ42	VCZ42	VCZ42	VCZ42	VCZ42	VCZ42	VCZ42	VCZ42	VCZ42	VCZ42	VCZ42	VCZ42	VCZ42	VCZ42
	VCZ4224	VCZ4224	VCZ4224	VCZ4224	VCZ4224	VCZ4224	VCZ4224	VCZ4224	VCZ4224	VCZ4224	VCZ4224	VCZ4224	VCZ4224	VCZ4224	VCZ4224	VCZ4224
Secondary coil	-	VCF44	VCF44	-	-	VCF44	VCF44	-	-	VCF44	VCF44	-	-	VCF44	VCF44	-
	-	VCF4424	VCF4424	-	-	VCF4424	VCF4424	-	-	VCF4424	VCF4424	-	-	VCF4424	VCF4424	-
Additional coil "BV"	VCF44	-	-	-	VCF44	-	-	-	VCF44	-	-	-	VCF44	-	-	-
	VCF4424	-	-	-	VCF4424	-	-	-	VCF4424	-	-	-	VCF4424	-	-	-

	900	901	950	1000	1001
Main coil	VCZ43	VCZ43	VCZ43	VCZ43	VCZ43
	VCZ4324	VCZ4324	VCZ4324	VCZ4324	VCZ4324
Secondary coil	-	VCF45	-	-	VCF45
	-	VCF4524	-	-	VCF4524
Additional coil "BV"	VCF45	-	-	VCF45	-
	VCF4524	-	-	VCF4524	-

2 way valve kit

	100	101	102	150	200	201	202	250	300	301	302	350	400	401	402	450
Main coil	VCZD1	VCZD1	VCZD1	VCZD1	VCZD1	VCZD1	VCZD1	VCZD1	VCZD2	VCZD2	VCZD2	VCZD2	VCZD2	VCZD2	VCZD2	VCZD2
	VCZD124	VCZD124	VCZD124	VCZD124	VCZD124	VCZD124	VCZD124	VCZD124	VCZD224	VCZD224	VCZD224	VCZD224	VCZD224	VCZD224	VCZD224	VCZD224
Secondary coil	-	VCFD4	VCFD4	-	-	VCFD4	VCFD4	-	-	VCFD4	VCFD4	-	-	VCFD4	VCFD4	-
	-	VCFD424	VCFD424	-	-	VCFD424	VCFD424	-	-	VCFD424	VCFD424	-	-	VCFD424	VCFD424	-
Additional coil "BV"	VCFD4	-	-	-	VCFD4	-	-	-	VCFD4	-	-	-	VCFD4	-	-	-
	VCFD424	-	-	-	VCFD424	-	-	-	VCFD424	-	-	-	VCFD424	-	-	-

	500	501	502	550	600	601	602	650	700	701	702	750	800	801	802	850
Main coil	VCZD2	VCZD2	VCZD2	VCZD2	VCZD2	VCZD2	VCZD2	VCZD2	VCZD2	VCZD2	VCZD2	VCZD2	VCZD2	VCZD2	VCZD2	VCZD2
	VCZD224	VCZD224	VCZD224	VCZD224	VCZD224	VCZD224	VCZD224	VCZD224	VCZD224	VCZD224	VCZD224	VCZD224	VCZD224	VCZD224	VCZD224	VCZD224

	100	101	102	150	200	201	202	250	300	301	302	350	400	401	402	450
Secondary coil	-	VCFD4 VCFD424	VCFD4 VCFD424	-	-	VCFD4 VCFD424	VCFD4 VCFD424	-	-	VCFD4 VCFD424	VCFD4 VCFD424	-	-	VCFD4 VCFD424	VCFD4 VCFD424	-
Additional coil "BV"	VCFD4 VCFD424	-	-	-	VCFD4 VCFD424	-	-	-	VCFD4 VCFD424	-	-	-	VCFD4 VCFD424	-	-	-
	900	901	950	1000	1001											
Main coil	VCZD3 VCZD324	VCZD3 VCZD324	VCZD3 VCZD324	VCZD3 VCZD324	VCZD3 VCZD324											
Secondary coil	-	VCFD4 VCFD424	-	-	VCFD4 VCFD424											
Additional coil "BV"	VCFD4 VCFD424	-	-	VCFD4 VCFD424	-											

Valve Kit for 4 pipe systems - Requires a thermostat with valve management

Model	Ver	100	101	102	150	200	201	202	250
VCZ1X4L (1)	AF,AS,U,UA,UF	•			•	•			•
VCZ1X4R (1)	AF,AS,U,UA,UF	•			•	•			•
Model	Ver	300	301	302	350	400	401	402	450
VCZ2X4L (1)	AF,AS,U,UA,UF	•			•	•			•
VCZ2X4R (1)	AF,AS,U,UA,UF	•			•	•			•
Model	Ver	500	501	502	550	600	601	602	650
VCZ2X4L (1)	AF,UF	•			•				
	AS,U,UA	•			•	•			•
VCZ2X4R (1)	AF,UF	•			•				
	AS,U,UA	•			•	•			•
Model	Ver	700	701	702	750	800	801	802	850
VCZ2X4L (1)	AS,U,UA	•			•	•			•
VCZ2X4R (1)	AS,U,UA	•			•	•			•
Model	Ver	900	901	950	1000	1001			
VCZ3X4L (1)	AF,AS,U,UA,UF	•		•	•				
VCZ3X4R (1)	AF,AS,U,UA,UF	•		•	•				

(1) The valves can be combined with the units if there is a control panel for managing them.

Combined Adjustment and Balancing Valve Kit

Model	Ver	100	101	102	150	200	201	202	250
VJP060 (1)	ACT,APC	•			•	•			•
	AS,U,UA	•	•	•	•	•	•	•	•
VJP060M (2)	ACT,APC	•			•	•			•
	AS,U,UA	•	•	•	•	•	•	•	•
Model	Ver	300	301	302	350	400	401	402	450
VJP060 (1)	ACT,APC	•			•				
	AS,U,UA	•	•	•	•				
VJP060M (2)	ACT,APC	•			•				
	AS,U,UA	•	•	•	•				
VJP090 (1)	ACT,APC					•			•
	AS,U,UA					•	•	•	•
VJP090M (2)	ACT,APC					•			•
	AS,U,UA					•	•	•	•
Model	Ver	500	501	502	550	600	601	602	650
VJP090 (1)	ACT,APC	•			•	•			•
	AS,U,UA	•	•	•	•	•	•	•	•
VJP090M (2)	ACT,APC	•			•	•			•
	AS,U,UA	•	•	•	•	•	•	•	•
VJP150 (1)	ACT,APC					•			•
	AS,U,UA					•	•	•	•
VJP150M (2)	ACT,APC					•			•
	AS,U,UA					•	•	•	•
Model	Ver	700	701	702	750	800	801	802	850
VJP150 (1)	ACT,APC	•			•	•			•
	AS,U,UA	•	•	•	•	•	•	•	•
VJP150M (2)	ACT,APC	•			•	•			•
	AS,U,UA	•	•	•	•	•	•	•	•
Model	Ver	900	901	950	1000	1001			
VJP150 (1)	ACT,APC	•		•	•				
	AS,U,UA	•	•	•	•	•	•	•	

Model	Ver	900	901	950	1000	1001
VJP150M (2)	ACT,APC	.		.	.	
	AS,U,UA	.	.	.	.	.

(1) 230V~50Hz

(2) 24V

(Heating only) additional coil

Heating only additional coil

Model	Ver	100	101	102	150	200	201	202	250
BV117 (1)	A,AF,AS,U,UA,UF	.							
BV122 (1)	A,AF,AS,U,UA,UF					.			
Model	Ver	300	301	302	350	400	401	402	450
BV132 (1)	A,AF,AS,U,UA,UF	.							
BV142 (1)	A,AF,AS,U,UA,UF					.			
Model	Ver	500	501	502	550	600	601	602	650
BV142 (1)	A,AF,AS,U,UA,UF	.							
BVZ800 (1)	A,AS,U,UA					.			
Model	Ver	700	701	702	750	800	801	802	850
BVZ800 (1)	A,AS,U,UA	.				.			
Model	Ver	900	901	950	1000	1001			
BV162 (1)	A,AF,AS,U,UA,UF	.			.				

(1) Not available for sizes with oversized main coil.

Electric coil - Requires a thermostat with heater management. Not available for sizes with an oversized main coil.

Model	Ver	100	101	102	150	200	201	202	250
RX17 (1)	AF,AS,U,UA,UF	.							
RX22 (1)	AF,AS,U,UA,UF					.			
Model	Ver	300	301	302	350	400	401	402	450
RX32 (1)	AF,AS,U,UA,UF	.							
RX42 (1)	AF,AS,U,UA,UF					.			
Model	Ver	500	501	502	550	600	601	602	650
RX52 (1)	AF,AS,U,UA,UF	.							
RXZ800 (1)	AS,U,UA					.			
Model	Ver	700	701	702	750	800	801	802	850
RXZ800 (1)	AS,U,UA	.				.			
Model	Ver	900	901	950	1000	1001			
RX62 (1)	AF,AS,U,UA,UF	.			.	.			

(1) Requires a thermostat with heater management. Not available for sizes with an oversized main coil. The PCR1 PCR2 or PCR1V appliance must also be provided depending on the unit.

Installation accessories

Wall mounting kit

Ver	100	101	102	150	200	201	202	250
U, UA	AMP20	AMP20	AMP20	AMP20	AMP20	AMP20	AMP20	AMP20
UF	AMP20	-	-	AMP20	AMP20	-	-	AMP20
Ver	300	301	302	350	400	401	402	450
U, UA	AMP20	AMP20	AMP20	AMP20	AMP20	AMP20	AMP20	AMP20
UF	AMP20	-	-	AMP20	AMP20	-	-	AMP20
Ver	500	501	502	550	600	601	602	650
U, UA	AMP20	AMP20	AMP20	AMP20	AMPZ	AMPZ	AMPZ	AMPZ
UF	AMP20	-	-	AMP20	-	-	-	-

The accessory cannot be fitted on the configurations indicated with -

Ver	700	701	702	750	800	801	802	850
U, UA	AMPZ	AMPZ	AMPZ	AMPZ	AMPZ	AMPZ	AMPZ	AMPZ
Ver	900	901	950	1000	1001			
U, UA	AMPZ	AMPZ	AMPZ	AMPZ	AMPZ			

Condensate recirculation device

Model	Ver	100	101	102	150	200	201	202	250
DSCZ4 (1)	A,AS,U,UA	.	.	.	.	.	.	.	.
	ACT,APC	.			.	.			.
Model	Ver	300	301	302	350	400	401	402	450
DSCZ4 (1)	A,AS,U,UA	.	.	.	.	.	.	.	.
	ACT,APC	.			.	.			.
Model	Ver	500	501	502	550	600	601	602	650
DSCZ4 (1)	A,AS,U,UA	.	.	.	.	.	.	.	.
	ACT,APC	.			.	.			.

Model	Ver	700	701	702	750	800	801	802	850
DSCZ4 (1)	A,AS,U,UA	*	*	*	*	*	*	*	*
	ACT,APC	*			*	*			*
Model	Ver	900	901	950	1000	1001			
DSCZ4 (1)	A,AS,U,UA	*	*	*	*	*			
	ACT,APC	*		*	*	*			

(1) DSCZ4 due to space problems inside the unit, the VCZ1-2-3-4 X4L/R valves cannot be mounted together with the amp/AMPZ accessories, with all the condensate collection trays. With the VMF-E19/E19I thermostats, please contact the head office.

Condensate drip

Model	Ver	100	101	102	150	200	201	202	250
BCZ4 (1)	A,AS,U,UA	*	*	*	*	*	*	*	*
	ACT,APC	*			*	*			*
BCZ5 (2)	A,AS,U,UA	*	*	*	*	*	*	*	*
	ACT,APC	*			*	*			*
Model	Ver	300	301	302	350	400	401	402	450
BCZ4 (1)	A,AS,U,UA	*	*	*	*	*	*	*	*
	ACT,APC	*			*	*			*
BCZ5 (2)	A,AS,U,UA	*	*	*	*	*	*	*	*
	ACT,APC	*			*	*			*
Model	Ver	500	501	502	550	600	601	602	650
BCZ4 (1)	A,AS,U,UA	*	*	*	*	*	*	*	*
	ACT,APC	*			*	*			*
BCZ5 (2)	A,AS,U,UA	*	*	*	*	*	*	*	*
	ACT,APC	*			*	*			*
Model	Ver	700	701	702	750	800	801	802	850
BCZ4 (1)	A,AS,U,UA	*	*	*	*	*	*	*	*
	ACT,APC	*			*	*			*
BCZ5 (2)	A,AS,U,UA	*	*	*	*	*	*	*	*
	ACT,APC	*			*	*			*
Model	Ver	900	901	950	1000	1001			
BCZ4 (1)	A,AS,U,UA	*	*	*	*	*			
	ACT,APC	*		*	*	*			
BCZ6 (2)	A,AS,U,UA	*	*	*	*	*			
	ACT,APC	*		*	*	*			

(1) For vertical installation.

(2) For horizontal installation.

Panel closing the rear of the unit

Model	Ver	100	101	102	150	200	201	202	250
PCZ100	A,AS,U,UA	*	*	*	*				
	ACT,APC	*			*				
PCZ200	A,AS,U,UA					*	*	*	*
	ACT,APC					*			*
Model	Ver	300	301	302	350	400	401	402	450
PCZ300	A,AS,U,UA	*	*	*	*				
	ACT,APC	*			*				
PCZ500	A,AS,U,UA					*	*	*	*
	ACT,APC					*			*
Model	Ver	500	501	502	550	600	601	602	650
PCZ500	A,AS,U,UA	*	*	*	*				
	ACT,APC	*			*				
PCZ800	A,AS,U,UA					*	*	*	*
	ACT,APC					*			*
Model	Ver	700	701	702	750	800	801	802	850
PCZ800	A,AS,U,UA	*	*	*	*	*	*	*	*
	ACT,APC	*			*	*			*
Model	Ver	900	901	950	1000	1001			
PCZ1000	A,AS,U,UA	*	*	*	*	*			
	ACT,APC	*		*	*	*			

Lower intake grille

Model	Ver	100	101	102	150	200	201	202	250
GA100	U,UA	*	*	*	*				
GA200	U,UA					*	*	*	*
Model	Ver	300	301	302	350	400	401	402	450
GA300	U,UA	*	*	*	*				
GA500	U,UA					*	*	*	*

Model	Ver	500	501	502	550	600	601	602	650
GA500	U,UA	*	*	*	*				
GA800	U,UA					*	*	*	*
Model	Ver	700	701	702	750	800	801	802	850
GA800	U,UA	*	*	*	*	*	*	*	*
Model	Ver	900	901	950	1000	1001			
GA800	U,UA	*	*	*	*	*			

Supports to be combined with the ornamental grille (GA) for floor installation of the fan coil

Model	Ver	100	101	102	150	200	201	202	250
FIKIT100	A,AS,U,UA	*	*	*	*				
	ACT,AF,APC,UF	*			*				
FIKIT200	A,AS,U,UA					*	*	*	*
	ACT,AF,APC,UF					*			*
Model	Ver	300	301	302	350	400	401	402	450
FIKIT300	A,AS,U,UA	*	*	*	*				
	ACT,AF,APC,UF	*			*				
FIKIT500	A,AS,U,UA					*	*	*	*
	ACT,AF,APC,UF					*			*
Model	Ver	500	501	502	550	600	601	602	650
FIKIT500	A,AS,U,UA	*	*	*	*				
	ACT,AF,APC,UF	*			*				
FIKIT800	A,AS,U,UA					*	*	*	*
	ACT,APC					*			*
Model	Ver	700	701	702	750	800	801	802	850
FIKIT800	ACT,APC	*			*	*			*
	U,UA	*	*	*	*	*	*	*	*
Model	Ver	900	901	950	1000	1001			
FIKIT800	A,AS,U,UA	*	*	*	*	*			*
	ACT,AF,APC,UF	*			*	*			

Pair of stylish structural feet

Model	Ver	100	101	102	150	200	201	202	250
ZXZ	A,AS,U,UA	*	*	*	*	*	*	*	*
	ACT,APC	*			*	*			*
Model	Ver	300	301	302	350	400	401	402	450
ZXZ	A,AS,U,UA	*	*	*	*	*	*	*	*
	ACT,APC	*			*	*			*
Model	Ver	500	501	502	550	600	601	602	650
ZXZ	A,AS,U,UA	*	*	*	*	*	*	*	*
	ACT,APC	*			*	*			*
Model	Ver	700	701	702	750	800	801	802	850
ZXZ	A,AS,U,UA	*	*	*	*	*	*	*	*
	ACT,APC	*			*	*			*
Model	Ver	900	901	950	1000	1001			
ZXZ	A,AS,U,UA	*	*	*	*	*			*
	ACT,APC	*			*	*			

PERFORMANCE SPECIFICATIONS

2-pipe

	FCZ100			FCZ150			FCZ200			FCZ250			FCZ300			FCZ350			FCZ400			FCZ450			FCZ500			FCZ550								
	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3						
	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H						
Heating performance 70 °C / 60 °C (1)																																				
Heating capacity	kW			1,45	2,00	2,40	1,55	2,19	2,65	2,02	2,95	3,70	2,20	3,18	4,05	3,47	4,46	5,50	3,77	4,92	6,15	4,32	5,74	7,15	4,57	6,29	7,82	5,27	7,31	8,50	5,82	8,34	9,75			
Water flow rate system side	l/h			125	172	206	136	192	232	177	258	324	193	278	355	304	391	482	330	431	539	379	503	627	400	551	685	462	641	745	510	731	855			
Pressure drop system side	kPa			4	7	9	5	9	12	6	12	18	7	15	23	7	12	18	8	14	20	9	16	24	6	11	16	12	21	28	10	20	26			
Heating performance 45 °C / 40 °C (2)																																				
Heating capacity	kW			0,72	0,99	1,19	0,77	1,09	1,31	1,00	1,46	1,84	1,09	1,58	2,01	1,72	2,21	2,73	1,87	2,44	3,06	2,14	2,85	3,55	2,27	3,12	3,88	2,62	3,63	4,22	2,89	4,14	4,85			
Water flow rate system side	l/h			126	173	207	134	189	229	174	254	319	190	274	350	299	385	475	325	425	531	373	495	617	394	543	675	455	631	734	502	720	843			
Pressure drop system side	kPa			4	7	10	5	9	12	6	12	18	8	15	22	8	12	18	8	14	20	10	16	24	6	11	16	12	21	28	10	20	26			
Cooling performance 7 °C / 12 °C																																				
Cooling capacity	kW			0,65	0,84	1,00	0,80	1,06	1,27	0,89	1,28	1,60	1,06	1,55	1,94	1,68	2,17	2,65	1,89	2,46	3,02	2,20	2,92	3,60	2,41	3,21	4,03	2,68	3,69	4,25	2,91	4,13	4,79			
Sensible cooling capacity	kW			0,51	0,69	0,83	0,57	0,80	0,97	0,71	1,05	1,33	0,79	1,20	1,52	1,26	1,65	2,04	1,33	1,76	2,18	1,59	2,14	2,67	1,69	2,30	2,90	1,94	2,73	3,18	2,07	2,98	3,49			
Water flow rate system side	l/h			112	144	172	138	182	219	153	221	275	182	267	334	288	374	456	350	460	560	379	503	619	414	552	694	460	634	731	501	711	824			
Pressure drop system side	kPa			4	6	8	6	12	13	6	12	18	8	17	25	8	13	18	11	18	25	10	16	24	9	15	22	13	22	29	12	22	28			
Fan																																				
Type	type			Centrifugal																																
Fan motor	type			Asynchronous																																
Number	no.			1			1			1			1			2			2			2			2			2			2					
Air flow rate	m³/h			110	160	200	110	160	200	140	220	290	140	220	290	260	350	450	260	350	450	330	460	600	330	460	600	400	600	720	400	600	720			
Input power	W			19	29	35	19	29	35	25	29	33	25	29	33	25	33	44	25	33	44	30	43	57	30	43	57	38	52	76	38	52	76			
Electrical wiring				V1	V2	V3	V1	V2	V3	V1	V2	V3	V1	V2	V3	V1	V2	V3	V1	V2	V3	V1	V2	V3	V1	V2	V3	V1	V2	V3	V1	V2	V3			
Fan coil sound data (3)																																				
Sound power level	dB(A)			31,0	38,0	45,0	31,0	38,0	45,0	35,0	46,0	51,0	35,0	46,0	51,0	34,0	41,0	48,0	34,0	41,0	48,0	37,0	44,0	51,0	37,0	44,0	51,0	42,0	51,0	56,0	42,0	51,0	56,0			
Sound pressure level	dB(A)			23,0	30,0	37,0	23,0	30,0	37,0	27,0	38,0	43,0	27,0	38,0	43,0	26,0	33,0	40,0	26,0	33,0	40,0	29,0	36,0	43,0	29,0	36,0	43,0	34,0	43,0	48,0	34,0	43,0	48,0			
Diametre hydraulic fittings																																				
Main heat exchanger	Ø			1/2"			1/2"			1/2"			1/2"			3/4"			3/4"			3/4"			3/4"			3/4"			3/4"			3/4"		
Power supply																																				
230V~50Hz																																				

	FCZ600			FCZ650			FCZ700			FCZ750			FCZ800			FCZ850			FCZ900			FCZ950			FCZ1000								
	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3			
	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H			
Heating performance 70 °C / 60 °C (1)																																	
Heating capacity	kW			6,50	8,10	10,00	7,19	9,15	11,50	8,10	9,80	11,00	9,10	11,30	12,50	9,80	10,80	12,00	11,30	12,35	14,00	10,77	13,35	15,14	11,20	14,42	17,10	12,53	15,24	17,02			
Water flow rate system side	l/h			570	710	877	631	802	1008	710	860	964	798	991	1096	859	947	1052	991	1083	1227	945	1171	1328	982	1264	1500	1101	1337	1493			
Pressure drop system side	kPa			12	18	26	14	21	31	17	24	29	10	15	18	22	27	32	17	20	25	12	17	22	16	24	33	22	32	38			
Heating performance 45 °C / 40 °C (2)																																	
Heating capacity	kW			3,32	4,03	4,97	3,57	4,55	5,72	4,03	4,87	5,47	4,52	5,62	6,21	4,87	5,37	5,97	5,62	6,14	6,96	5,35	6,64	7,53	5,57	7,17	8,50	6,24	7,58	8,46			
Water flow rate system side	l/h			561	699	863	621	790	993	699	846	950	786	975	1079	846	932	1036	975	1066	1209	930	1152	1307	967	1245	1476	1084	1316	1469			
Pressure drop system side	kPa			12	18	26	14	20	31	16	24	29	10	14	18	22	26	32	6	20	25	12	17	22	15	24	33	22	31	38			
Cooling performance 7 °C / 12 °C																																	
Cooling capacity	kW			3,22	3,90	4,65	3,95	4,80	5,67	3,92	4,89	5,50	4,27	5,34	6,14	4,84	5,66	6,10	5,26	6,29	6,91	4,29	5,00	6,91	5,77	7,32	8,60	5,69	6,88	7,62			
Sensible cooling capacity	kW			2,56	3,17	3,92	2,78	3,43	4,12	2,99	3,76	4,30	3,20	4,05	4,72	3,72	4,42	4,83	4,00	4,83	5,36	2,97	3,78	5,68	3,80	4,87	5,78	4,42	5,34	5,53			
Water flow rate system side	l/h			554	671	800	595	825	975	675	841	946	734	918	1056	833	974	1049	904	1082	1189	738	860	1189	992	1259	1479	979	1183	1311			
Pressure drop system side	kPa			14	19	26	15	21	28	16	24	30	10	14	18	20	26	30	14	20	23	10	12	22	15	22	30	22	31	36			
Fan																																	
Type	type			Centrifugal																													
Fan motor	type			Asynchronous																													
Number	no.			3			3			3			3			3			3			3			3			3			3		
Air flow rate	m³/h			520	720	920	520	720	920	700	930	1140	700	930	1140	900	1120	1300	900	1120	1300	700	930	1140	700	930	1140	900	1120	1300			
Input power	W			38	60	91	38	60	91	59	80	106	59	80	106	80	100	131	80	100	131	59	80	106	59	80	106	80	100	131			
Electrical wiring				V1	V2	V3	V1	V2	V3	V1	V2	V3	V1	V2	V3	V1	V2	V3	V1	V2	V3	V1	V2	V3	V1	V2	V3	V1	V2	V3	V1	V2	V3
Fan coil sound data (3)																																	
Sound power level	dB(A)			42,0	51,0	57,0	42,0	51,0	57,0	50,0	57,0	62,0	50,0	57,0	62,0	56,0	61,0	66,0	56,0	61,0	66,0	51,0	57,0	62,0	51,0	57,0	62,0	56,0	61,0	66,0			
Sound pressure level	dB(A)			34,0	43,0	49,0	34,0	43,0	49,0	42,0	49,0	54,0	42,0	49,0	54,0	48,0	53,0	58,0	48,0	53,0	58,0	43,0	49,0	54,0	43,0	49,0	54,0	48,0	53,0	58,0			
Diametre hydraulic fittings																																	
Main heat exchanger	Ø			3/4"																													
Power supply																																	
230V~50Hz																																	

(1) Room air temperature 20 °C d.b.; Water (in/out) 70 °C/60 °C

(2) Room air temperature 20°C d.b.: Water (in/out) 45°C/40°C: EUROVENT

(3) Aermec determines the sound power value on the basis of measurements taken in accordance with standard UNI EN 16583:15, respecting the Eurovent certification.

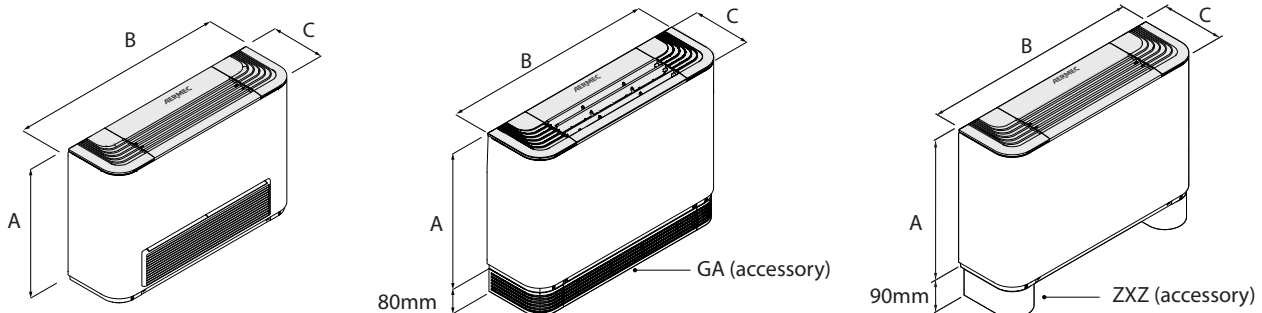
4-pipe

	FCZ101			FCZ201			FCZ301			FCZ401			FCZ501			FCZ601			FCZ701			FCZ801			FCZ901			FCZ1001				
	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3		
	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H		
Heating performance 65 °C / 55 °C (1)																																
Heating capacity	kW		0,75	1,01	1,17	1,02	1,35	1,60	1,80	2,18	2,56	2,21	2,65	3,12	2,59	3,34	3,73	2,96	3,67	4,36	3,66	4,29	4,94	4,20	4,79	5,35	4,73	5,63	5,72	4,85	5,56	6,08
Water flow rate system side	l/h		65	89	102	89	118	140	158	191	224	186	232	273	227	293	327	259	321	381	320	375	437	368	419	467	414	492	501	424	487	532
Pressure drop system side	kPa		2	4	4	4	8	10	16	23	30	4	6	8	6	8	10	8	12	16	11	14	18	16	20	24	8	12	12	10	14	16
Cooling performance 7 °C / 12 °C																																
Cooling capacity	kW		0,65	0,84	1,00	0,89	1,28	1,60	1,68	2,17	2,65	2,20	2,92	3,60	2,68	3,69	4,25	3,22	3,90	4,65	3,92	4,89	5,50	4,84	5,66	6,10	4,29	5,00	6,91	5,69	6,88	7,62
Sensible cooling capacity	kW		0,51	0,69	0,83	0,71	1,05	1,33	1,26	1,65	2,04	1,59	2,14	2,67	1,94	2,73	3,18	2,56	3,17	3,92	2,99	3,76	4,30	3,72	4,42	4,83	2,97	3,78	5,68	4,42	5,34	5,53
Water flow rate system side	l/h		112	144	172	153	221	275	288	374	456	379	503	619	460	634	731	554	671	800	675	841	946	833	974	1049	738	860	1189	979	1183	1311
Pressure drop system side	kPa		4	6	8	6	12	18	8	13	18	10	16	24	13	22	29	14	19	26	16	24	30	20	26	30	10	12	22	22	31	36
Fan																																
Type	type		Centrifugal																													
Fan motor	type		Asynchronous																													
Number	no.		1	1			2			2			2			3			3			3			3			3				
Air flow rate	m³/h		110	160	200	140	220	290	260	350	450	330	460	600	400	600	720	520	720	920	700	930	1140	900	1120	1300	700	930	1140	900	1120	1300
Input power	W		19	29	35	25	29	33	25	33	44	30	43	57	38	52	76	38	60	91	59	80	106	80	100	131	59	80	106	80	100	131
Electrical wiring			V1	V2	V3	V1	V2	V3	V1	V2	V3	V1	V2	V3	V1	V2	V3	V1	V2	V3	V1	V2	V3	V1	V2	V3	V1	V2	V3	V1	V2	V3
Fan coil sound data (2)																																
Sound power level	dB(A)		31,0	38,0	45,0	35,0	46,0	51,0	34,0	41,0	48,0	37,0	44,0	51,0	42,0	51,0	56,0	42,0	51,0	57,0	50,0	57,0	62,0	56,0	61,0	66,0	51,0	57,0	62,0	56,0	61,0	66,0
Sound pressure level	dB(A)		23,0	30,0	37,0	27,0	38,0	43,0	26,0	33,0	40,0	29,0	36,0	43,0	34,0	43,0	48,0	34,0	43,0	49,0	42,0	49,0	54,0	48,0	53,0	58,0	43,0	49,0	54,0	48,0	53,0	58,0
Diameter hydraulic fittings																																
Main heat exchanger	Ø		1/2"			1/2"			3/4"			3/4"			3/4"			3/4"			3/4"			3/4"			3/4"			3/4"		
Secondary heat exchanger	Ø		1/2"																													
Power supply																																
Power supply			230V~50Hz																													

(1) Room air temperature 20°C d.b.; Water (in/out) 65 °C/55 °C; EUROVENT

(2) Aermec determines the sound power value on the basis of measurements taken in accordance with standard UNI EN 16583:15, respecting the Eurovent certification.

DIMENSIONS



		FCZ100	FCZ101	FCZ102	FCZ150	FCZ200	FCZ201	FCZ202	FCZ250	FCZ300	FCZ301	FCZ302	FCZ350	FCZ400	FCZ401	FCZ402	FCZ450
Dimensions and weights																	
A	mm	486	486	486	486	486	486	486	486	486	486	486	486	486	486	486	486
B	mm	640	640	640	640	750	750	750	750	980	980	980	980	1200	1200	1200	1200
C	mm	220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	220
Empty weight	kg	13	14	14	14	15	15	16	16	17	18	19	19	33	23	23	24
		FCZ500	FCZ501	FCZ502	FCZ550	FCZ600	FCZ601	FCZ602	FCZ650	FCZ700	FCZ701	FCZ702	FCZ750	FCZ800	FCZ801	FCZ802	FCZ850
Dimensions and weights																	
A	mm	486	486	486	486	486	486	486	486	486	486	486	486	486	486	486	486
B	mm	1200	1200	1200	1200	1320	1320	1320	1320	1320	1320	1320	1320	1320	1320	1320	1320
C	mm	220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	220
Empty weight	kg	24	22	23	24	24	29	31	33	29	31	33	33	29	29	31	33
		FCZ900			FCZ901			FCZ950			FCZ1000			FCZ1001			
Dimensions and weights																	
A	mm	591			591			591			591			591			
B	mm	1320			1320			1320			1320			1320			
C	mm	220			220			220			220			220			
Empty weight	kg	34			34			34			34			34			

Aermec reserves the right to make any modifications deemed necessary.
All data is subject to change without notice. Aermec does not assume responsibility or liability for errors or omissions.

Aermec S.p.A.

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FCZI

Fan coil for universal and floor installation

Cooling capacity 0,65 ÷ 7,62 kW
Heating capacity 1,45 ÷ 17,02 kW

- **Very quiet**
- **Touch controller mounted on-board.** allows remote control with smart devices



DESCRIPTION

fan coil can be installed in any 2/4 pipe system and operates with any heat generator even at low temperatures, and thanks to varied versions and settings, it is easy to pick the ideal solution for any need.

FEATURES

Case

Protective metal cabinet with anti-corrosion polyester RAL 9003 paint, whereas the head with the air distribution grille is in RAL 7047 plastic.

Depending on the version, the distribution grille may be adjustable.

Ventilation group

Centrifugal fans in anti-static plastic material with aerofoil profile designed to achieve high airflows and pressures whilst at the same time producing low noise.

Their characteristics permit energy savings compared to conventional fans. They are statically and dynamically balanced and directly coupled to the motor shaft.

The Brushless electric motor with 0-100% continuous speed variation, which allows precise adaptation to the real demands of the internal environment without temperature fluctuations.

The air flow can be continuously changed through a 1-10 V signal, coming from adjustment and control commands Aermec or from independent adjustment systems.

This lowers noise and generates a better response to heat loads and a higher stability in the desired temperature inside the room.

The high efficiency even with low speed, makes it possible to reduce power consumption (more than 50% less than fan coils with traditional motors).

The plastic augers are extractable for easy and efficient cleaning.

Finned pack heat exchanger

With copper pipes and aluminium louvers, the standard or oversized heat exchanger and the possible secondary heat exchanger have female gas water connections on the left side and the manifolds have air vents.

The coil is not suitable for use in corrosive atmosphere or in environments where aluminium may be subject to corrosion.

Reversibility of the water connections during installation only for units with a standard or boosted main heat exchanger, or standard with BV accessory. Not reversible in all other configurations. In any

case, units with the coil water connections on the right are available at the time of ordering.

Condensate drip

Provided standard in plastic and fixed to the interior structure; with external condensate discharge.

Air filter

Air filter class Coarse 25% for all versions easy to pull out and clean.

Versions

ACT High, with air distribution grille and electronic thermostat

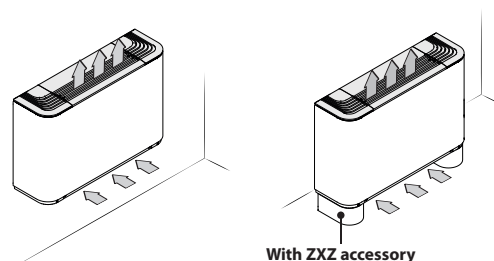
AF High, without built-in command but with front intake

AS Free standing without installed switch

U Universal, with adjustable air distribution grille but without built-in thermostat

UF Universal, with adjustable air distribution grille but without built-in thermostat and with front intake grille

Versions with fixed grille (high cabinet)

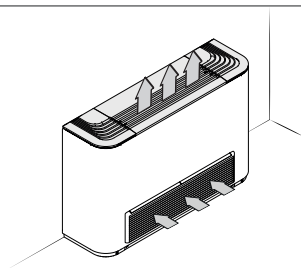


FCZI_AS

- Compatibility with VMF system.
- Without installed switch

FCZI_ACT

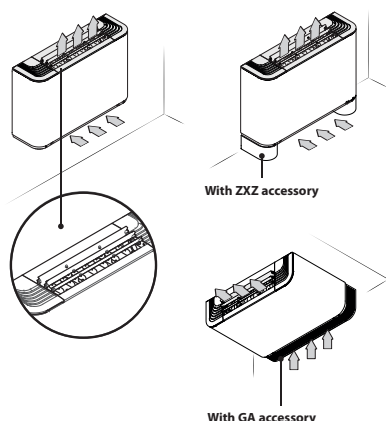
- With electronic thermostat for 2-pipe systems only.



FCZI_AF

- Without installed switch
- Compatibility with VMF system.
- Front intake grille.

Versions with adjustable and fixed grille (universal)



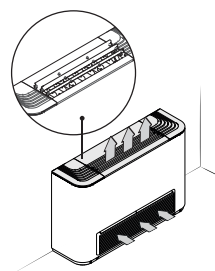
FCZI_U

- Compatibility with VMF system.
- Without installed switch

SIZE AVAILABLE FOR VERSION

Size	200	201	202	250	300	301	302	350	400	401	402	450
Versions produced (by size)												
Versions available (by size)												
AS,ACT,U	*	*	*	*	*	*	*	*	*	*	*	*
AF,UF	*	-	-	*	*	-	-	*	*	-	-	*
	500	501	502	550	700	701	702	750	900	901	950	
Versions produced (by size)												
Versions available (by size)												
A,AS,U,UA	*	*	*	*	*	*	*	*	*	*	*	*
AF,UF	*	-	-	*	-	-	-	-	*	-	*	*

- Distribution grille with adjustable fins. Sizes 2 and 3 have a single grille, whereas sizes 4, 5, 7 and 9 have three grilles fully independent of each other. When all the louvers have closed, the unit switches off.
- Vertical and horizontal installation for 2-pipe and 4-pipe systems.



FCZI_UF

- Compatibility with VMF system.
- Without installed switch
- Air delivery grille with adjustable louvers.
- Vertical and horizontal installation.

GUIDE TO SELECTING THE POSSIBLE CONFIGURATIONS

Field	Description
1,2,3,4	FCZI
5,6,7	Size 200, 201, 202, 250, 300, 301, 302, 350, 400, 401, 402, 450, 500, 501, 502, 550, 700, 701, 702, 750, 900, 901, 950
8	main heat exchanger
9	Secondary heat exchanger
10,11,12	Version
ACT	High, with air distribution grille and electronic thermostat
AF	High, without built-in command but with front intake
AS	Free standing without installed switch
U	Universal, with adjustable air distribution grille but without built-in thermostat
UF	Universal, with adjustable air distribution grille but without built-in thermostat and with front intake grille

ACCESSORIES

Control panels

AER503IR: Flush-mounting thermostat with backlit display, capacitive keypad and infrared receiver, for controlling both brushless fan coils and those with an asynchronous motor. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices (Cold Plasma and germicidal lamp), with radiant plate or with FCZ-D twin delivery (Dualjet). In addition, it can control systems with radiant panels or mixed (fan coil and radiant floor) systems. Being equipped with an infrared receiver, it can, in turn, be controlled by the VMF-IR remote control.

PRO503: Wall box for AER503IR and VMF-E4 thermostats.

SA5: air probe kit (L = 15 m) with probe-locking cable grommet.

SW3: Water probe (L = 2.5 m) for controlling the minimum and maximum and to allow automatic seasonal switching for electronic thermostats fitted with water side changeover.

SW5: water probe kit (L = 15m) with probe-holder connection point, fixing clip and probe-holder from heat exchanger.

T-TOUCH-I: Touch control on board the machine, for controlling fan coils with brushless motors. In 2-pipe systems, it can control standard fan coils or those equipped with an electric heater, with air purifying devices or with FCZI-D twin delivery (Dualjet). In 4-pipe systems, only standard fan coils.

TX: Wall-mounting thermostat for controlling either brushless fan coils or those with asynchronous motors for 2/4 pipe. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices, radiant plate or FCZ-D twin delivery (Dualjet).

TXBI: On board thermostat for fan coils 2/4 pipes of the FCZI series with brushless motor, complete with water probe and air probe to be positioned in the dedicated housings. The thermostat in 2-pipe systems it can control standard fan coils or those equipped with electrical resistors, with purification devices (Cold Plasma and germicidal lamp) with the radiating plate or with double flow FCZI-D (Dualjet).

AerSuite

The AerSuite application is used to remotely control the DI24 user interface, with VMF-E19/VMF-E19I thermostats, using Smart Devices with iOS and Android operating systems.

This is an application for Smartphones and Tablets with which the user can access and control the system operation remotely.

For more information about the use of the application and the available functions, refer to the respective documentation on the website.



VMF system

DI24: Flush-mounted interface (503 box) with 2.4" touch screen display to be combined with VMF-E19, VMF-E19I accessories. It allows you to regulate and monitor the temperature inside rooms precisely and on time; in addition to accessing and interacting with your system's operating information, parameters and alarms, it allows you to set time slots. Thanks to its Wi-Fi connection, DI24 in combination with the AerSuite APP (available for Android and iOS) can also be remotely controlled. All programming and most functions are done in a simple and intuitive way using the APP. To allow for customization of the interface so that it seamlessly integrates with the style of any home, DI24 is compatible with switch plates from major brands available on the market. For more information, please refer to our documentation. However, a switch plate with its graphite gray support, DI24CP, is also available as a separate accessory in our catalog.

VMF-E19I: Thermostat to be secured to the side of the fan coil, fitted as standard with an air probe and a water probe, it controls systems with 2 pipes, 4 pipes, 2 pipes + Cold Plasma, 2 pipes + UV lamps, 2 pipes + Heating element. Equipped with an external contact to be used as a remote ON-OFF at low voltage. By means of 2-wire serial communication, this thermostat allows for the creation of a single fan coil area (1 master + maximum 5

slaves). Compared to the previous model, thanks to a different dip switch configuration, it allows implementing new features: In systems with two pipes and a heating element - the latter can be activated as a complete replacement - allowing you to warm the environment exclusively with this accessory - Dualjet features are available in standard software and can be set via dip switch - Economy contact/presence sensor - Additional water sensor for overall control in 4-pipe systems (with VMF-SW1 accessory) - Serial RS485, ModBus RTU protocol, for centralised control - Possibility of inserting expansion boards for future developments. The VMF-E19 accessory must be therefore used in masters in the presence of multiple zones, or for communication with the chiller/heat pump - Compatibility with the VMF-IO accessory - Compatibility with VMF-LON expansion board. The thermostat is protected by a fuse.

VMF-E22: User interface on the fan coil, with two selectors, one for temperature and the other for speed control; to be combined with accessories VMF-E19 and VMF-E19I.

VMF-E3: Wall mounted user interface, to be combined with accessories VMF-E19, VMF-E19I, with grids GLF_N/M and GLL_N, can be controlled with VMF-IR control.

VMF-E4X: A wall-mounted user interface to be combined with VMF-E19, VMF-E19I, VMF-E24 and VMF-E24I accessories. Featuring an innovative, extremely slim and cost-effective design, it allows running functions via a capacitive touchscreen keyboard with LCD display. You can choose to adjust the environment temperature with a panel-mounted sensor probe (standard), or with the VMF-E19/E19I probe, or through mediated reading. It also enables the activation of an air purifier (Cold Plasma/ UV lamp) and a heating element. Light grey front panel PANTONE COOL GRAY 1C.

VMF-IO: Manage the unit exclusively from a centralized VMF control panel without area control panel.

VMF-IR: User interface compatible with the AER503IR, VMF-E3 thermostat and with all the grids of cassettes equipped with the infrared receiver compatible with the VMF system.

VMF-LON: Expansion allowing the thermostat to interface with BMS systems that use the LON protocol.

VMF-SW: Water probe (L = 2.5m) used if required in place of the standard unit supplied with the VMF-E19 and VMF-E19I thermostats for mounting it upstream of the valve.

VMF-SW1: Additional water probe (L = 2.5m) to be used if required for 4-pipe systems with the VMF-E19 and VMF-E19I thermostats for maximum control in the cold range

VMHI: The VMHI panel can be used as a user interface for VMF-E19/E19I thermostats, GLFXN/M or GLLN grids, or as an interface for the MZC system. What determines the function to be performed by the user interface is determined by its correct parametrisation and by following the electrical connections between interface and thermostat or interface and plenum.

Water valves

VCZ_X: 3-way valve kit for single-coil fan coil, RH connections, (VCZ_X4R) or LH (VCZ_X4L) for 4-pipe systems. With totally separate "heating" and "cooling" circuits. This kit consists of two 3-way insulated valves and four connections, complete with electrothermal actuators, insulating shells for the valves, and the relative hydraulic couplings. X4L version for fan coils with LH connections, and X4R for fan coils with RH connections. 230V~50Hz power supply.

VCZ: 3-way motorised valve kit for the main coil. The kit is made up of a valve with its insulating shell, actuator and relative hydraulic fittings. It can be installed on fan coils with both right and left connections. If the valve is combined with the BCZ5 or BCZ6 condensate drain pan, to ensure a better housing it is possible to remove the insulating shell.

VCF44 - 45 - for secondary heat exchanger: The 3-way motorised valve kit for the secondary coil heat only. The kit consists of a valve with its insulating shell, actuator and relevant water fittings; it is suitable to be installed on the fan coils with right and left water connections.

VCZD: 2-way motorised valve kit. The kit consists of a valve, an actuator and the relative pipe fittings. It can be installed on fan coils with both right and left connections.

VJP: Control and balancing combination valve for 2 and 4 pipe systems to install outside the unit, supplied without fittings and hydraulic components. The valve, which can guarantee a constant water flow rate in the terminal, within its operating range.

Additional coil

BV: Hot water heat exchanger with 1 row.

Installation accessories

PCZ: Metal panel for the unit rear closing. SPCZ brackets are necessary to fix floor standing fan coils.

GA: Lower intake grille for encapsulated fan coils. Can also be used in wall-mounted or floor installations, the FIKIT accessory is needed only in the case of floor installation.

FIKIT: Structural bracket in floor installation.

DSCZ4: Condensate drainage device.

BCZ: Condensate drip. If the valve is paired with the BCZ5 or BCZ6 condensate drip tray, the insulating shell can be removed to ensure better housing.

AMP: Wall mounting kit

ZXZ: Pair of stylish and structural feet.

ACCESSORIES COMPATIBILITY

Control panels

Model	Ver	200	201	202	250	300	301	302	350	400	401	402	450
AERS03IR (1)	AF,UF	*			*	*			*	*			*
	AS,U	*	*	*	*	*	*	*	*	*	*	*	*
PRO503	AF,UF	*			*	*			*	*			*
	AS,U	*	*	*	*	*	*	*	*	*	*	*	*
SAS (2)	AF,UF	*			*	*			*	*			*
	AS,U	*	*	*	*	*	*	*	*	*	*	*	*
SW3 (2)	AF,UF	*			*	*			*	*			*
	AS,U	*	*	*	*	*	*	*	*	*	*	*	*
SW5 (2)	AF,UF	*			*	*			*	*			*
	AS,U	*	*	*	*	*	*	*	*	*	*	*	*
T-TOUCH-I	AF,UF	*			*	*			*	*			*
	AS,U	*	*	*	*	*	*	*	*	*	*	*	*
TX (3)	AF,UF	*			*	*			*	*			*
	AS,U	*	*	*	*	*	*	*	*	*	*	*	*
TXBI (4)	AF,UF	*			*	*			*	*			*
	AS,U	*	*	*	*	*	*	*	*	*	*	*	*

Model	Ver	500	501	502	550	700	701	702	750	900	901	950
AERS03IR (1)	AF,UF	*			*					*		*
	AS,U	*	*	*	*	*	*	*	*	*	*	*
PRO503	AF,UF	*			*	*			*	*		*
	AS,U	*	*	*	*	*	*	*	*	*	*	*
SAS (2)	AF,UF	*			*	*			*	*		*
	AS,U	*	*	*	*	*	*	*	*	*	*	*
SW3 (2)	AF,UF	*			*	*			*	*		*
	AS,U	*	*	*	*	*	*	*	*	*	*	*
SW5 (2)	AF,UF	*			*	*			*	*		*
	AS,U	*	*	*	*	*	*	*	*	*	*	*
T-TOUCH-I	AF,UF	*			*	*			*	*		*
	AS,U	*	*	*	*	*	*	*	*	*	*	*
TX (3)	AF,UF	*			*	*			*	*		*
	AS,U	*	*	*	*	*	*	*	*	*	*	*
TXBI (4)	AF,UF	*			*	*			*	*		*
	AS,U	*	*	*	*	*	*	*	*	*	*	*

(1) Wall-mount installation.

(2) Probe for AERS03IR-TX thermostats, if fitted.

(3) Wall-mounting. If the unit intake exceeds 0.7A, or several units need to be managed with a single thermostat, board SIT3 and/or SIT5 is required.

(4) Installation on the fan coil.

VMF system

For more information about VMF system, refer to the dedicated documentation.

Model	Ver	200	201	202	250	300	301	302	350	400	401	402	450
DI24	AF,UF	*			*	*			*	*			*
	AS,U	*	*	*	*	*	*	*	*	*	*	*	*
VMF-E19I (1)	AF,UF	*			*	*			*	*			*
	AS,U	*	*	*	*	*	*	*	*	*	*	*	*
VMF-E2Z	AF,UF	*			*	*			*	*			*
	AS,U	*	*	*	*	*	*	*	*	*	*	*	*
VMF-E3	AF,UF	*			*	*			*	*			*
	AS,U	*	*	*	*	*	*	*	*	*	*	*	*
VMF-E4X	AF,UF	*			*	*			*	*			*
	AS,U	*	*	*	*	*	*	*	*	*	*	*	*
VMF-I0	AF,UF	*			*	*			*	*			*
	AS,U	*	*	*	*	*	*	*	*	*	*	*	*
VMF-IR	AF,UF	*			*	*			*	*			*
	AS,U	*	*	*	*	*	*	*	*	*	*	*	*
VMF-L0N	AF,UF	*			*	*			*	*			*
	AS,U	*	*	*	*	*	*	*	*	*	*	*	*
VMF-SW	AF,UF	*			*	*			*	*			*
	AS,U	*	*	*	*	*	*	*	*	*	*	*	*
VMF-SW1	AF,UF	*			*	*			*	*			*
	AS,U	*	*	*	*	*	*	*	*	*	*	*	*

Model	Ver	200	201	202	250	300	301	302	350	400	401	402	450
VMHI	AF,UF	*			*	*			*	*			*
	AS,U	*	*	*	*	*	*	*	*	*	*	*	*
Model	Ver	500	501	502	550	700	701	702	750	900	901	950	
DI24	AF,UF	*			*	*			*	*		*	
	AS,U	*	*	*	*	*	*	*	*	*	*	*	
VMF-E19I (1)	AF,UF	*			*					*		*	
	AS,U	*	*	*	*	*	*	*	*	*	*	*	
VMF-E2Z	AF,UF	*			*					*		*	
	AS,U	*	*	*	*	*	*	*	*	*	*	*	
VMF-E3	AF,UF	*			*	*			*	*		*	
	AS,U	*	*	*	*	*	*	*	*	*	*	*	
VMF-E4X	AF,UF	*			*					*		*	
	AS,U	*	*	*	*	*	*	*	*	*	*	*	
VMF-IO	AF,UF	*			*					*		*	
	AS,U	*	*	*	*	*	*	*	*	*	*	*	
VMF-IR	AF,UF	*			*	*			*	*		*	
	AS,U	*	*	*	*	*	*	*	*	*	*	*	
VMF-LON	AF,UF	*			*					*		*	
	AS,U	*	*	*	*	*	*	*	*	*	*	*	
VMF-SW	AF,UF	*			*					*		*	
	AS,U	*	*	*	*	*	*	*	*	*	*	*	
VMF-SW1	AF,UF	*			*					*		*	
	AS,U	*	*	*	*	*	*	*	*	*	*	*	
VMHI	AF,UF	*			*					*		*	
	AS,U	*	*	*	*	*	*	*	*	*	*	*	

(1) Mandatory accessory.

Water valves

3 way valve kit

	200	201	202	250	300	301	302	350	400	401	402	450
Main coil	VCZ41	VCZ41	VCZ41	VCZ41	VCZ42	VCZ42	VCZ42	VCZ42	VCZ42	VCZ42	VCZ42	VCZ42
	VCZ4124	VCZ4124	VCZ4124	VCZ4124	VCZ4224	VCZ4224	VCZ4224	VCZ4224	VCZ4224	VCZ4224	VCZ4224	VCZ4224
Secondary coil	-	VCF44 VCF4424	VCF44 VCF4424	-	-	VCF44 VCF4424	VCF44 VCF4424	-	-	VCF44 VCF4424	VCF44 VCF4424	-
Additional coil “BV”	VCF44 VCF4424	-	-	-	VCF44 VCF4424	-	-	-	VCF44 VCF4424	-	-	-
	500	501	502	550	700	701	702	750	900	901	950	
Main coil	VCZ42	VCZ42	VCZ42	VCZ42	VCZ42	VCZ42	VCZ42	VCZ42	VCZ43	VCZ43	VCZ43	
	VCZ4224	VCZ4224	VCZ4224	VCZ4224	VCZ4224	VCZ4224	VCZ4224	VCZ4224	VCZ4324	VCZ4324	VCZ4324	
Secondary coil	-	VCF44 VCF4424	VCF44 VCF4424	-	-	VCF44 VCF4424	VCF44 VCF4424	-	-	VCF45 VCF4524	-	
Additional coil “BV”	VCF44 VCF4424	-	-	-	VCF44 VCF4424	-	-	-	VCF45 VCF4524	-	-	

VCZ41 - 42 - 43; VCF44 - 45 (230V~50Hz)

VCZ4124 - 4224 - 4324; VCF4224 - 4524 (24V)

2 way valve kit

	200	201	202	250	300	301	302	350	400	401	402	450
Main coil	VCZD1	VCZD1	VCZD1	VCZD1	VCZD2	VCZD2	VCZD2	VCZD2	VCZD2	VCZD2	VCZD2	VCZD2
	VCZD124	VCZD124	VCZD124	VCZD124	VCZD224	VCZD224	VCZD224	VCZD224	VCZD224	VCZD224	VCZD224	VCZD224
Secondary coil	-	VCFD4	VCFD4	-	-	VCFD4	VCFD4	-	-	VCFD4	VCFD4	-
		VCFD424	VCFD424			VCFD424	VCFD424			VCFD424	VCFD424	
Additional coil “BV”	VCFD4				VCFD4				VCFD4			
	VCFD424	-	-	-	VCFD424	-	-	-	VCFD424	-	-	-
	500	501	502	550	700	701	702	750	900	901	950	
Main coil	VCZD2	VCZD2	VCZD2	VCZD2	VCZD2	VCZD2	VCZD2	VCZD2	VCZD3	VCZD3	VCZD3	
	VCZD224	VCZD224	VCZD224	VCZD224	VCZD224	VCZD224	VCZD224	VCZD224	VCZD324	VCZD324	VCZD324	
Secondary coil	-	VCFD4	VCFD4	-	-	VCFD4	VCFD4	-	-	VCFD4	-	
		VCFD424	VCFD424			VCFD424	VCFD424			VCFD424		
Additional coil “BV”	VCFD4				VCFD4				VCFD4			
	VCFD424	-	-	-	VCFD424	-	-	-	VCFD424	-	-	

VCZD1 - 2 - 3; VCFD4 (230V~50Hz)

VCZD124 - 224 - 324; VCFD424 (24V)

Valve Kit for 4 pipe systems

Model	Ver	200	201	202	250	300	301	302	350	400	401	402	450
VCZ1X4L (1)	AF,AS,U,UF	*			*								
VCZ1X4R (1)	AF,AS,U,UF	*			*								
VCZ2X4L (1)	AF,AS,U,UF					*			*	*			*
VCZ2X4R (1)	AF,AS,U,UF					*			*	*			*

Model	Ver	500	501	502	550	700	701	702	750	900	901	950
VCZ2X4L (1)	AF,UF	•			•							
	AS,U	•			•	•			•			
VCZ2X4R (1)	AF,UF	•			•							
	AS,U	•			•	•			•			
VCZ3X4L (1)	AF,AS,U,UF									•		•
VCZ3X4R (1)	AF,AS,U,UF									•		•

(1) The valves can be combined with the units if there is a control panel for managing them.

Combined Adjustment and Balancing Valve Kit

Model	Ver	200	201	202	250	300	301	302	350	400	401	402	450
VJP060 (1)	ACT,AS,U	•	•	•	•	•	•	•	•				
	AF,UF	•			•	•			•				
VJP060M (2)	ACT,AS,U	•	•	•	•	•	•	•	•				
	AF,UF	•			•	•			•				
VJP090 (1)	ACT,AS,U									•	•	•	•
	AF,UF									•			•
VJP090M (2)	ACT,AS,U									•	•	•	•
	AF,UF									•			•

Model	Ver	500	501	502	550	700	701	702	750	900	901	950
VJP090 (1)	ACT,AS,U	•	•	•	•							
	AF,UF	•			•							
VJP090M (2)	ACT,AS,U	•	•	•	•							
	AF,UF	•			•							
VJP150 (1)	ACT,AS,U					•	•	•	•	•	•	•
	AF,UF									•		•
VJP150M (2)	ACT,AS,U					•	•	•	•	•	•	•
	AF,UF									•		•

(1) 230V~50Hz

(2) 24V

(Heating only) additional coil

Model	Ver	200	201	202	250	300	301	302	350	400	401	402	450
BV122 (1)	ACT,AF,AS,U,UF	•											
BV132 (1)	ACT,AF,AS,U,UF					•							
BV142 (1)	ACT,AF,AS,U,UF									•			

Model	Ver	500	501	502	550	700	701	702	750	900	901	950
BV142 (1)	ACT,AF,AS,U,UF	•										
BV162 (1)	ACT,AF,AS,U,UF									•		
BVZ800 (1)	ACT,AS,U					•						

(1) Not available for sizes with oversized main coil.

Installation accessories

Model	Ver	200	201	202	250	300	301	302	350	400	401	402	450
AMP20	U	•	•	•	•	•	•	•	•	•	•	•	•
AMPZ	U	•	•	•	•	•	•	•	•	•	•	•	•

Model	Ver	500	501	502	550	700	701	702	750	900	901	950
AMP20	U	•	•	•	•							
AMPZ	U	•	•	•	•	•	•	•	•	•	•	•

Model	Ver	200	201	202	250	300	301	302	350	400	401	402	450
DSCZ4 (1)	ACT,AS,U	•	•	•	•	•	•	•	•	•	•	•	•
	AF,UF	•			•	•			•	•			•

Model	Ver	500	501	502	550	700	701	702	750	900	901	950
DSCZ4 (1)	ACT,AS,U	•	•	•	•	•	•	•	•	•	•	•
	AF,UF	•			•					•		•

(1) DSCZ4 due to space problems inside the unit, the VCZ1-2-3-4 X4L/R valves cannot be mounted together with the amp/AMPZ accessories, with all the condensate collection trays. With the VMF-E19/E19I thermostats, please contact the head office.

Model	Ver	200	201	202	250	300	301	302	350	400	401	402	450
BCZ4 (1)	ACT,AS,U	•	•	•	•	•	•	•	•	•	•	•	•
	AF,UF	•			•	•			•	•			•
BCZ5 (2)	ACT,AS,U	•	•	•	•	•	•	•	•	•	•	•	•
	AF,UF	•			•	•			•	•			•

Model	Ver	500	501	502	550	700	701	702	750	900	901	950
BCZ4 (1)	ACT,AS,U	•	•	•	•	•	•	•	•	•	•	•
	AF,UF	•			•					•		•
BCZ5 (2)	ACT,AS,U	•	•	•	•	•	•	•	•			
	AF,UF	•			•							
BCZ6 (2)	ACT,AS,U									•	•	•
	AF,UF									•		•

(1) For vertical installation.

(2) For horizontal installation.

Model	Ver	200	201	202	250	300	301	302	350	400	401	402	450
PCZ200	ACT,AS,U	.	.	.	.								
	AF,U,F	.			.								
PCZ300	ACT,AS,U					.	.	.	.				
	AF,U,F					.			.				
PCZ500	ACT,AS,U									.	.	.	.
	AF,U,F									.			.
Model	Ver	500	501	502	550	700	701	702	750	900	901	950	
PCZ1000	ACT,AS,U									.	.	.	
	AF,U,F									.		.	
PCZ500	ACT,AS,U	.	.	.	.								
	AF,U,F	.			.								
PCZ800	ACT,AS,U					.	.	.	.				
Model	Ver	200	201	202	250	300	301	302	350	400	401	402	450
GA200	AF,U,F	.			.								
	AS,U	.	.	.	.								
GA300	AF,U,F					.			.				
	AS,U					.	.	.	.				
GA500	AF,U,F									.			.
	AS,U									.	.	.	.
Model	Ver	500	501	502	550	700	701	702	750	900	901	950	
GA500	AF,U,F	.			.								
	AS,U	.	.	.	.								
GA800	AF,U,F									.		.	
	AS,U					.	.	.	.	.	.	.	
Model	Ver	200	201	202	250	300	301	302	350	400	401	402	450
FIKIT200	AF,U,F	.			.								
	AS,U	.	.	.	.								
FIKIT300	AF,U,F					.			.				
	AS,U					.	.	.	.				
FIKIT500	AF,U,F									.			.
	AS,U									.	.	.	.
Model	Ver	500	501	502	550	700	701	702	750	900	901	950	
FIKIT500	AF,U,F	.			.								
	AS,U	.	.	.	.								
FIKIT800	AF,U,F									.		.	
	AS,U					.	.	.	.	.	.	.	
Model	Ver	200	201	202	250	300	301	302	350	400	401	402	450
ZXZ	ACT,AS,U	.	.	.	.	.	.	.	.	.	.	.	.
	AF,U,F	.			.	.			.	.			.
Model	Ver	500	501	502	550	700	701	702	750	900	901	950	
ZXZ	ACT,AS,U	.	.	.	.	.	.	.	.	.	.	.	
	AE,U,F	.			.					.		.	

PERFORMANCE SPECIFICATIONS

Technical data - 2-pipe systems (main coil)

2-pipe

	FCZI200			FCZI250			FCZI300			FCZI350			FCZI400			FCZI450			FCZI500			FCZI550		
	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H

Heating performance 70 °C / 60 °C (1)

Heating capacity	kW	2,02	2,95	3,70	2,20	3,18	4,05	3,47	4,46	5,50	3,77	4,92	6,15	4,32	5,74	7,15	4,57	6,29	7,82	5,27	7,31	8,50	5,82	8,34	9,75
Water flow rate system side	l/h	177	258	324	193	278	355	304	391	482	330	431	539	379	503	627	400	551	685	462	641	745	510	731	855
Pressure drop system side	kPa	6	12	18	7	15	23	7	12	18	8	14	20	9	16	24	6	11	16	12	21	28	10	20	26

Heating performance 45 °C / 40 °C (2)

Heating capacity	kW	1,00	1,46	1,84	1,09	1,58	2,01	1,72	2,21	2,73	1,87	2,44	3,06	2,14	2,85	3,55	2,27	3,12	3,88	2,62	3,63	4,22	2,89	4,14	4,85
Water flow rate system side	l/h	174	254	319	190	274	350	299	385	475	325	425	531	373	495	617	394	543	675	455	631	734	502	720	842
Pressure drop system side	kPa	6	12	18	8	15	22	8	12	18	9	14	21	10	16	24	6	11	16	12	21	28	10	20	26

Cooling performance 7 °C / 12 °C

Cooling capacity	kW	0,89	1,28	1,60	1,06	1,55	1,94	1,68	2,17	2,65	1,89	2,46	3,02	2,20	2,92	3,60	2,41	3,21	4,03	2,68	3,69	4,25	2,91	4,13	4,79
Sensible cooling capacity	kW	0,71	1,05	1,33	0,79	1,20	1,52	1,26	1,65	2,04	1,33	1,76	2,18	1,59	2,14	2,67	1,69	2,30	2,90	1,94	2,73	3,18	2,07	2,98	3,49
Water flow rate system side	l/h	153	221	275	182	267	334	288	374	456	350	460	560	379	503	619	414	552	694	460	634	731	501	711	824
Pressure drop system side	kPa	6	12	18	8	17	25	8	13	18	11	18	25	10	17	24	9	15	22	13	23	29	12	22	28

Fan

Type	type	Centrifugal																							
Fan motor	type	Inverter																							
Number	no.	1		1		2		2		2		2		2		2		2		2		2		2	
Air flow rate	m³/h	140	220	290	140	220	290	260	350	450	260	350	450	330	460	600	330	460	600	400	600	720	400	600	720
Input power	W	5	8	14	5	8	14	5	7	13	5	7	13	5	10	18	5	10	18	7	18	34	7	18	38
Signal 0-10V	%	44	68	90	44	68	90	52	70	90	52	70	90	49	68	90	49	68	90	50	74	90	50	74	90

Fan coil sound data (3)

Sound power level	dB(A)	35,0	46,0	51,0	35,0	46,0	51,0	34,0	41,0	48,0	34,0	41,0	48,0	37,0	44,0	51,0	37,0	44,0	51,0	42,0	51,0	56,0	42,0	51,0	56,0
Sound pressure level	dB(A)	27,0	38,0	43,0	27,0	38,0	43,0	26,0	33,0	40,0	26,0	33,0	40,0	29,0	36,0	43,0	29,0	36,0	43,0	34,0	43,0	48,0	34,0	43,0	48,0

Diameter hydraulic fittings

Main heat exchanger	Ø	1/2"		1/2"		3/4"		3/4"		3/4"		3/4"		3/4"		3/4"		3/4"		3/4"		3/4"		3/4"	
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Power supply

Power supply	230V~50Hz																								
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	FCZI700			FCZI750			FCZI900			FCZI950		
	1	2	3	1	2	3	1	2	3	1	2	3
	L	M	H	L	M	H	L	M	H	L	M	H

Heating performance 70 °C / 60 °C (1)

Heating capacity	kW	8,10	9,80	11,00	9,10	11,30	12,50	10,77	13,35	15,14	11,20	14,42	17,10
Water flow rate system side	l/h	710	860	964	798	991	1096	945	1171	1328	982	1264	1500
Pressure drop system side	kPa	17	23	29	10	15	18	12	17	22	16	25	33

Heating performance 45 °C / 40 °C (2)

Heating capacity	kW	4,03	4,87	5,47	4,50	5,60	6,20	5,35	6,64	7,53	5,57	7,17	8,50
Water flow rate system side	l/h	699	846	950	786	975	1079	930	1152	1307	967	1245	1476
Pressure drop system side	kPa	17	24	29	10	15	18	12	17	22	15	24	33

Cooling performance 7 °C / 12 °C

Cooling capacity	kW	3,92	4,89	5,50	4,27	5,34	6,14	4,29	5,00	6,91	5,77	7,32	8,60
Sensible cooling capacity	kW	2,99	3,76	4,30	3,20	4,05	4,72	2,97	3,78	5,68	3,80	4,87	5,78
Water flow rate system side	l/h	675	841	946	734	918	1056	738	860	1189	992	1259	1479
Pressure drop system side	kPa	17	25	30	10	15	19	10	13	22	15	23	30

Fan

Type	type	Centrifugal											
Fan motor	type	Inverter											
Number	no.	3			3			3			3		
Air flow rate	m³/h	700	930	1140	700	930	1140	700	930	1140	700	930	1140
Input power	W	30	40	80	30	40	80	30	40	80	30	40	80
Signal 0-10V	%	56	72	90	56	72	90	56	72	90	56	72	90

Fan coil sound data (3)

Sound power level	dB(A)	50,0	57,0	62,0	50,0	57,0	62,0	51,0	57,0	62,0	51,0	57,0	62,0
Sound pressure level	dB(A)	42,0	49,0	54,0	42,0	49,0	54,0	43,0	49,0	54,0	43,0	49,0	54,0

Diameter hydraulic fittings

Main heat exchanger	Ø	3/4"										
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Power supply

Power supply	230V~50Hz											
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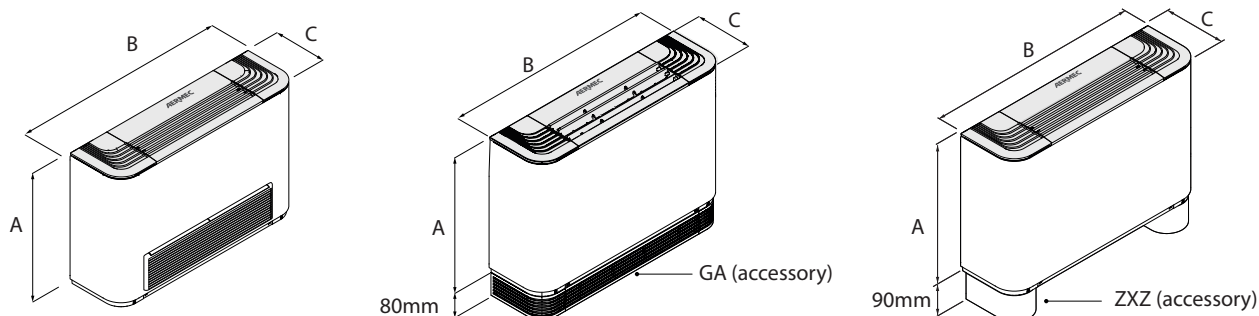
(1) Room air temperature 20 °C d.b.; Water (in/out) 70 °C/60 °C

(2) Room air temperature 20 °C d.b.; Water (in/out) 45 °C/40 °C; EUROVENT

(3) Aermec determines the sound power value on the basis of measurements taken in accordance with standard UNI EN 16583:15, respecting the Eurovent certification.

Technical data - 4-pipe systems (main coil + secondary coil)

DIMENSIONS



		FCZI200	FCZI201	FCZI250	FCZI300	FCZI301	FCZI350	FCZI400	FCZI401	FCZI450
Dimensions and weights										
A	mm	486	486	486	486	486	486	486	486	486
B	mm	750	750	750	980	980	980	1200	1200	1200
C	mm	220	220	220	220	220	220	220	220	220
Empty weight	kg	15	15	16	17	17	18	22	23	24
		FCZI500	FCZI501	FCZI550	FCZI700	FCZI701	FCZI750	FCZI900	FCZI901	FCZI950
Dimensions and weights										
A	mm	486	486	486	486	486	486	591	591	591
B	mm	1200	1200	1200	1320	1320	1320	1320	1320	1320
C	mm	220	220	220	220	220	220	220	220	220
Empty weight	kg	22	23	24	29	30	31	34	34	34

Aermec reserves the right to make any modifications deemed necessary.
All data is subject to change without notice. Aermec does not assume
responsibility or liability for errors or omissions.

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www.aermec.com

FCZ-D

Fan coil for vertical wall-mounting or free-standing installation

Cooling capacity 0,89 ÷ 4,25 kW
Heating capacity 2,02 ÷ 8,50 kW

- Fully silent operation
- Backlit touch command with programming via a smart device
- Total comfort in every season



DESCRIPTION

The perception of uneven temperature distribution in various settings, especially in the vertical direction, is one of the main factors leading to a drastic reduction in the well-being perceived by occupants.

FCZ D are able to provide a pleasant sensation of comfort by directing the air in a way that ensures uniform temperature distribution throughout the setting. In winter, hot air is direct downwards; in summer, cool air is directed upwards.

Air supply switching at the front or from the top by operating directly on the orientable grille.

They can be installed in any type of 2 / 4 pipe system and in combination with any heat generator even at low temperatures. Thanks to the availability of several versions and configurations, it is easy to choose the optimal solution for every requirement.

FEATURES

Case

Protective metal cabinet with anti-corrosion polyester RAL 9003 paint, whereas the head with the air distribution grille is in RAL 7047 plastic.

Ventilation group

Consisting of double suction centrifugal fans that are particularly silent, statically and dynamically balanced, and directly coupled with the motor shaft.

The motor is wired for single phase and has three speeds, with capacitor. The motor is fitted on sealed for life bearings and is secured on anti-vibration and self-lubricating mountings.

Extractable shrouds for easy, effective cleaning

Finned pack heat exchanger

With copper pipes and aluminium louvers, the main heat exchanger has female gas water connections on the left side and the manifolds have air vents.

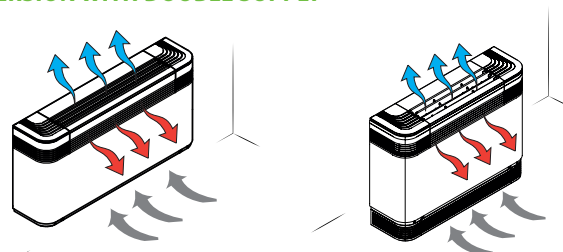
The coil is not suitable for use in corrosive atmosphere or in environments where aluminium may be subject to corrosion.

The hydraulic connections can be inverted during installation.

Air filter

Air filter class Coarse 25% for all versions easy to pull out and clean.

VERSION WITH DOUBLE SUPPLY



FCZ_D

— With on-board thermostat.

FCZ_DS

— Compatibility with VMF system.

— Without installed switch

GUIDE TO SELECTING THE POSSIBLE CONFIGURATIONS

Field	Description
1,2,3	FCZ
4	Size 2, 3, 4, 5
5	main heat exchanger
0	Standard
6	Secondary heat exchanger
0	Without coil
7	Version
D	Dualjet with thermostat TXB on-board the system
DS	Dualjet without on-board thermostat

ACCESSORIES

Control panels

AER5031R: Flush-mounting thermostat with backlit display, capacitive keypad and infrared receiver, for controlling both brushless fan coils and those with an asynchronous motor. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air puri-

fying devices (Cold Plasma and germicidal lamp), with radiant plate or with FCZ-D twin delivery (Dualjet). In addition, it can control systems with radiant panels or mixed (fan coil and radiant floor) systems. Being equipped with an infrared receiver, it can, in turn, be controlled by the VMF-IR remote control.

PRO503: Wall box for AER503IR and VMF-E4 thermostats.

SA5: air probe kit (L = 15 m) with probe-locking cable grommet.

SW3: Water probe (L = 2.5 m) for controlling the minimum and maximum and to allow automatic seasonal switching for electronic thermostats fitted with water side changeover.

SW5: water probe kit (L = 15m) with probe-holder connection point, fixing clip and probe-holder from heat exchanger.

T-TOUCH: Touch control on board the machine, for controlling fan coils with asynchronous motors. In 2-pipe systems, it can control standard fan coils or those equipped with an electric heater, with air purifying devices or with FCZ-D twin delivery (Dualjet). In 4-pipe systems, only standard fan coils.

TX: Wall-mounting thermostat for controlling either brushless fan coils or those with asynchronous motors for 2/4 pipe. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices, radiant plate or FCZ-D twin delivery (Dualjet).

AerSuite

The AerSuite application is used to remotely control the DI24 user interface, with VMF-E19/VMF-E19I thermostats, using Smart Devices with iOS and Android operating systems.

This is an application for Smartphones and Tablets with which the user can access and control the system operation remotely.

For more information about the use of the application and the available functions, refer to the respective documentation on the website.



VMF system

DI24: Flush-mounted interface (503 box) with 2.4" touch screen display to be combined with VMF-E19, VMF-E19I accessories. It allows you to regulate and monitor the temperature inside rooms precisely and on time; in addition to accessing and interacting with your system's operating information, parameters and alarms, it allows you to set time slots. Thanks to its Wi-Fi connection, DI24 in combination with the AerSuite APP (available for Android and iOS) can also be remotely controlled. All programming and most functions are done in a simple and intuitive way using the APP. To allow for customization of the interface so that it seamlessly integrates with the style of any home, DI24 is compatible with switch plates from major brands available on the market. For more information, please refer to our documen-

tation. However, a switch plate with its graphite gray support, DI24CP, is also available as a separate accessory in our catalog.

VMF-E19: Thermostat to be secured to the side of the fan coil, fitted as standard with an air probe and a water probe.

VMF-E22: User interface on the machine, to be combined with the VMF-E19 and VMF-E19I accessory.

VMF-E3: Wall mounted user interface, to be combined with accessories VMF-E19, VMF-E19I, with grids GLF_N/M and GLL_N, can be controlled with VMF-IR control.

VMF-E4DX: Wall-mounted user interface. Grey front panel PANTONE 425C (METAL).

VMF-E4X: Wall-mounted user interface. Light grey front panel PANTONE COOL GRAY 1C.

VMF-IO: Manage the unit exclusively from a centralized VMF control panel without area control panel.

VMF-IR: User interface compatible with the AER503IR, VMF-E3 thermostat and with all the grids of cassettes equipped with the infrared receiver compatible with the VMF system.

VMHI: The VMHI panel can be used as a user interface for VMF-E19/E19I thermostats, GLFxN/M or GLLxN grids, or as an interface for the MZC system. What determines the function to be performed by the user interface is determined by its correct parametrisation and by following the electrical connections between interface and thermostat or interface and plenum.

Water valves

VCZ_X: 3-way valve kit for single-coil fan coil, RH connections, (VCZ_X4R) or LH (VCZ_X4L) for 4-pipe systems. With totally separate "heating" and "cooling" circuits. This kit consists of two 3-way insulated valves and four connections, complete with electrothermal actuators, insulating shells for the valves, and the relative hydraulic couplings. X4L version for fan coils with LH connections, and X4R for fan coils with RH connections. 230V~50Hz power supply.

VCZ: 3-way motorised valve kit for the main coil. The kit is made up of a valve with its insulating shell, actuator and relative hydraulic fittings. It can be installed on fan coils with both right and left connections. If the valve is combined with the BCZ5 or BCZ6 condensate drain pan, to ensure a better housing it is possible to remove the insulating shell.

VCZD: 2-way motorised valve kit. The kit consists of a valve, an actuator and the relative pipe fittings. It can be installed on fan coils with both right and left connections.

VJP: Control and balancing combination valve for 2 and 4 pipe systems to install outside the unit, supplied without fittings and hydraulic components. The valve, which can guarantee a constant water flow rate in the terminal, within its operating range.

Installation accessories

PCZ: Metal panel for the unit rear closing. SPCZ brackets are necessary to fix floor standing fan coils.

GA: Lower intake grille for encapsulated fan coils. Can also be used in wall-mounted or floor installations, the FIKIT accessory is needed only in the case of floor installation.

FIKIT: Structural bracket in floor installation.

DSCZ4: Condensate drainage device.

BCZ: Condensate drip. If the valve is paired with the BCZ5 or BCZ6 condensate drip tray, the insulating shell can be removed to ensure better housing.

ACCESSORIES COMPATIBILITY

Control panels

Model	Ver	200	300	400	500
AER503IR (1)	DS	•	•	•	•
PRO503	DS	•	•	•	•
SA5 (2)	DS	•	•	•	•
SW3 (2)	DS	•	•	•	•
SW5 (2)	DS	•	•	•	•
T-TOUCH (3)	DS	•	•	•	•
TX (4)	DS	•	•	•	•

(1) Wall-mount installation.

(2) Probe for AER503IR-TX thermostats, if fitted.

(3) Installation on the fan coil.

(4) Wall-mounting. If the unit intake exceeds 0.7A, or several units need to be managed with a single thermostat, board SIT3 and/or SIT5 is required.

VMF system

For more information about VMF system, refer to the dedicated documentation.

Model	Ver	200	300	400	500
DI24	DS	*	*	*	*
VMF-E19 (1)	DS	*	*	*	*
VMF-E2Z	DS	*	*	*	*
VMF-E3	DS	*	*	*	*
VMF-E4DX	DS	*	*	*	*
VMF-E4X	DS	*	*	*	*
VMF-I0	DS	*	*	*	*
VMF-IR	DS	*	*	*	*
VMHI	DS	*	*	*	*

(1) Also the accessory VMF-SIT3V is mandatory if the unit exceeds 0.7 Amperes.

Water valves

3 way valve kit

Model	Ver	200	300	400	500
VCZ41 (1)	D,DS	*			
VCZ4124 (2)	D,DS	*			
VCZ42 (1)	D,DS		*	*	*
VCZ4224 (2)	D,DS		*	*	*

(1) 230V~50Hz

(2) 24V

2 way valve kit

Model	Ver	200	300	400	500
VCZD1 (1)	D,DS	*			
VCZD124 (2)	D,DS	*			
VCZD2 (1)	D,DS		*	*	*
VCZD224 (2)	D,DS		*	*	*

(1) 230V~50Hz

(2) 24V

Valve Kit for 4 pipe systems - Requires a thermostat with valve management

Model	Ver	200	300	400	500
VCZ1X4L (1)	D,DS	*			
VCZ1X4R (1)	D,DS	*			
VCZ2X4L (1)	D,DS		*	*	*
VCZ2X4R (1)	D,DS		*	*	*

(1) The valves can be combined with the units if there is a control panel for managing them.

Combined Adjustment and Balancing Valve Kit

Model	Ver	200	300	400	500
VJP060 (1)	D,DS	*	*		
VJP060M (2)	D,DS	*	*		
VJP090 (1)	D,DS			*	*
VJP090M (2)	D,DS			*	*

(1) 230V~50Hz

(2) 24V

Installation accessories

Condensate recirculation device

Model	Ver	200	300	400	500
DSCZ4 (1)	D,DS	*	*	*	*

(1) DSCZ4 due to space problems inside the unit, the VCZ1-2-3-4 X4L/R valves cannot be mounted together with the amp/AMPZ accessories, with all the condensate collection trays. With the VMF-E19/E19I thermostats, please contact the head office.

Condensate drip

Model	Ver	200	300	400	500
BCZ4 (1)	D,DS	*	*	*	*

(1) For vertical installation.

Panel closing the rear of the unit

Model	Ver	200	300	400	500
PCZ200	D,DS	*			
PCZ300	D,DS		*		
PCZ500	D,DS			*	*

Ornamental grille

Model	Ver	200	300	400	500
GA200	D,DS	*			
GA300	D,DS		*		
GA500	D,DS			*	*

Supports to be combined with the ornamental grille (GA) for floor installation of the fan coil

Model	Ver	200	300	400	500
FIKIT200	D,DS	*			

Model	Ver	200	300	400	500
FIKIT300	D,DS		*		
FIKIT500	D,DS			*	*

Pair of stylish structural feet

Model	Ver	200	300	400	500
ZXZ	D,DS	*	*	*	*

PERFORMANCE SPECIFICATIONS

2-pipe

	FCZ200D			FCZ300D			FCZ400D			FCZ500D		
	1	2	3	1	2	3	1	2	3	1	2	3
	L	M	H	L	M	H	L	M	H	L	M	H

Heating performance 70 °C / 60 °C (1)

Heating capacity	kW	2,02	2,95	3,70	3,47	4,46	5,50	4,32	5,74	7,15	5,27	7,31	8,50
Water flow rate system side	l/h	177	258	324	304	391	482	379	503	627	462	641	745
Pressure drop system side	kPa	6	12	18	7	12	18	9	16	24	12	21	28

Heating performance 45 °C / 40 °C (2)

Heating capacity	kW	1,00	1,46	1,84	1,72	2,21	2,73	2,14	2,85	3,55	2,62	3,63	4,22
Water flow rate system side	l/h	174	254	319	299	385	475	373	495	617	455	631	734
Pressure drop system side	kPa	6	12	18	8	12	18	10	16	24	12	21	28

Cooling performance 7 °C / 12 °C

Cooling capacity	kW	0,89	1,28	1,60	1,68	2,17	2,65	2,20	2,92	3,60	2,68	3,69	4,25
Sensible cooling capacity	kW	0,71	1,05	1,33	1,26	1,65	2,04	1,59	2,14	2,67	1,94	2,73	3,18
Water flow rate system side	l/h	153	221	275	288	374	456	379	503	619	460	634	731
Pressure drop system side	kPa	7	13	18	8	13	18	10	17	24	13	23	29

Fan

Type	type	Centrifugal			Centrifugal			Centrifugal			Centrifugal		
Fan motor	type	Asynchronous			Asynchronous			Asynchronous			Asynchronous		
Number	no.	1			2			2			2		
Air flow rate	cfm	-	220	290	-	350	450	-	460	600	-	600	720
Input power	W	13	25	35	25	33	44	30	43	57	38	52	76
Electrical wiring		V1	V2	V3	V1	V2	V3	V1	V2	V3	V1	V2	V3

Fan coil sound data (3)

Sound power level	dB(A)	35,0	46,0	51,0	34,0	41,0	48,0	37,0	44,0	51,0	42,0	51,0	56,0
Sound pressure level	dB(A)	27,0	38,0	43,0	26,0	33,0	40,0	29,0	36,0	43,0	34,0	43,0	48,0

Finned pack heat exchanger

Water content main heat exchanger	l	0,5			0,8			1,0			1,0		
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Diameter hydraulic fittings

Main heat exchanger	Ø	1/2"			3/4"			3/4"			3/4"		
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Power supply

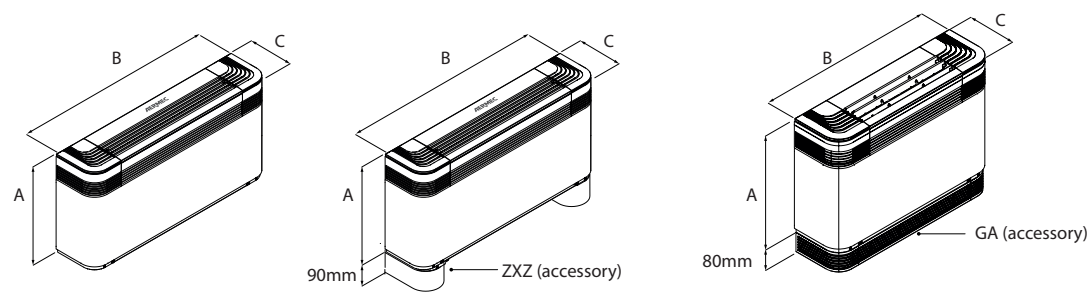
Power supply		230V~50Hz			230V~50Hz			230V~50Hz			230V~50Hz		
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(1) Room air temperature 20 °C d.b.; Water (in/out) 70 °C/60 °C

(2) Room air temperature 20 °C d.b.; Water (in/out) 45 °C/40 °C; EUROVENT

(3) Aermec determines the sound power value on the basis of measurements taken in accordance with standard UNI EN 16583:15, respecting the Eurovent certification.

DIMENSIONS



		FCZ200D	FCZ300D	FCZ400D	FCZ500D
Dimensions and weights					
A	mm	486	486	486	486
B	mm	750	980	1200	1200
C	mm	220	220	220	220
Empty weight	kg	15	17	23	22

Aermec reserves the right to make any modifications deemed necessary.
 All data is subject to change without notice. Aermec does not assume
 responsibility or liability for errors or omissions.

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 Via Roma, 996 - 37040 Bevilacqua (VR) - Italia
 Tel. 0442633111 - Telefax 044293577
www.aermec.com

FCZI-D

Fan coil for vertical wall-mounting or free-standing installation

Cooling capacity 0,89 ÷ 4,25 kW
Heating capacity 2,02 ÷ 8,50 kW

- Total comfort in every season
- Electric saving equal to 50% with respect to a fan coil with 3-speed motor
- Fully silent operation
- Backlit Touch command with programming via a smart device (DT version)



DESCRIPTION

The perception of uneven temperature distribution in various settings, especially in the vertical direction, is one of the main factors leading to a drastic reduction in the well-being perceived by occupants.

FCZI D are able to provide a pleasant sensation of comfort by directing the air in a way that ensures uniform temperature distribution throughout the setting. In winter, hot air is directed downwards; in summer, cool air is directed upwards.

Air supply switching at the front or from the top by operating directly on the orientable grille.

They can be installed in any type of 2 / 4 pipe system and in combination with any heat generator even at low temperatures. Thanks to the availability of several versions and configurations, it is easy to choose the optimal solution for every requirement.

FEATURES

Case

Protective metal cabinet with anti-corrosion polyester RAL 9003 paint, whereas the head with the air distribution grille is in RAL 7047 plastic.

Ventilation group

Centrifugal fans in anti-static plastic material with aerofoil profile designed to achieve high airflows and pressures whilst at the same time producing low noise.

Their characteristics permit energy savings compared to conventional fans. They are statically and dynamically balanced and directly coupled to the motor shaft.

The Brushless electric motor with 0-100% continuous speed variation, which allows precise adaptation to the real demands of the internal environment without temperature fluctuations.

Finned pack heat exchanger

With copper pipes and aluminium louvers, the main heat exchanger has female gas water connections on the left side and the manifolds have air vents.

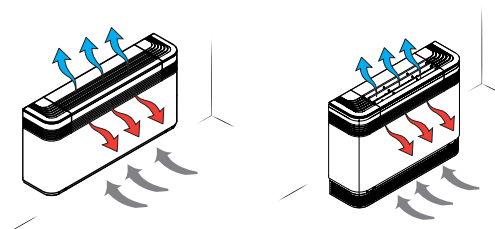
The coil is not suitable for use in corrosive atmosphere or in environments where aluminium may be subject to corrosion.

The hydraulic connections can be inverted during installation.

Air filter

Air filter class Coarse 25% for all versions easy to pull out and clean.

VERSION WITH DOUBLE SUPPLY



FCZI_D

— With on-board thermostat.

FCZI_DT

— With thermostat T-TOUCH-I on-board the system

— Compatibility with VMF system.

FCZI_DS

— Without installed switch

— Compatibility with VMF system.

GUIDE TO SELECTING THE POSSIBLE CONFIGURATIONS

Field	Description
1,2,3,4	FCZI
5	Size 2, 3, 4, 5
6	main heat exchanger
0	Standard
7	Secondary heat exchanger
0	Without coil
8	Version
D	Dualjet with thermostat TXBI on-board the system
DS	Dualjet without on-board thermostat
DT	Dualjet with T-Touch-I thermostat

ACCESSORIES

Control panels

AER503IR: Flush-mounting thermostat with backlit display, capacitive keypad and infrared receiver, for controlling both brushless fan coils and those with an asynchronous motor. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices (Cold Plasma and germicidal lamp), with radiant plate or with FCZ-D twin delivery (Dualjet). In addition, it can control systems with radiant panels or mixed (fan coil and radiant floor) systems. Being equipped with an infrared receiver, it can, in turn, be controlled by the VMF-IR remote control.

PRO503: Wall box for AER503IR and VMF-E4 thermostats.

SA5: air probe kit (L = 15 m) with probe-locking cable grommet.

SW3: Water probe (L = 2.5 m) for controlling the minimum and maximum and to allow automatic seasonal switching for electronic thermostats fitted with water side changeover.

SW5: Water probe kit (L = 15m) with probe-holder connection point, fixing clip and probe-holder from heat exchanger.

TX: Wall-mounting thermostat for controlling either brushless fan coils or those with asynchronous motors for 2/4 pipe. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices, radiant plate or FCZ-D twin delivery (Dualjet).

AerSuite

The AerSuite application is used to remotely control the DI24 user interface, with VMF-E19/VMF-E19I thermostats, using Smart Devices with iOS and Android operating systems.

This is an application for Smartphones and Tablets with which the user can access and control the system operation remotely.

For more information about the use of the application and the available functions, refer to the respective documentation on the website.



VMF system

DI24: Flush-mounted interface (503 box) with 2.4" touch screen display to be combined with VMF-E19, VMF-E19I accessories. It allows you to regulate and monitor the temperature inside rooms precisely and on time; in addition to accessing and interacting with your system's operating information, parameters and alarms, it allows you to set time slots. Thanks to its Wi-Fi connection, DI24 in combination with the AerSuite APP (available for Android and iOS) can also be remotely controlled. All programming and most functions are done in a simple and intuitive way using the APP. To allow for customization of the interface so that it seamlessly integrates with the style of any home, DI24 is compatible with switch plates from major brands available on the market. For more information, please refer to our documentation. However, a switch plate with its graphite gray support, DI24CP, is also available as a separate accessory in our catalog.

VMF-E19I: Thermostat for inverter unit to be fixed on the side of the fan coil, fitted as standard with an air and water probe.

VMF-E2Z: User interface on the machine, to be combined with the VMF-E19 and VMF-E19I accessory.

VMF-E3: Wall mounted user interface, to be combined with accessories VMF-E19, VMF-E19I, with grids GLF_N/M and GLL_N, can be controlled with VMF-IR control.

VMF-E4DX: Wall-mounted user interface. Grey front panel PANTONE 425C (METAL).

VMF-E4X: Wall-mounted user interface. Light grey front panel PANTONE COOL GRAY 1C.

VMF-IO: Manage the unit exclusively from a centralized VMF control panel without area control panel.

VMF-IR: User interface compatible with the AER503IR, VMF-E3 thermostat and with all the grids of cassettes equipped with the infrared receiver compatible with the VMF system.

VMF-SW: Water probe (L = 2.5m) used if required in place of the standard unit supplied with the VMF-E19 and VMF-E19I thermostats for mounting it upstream of the valve.

VMHI: The VMHI panel can be used as a user interface for VMF-E19/E19I thermostats, GLFxN/M or GLLxN grids, or as an interface for the MZC system. What determines the function to be performed by the user interface is determined by its correct parametrisation and by following the electrical connections between interface and thermostat or interface and plenum.

Water valves

VCZ_X: 3-way valve kit for single-coil fan coil, RH connections, (VCZ_X4R) or LH (VCZ_X4L) for 4-pipe systems. With totally separate "heating" and "cooling" circuits. This kit consists of two 3-way insulated valves and four connections, complete with electrothermal actuators, insulating shells for the valves, and the relative hydraulic couplings. X4L version for fan coils with LH connections, and X4R for fan coils with RH connections. 230V~50Hz power supply.

VCZ: 3-way motorised valve kit for the main coil. The kit is made up of a valve with its insulating shell, actuator and relative hydraulic fittings. It can be installed on fan coils with both right and left connections. If the valve is combined with the BCZ5 or BCZ6 condensate drain pan, to ensure a better housing it is possible to remove the insulating shell.

VCZD: 2-way motorised valve kit. The kit consists of a valve, an actuator and the relative pipe fittings. It can be installed on fan coils with both right and left connections.

VJP: Control and balancing combination valve for 2 and 4 pipe systems to install outside the unit, supplied without fittings and hydraulic components. The valve, which can guarantee a constant water flow rate in the terminal, within its operating range.

Installation accessories

PCZ: Metal panel for the unit rear closing. SPCZ brackets are necessary to fix floor standing fan coils.

GA: Lower intake grille for encapsulated fan coils. Can also be used in wall-mounted or floor installations, the FIKIT accessory is needed only in the case of floor installation.

FIKIT: Structural bracket in floor installation.

DSCZ4: Condensate drainage device.

BCZ: Condensate drip. If the valve is paired with the BCZ5 or BCZ6 condensate drip tray, the insulating shell can be removed to ensure better housing.

ZXZ: Pair of stylish and structural feet

ACCESSORIES COMPATIBILITY

Control panels

Model	Ver	200	300	400	500
AER503IR (1)	DS	*	*	*	*
PRO503	DS	*	*	*	*
SA5 (2)	DS	*	*	*	*
SW3 (2)	DS	*	*	*	*
SW5 (2)	DS	*	*	*	*
TX (3)	DS	*	*	*	*

(1) Wall-mount installation.

(2) Probe for AER503IR-TX thermostats, if fitted.

(3) Wall-mounting. If the unit intake exceeds 0.7A, or several units need to be managed with a single thermostat, board SIT3 and/or SIT5 is required.

VMF system

For more information about VMF system, refer to the dedicated documentation.

Model	Ver	200	300	400	500
DI24	DS	*	*	*	*
VMF-E19I (1)	DS	*	*	*	*
VMF-EZZ	DS	*	*	*	*
VMF-E3	DS,DT	*	*	*	*
VMF-E4DX	DS,DT	*	*	*	*
VMF-E4X	DS,DT	*	*	*	*
VMF-I0	DS	*	*	*	*
VMF-IR	DS	*	*	*	*
VMF-SW	DS	*	*	*	*
VMHI	DS	*	*	*	*

(1) Mandatory accessory.

Water valves

3 way valve kit

Model	Ver	200	300	400	500
VCZ41 (1)	D,DS,DT	*			
VCZ4124 (2)	D,DS,DT	*			
VCZ42 (1)	D,DS,DT		*	*	*
VCZ4224 (2)	D,DS,DT		*	*	*

(1) 230V~50Hz

(2) 24V

2 way valve kit

Model	Ver	200	300	400	500
VCZD1 (1)	D,DS,DT	*			
VCZD124 (2)	D,DS,DT	*			
VCZD2 (1)	D,DS,DT		*	*	*
VCZD224 (2)	D,DS,DT		*	*	*

(1) 230V~50Hz

(2) 24V

Valve Kit for 4 pipe systems

Model	Ver	200	300	400	500
VCZ1X4L (1)	D,DS,DT	*			
VCZ1X4R (1)	D,DS,DT	*			
VCZ2X4L (1)	D,DS,DT		*	*	*
VCZ2X4R (1)	D,DS,DT		*	*	*

(1) The valves can be combined with the units if there is a control panel for managing them.

Combined Adjustment and Balancing Valve Kit

Model	Ver	200	300	400	500
VJP060 (1)	D,DS,DT	*	*		
VJP060M (2)	D,DS,DT	*	*		
VJP090 (1)	D,DS,DT			*	*
VJP090M (2)	D,DS,DT			*	*

(1) 230V~50Hz

(2) 24V

Installation accessories

Condensate recirculation device

Model	Ver	200	300	400	500
DSCZ4 (1)	D,DS,DT	*	*	*	*

(1) DSCZ4 due to space problems inside the unit, the VCZ1-2-3-4 X4L/R valves cannot be mounted together with the amp/AMPZ accessories, with all the condensate collection trays. With the VMF-E19/E19I thermostats, please contact the head office.

Condensate drip

Model	Ver	200	300	400	500
BCZ4 (1)	D,DS,DT	.	.	.	.

(1) For vertical installation.

Panel closing the rear of the unit

Model	Ver	200	300	400	500
PCZ200	D,DS,DT	.			
PCZ300	D,DS,DT		.		
PCZ500	D,DS,DT			.	.

Ornamental grille

Model	Ver	200	300	400	500
GA200	D,DS,DT	.			
GA300	D,DS,DT		.		
GA500	D,DS,DT			.	.

Supports to be combined with the ornamental grille (GA) for floor installation of the fan coil

Model	Ver	200	300	400	500
FIKIT200	D,DS,DT	.			
FIKIT300	D,DS,DT		.		
FIKIT500	D,DS,DT			.	.

Pair of stylish structural feet

Model	Ver	200	300	400	500
ZXZ	D,DS,DT	.	.	.	.

PERFORMANCE SPECIFICATIONS**2-pipe**

	FCZI200D			FCZI300D			FCZI400D			FCZI500D		
	1	2	3	1	2	3	1	2	3	1	2	3
	L	M	H	L	M	H	L	M	H	L	M	H

Heating performance 70 °C / 60 °C (1)

Heating capacity	kW	2,02	2,95	3,70	3,47	4,46	5,50	4,32	5,74	7,15	5,27	7,31	8,50
Water flow rate system side	l/h	177	258	324	304	391	482	379	503	627	462	641	745
Pressure drop system side	kPa	6	12	18	7	12	18	9	16	24	12	21	28

Heating performance 45 °C / 40 °C (2)

Heating capacity	kW	1,00	1,46	1,84	1,72	2,21	2,73	2,14	2,85	3,55	2,62	3,63	4,22
Water flow rate system side	l/h	174	254	319	299	385	475	373	495	617	455	631	734
Pressure drop system side	kPa	6	12	18	8	12	18	10	16	24	12	21	28

Cooling performance 7 °C / 12 °C

Cooling capacity	kW	0,89	1,28	1,60	1,68	2,17	2,65	2,20	2,92	3,60	2,68	3,69	4,25
Sensible cooling capacity	kW	0,71	1,05	1,33	1,26	1,65	2,04	1,59	2,14	2,67	1,94	2,73	3,18
Water flow rate system side	l/h	153	221	275	288	374	456	379	503	619	460	634	731
Pressure drop system side	kPa	7	13	18	8	13	18	10	17	24	13	23	29

Fan

Type	type	Centrifugal			Centrifugal			Centrifugal			Centrifugal		
Fan motor	type	Inverter			Inverter			Inverter			Inverter		
Number	no.	1			2			2			2		
Air flow rate	m ³ /h	140	220	290	260	350	450	330	460	600	400	600	720
Input power	W	5	8	14	5	7	13	5	10	18	8	18	34
Signal 0-10V	%	44	68	90	52	70	90	49	68	90	50	74	90

Fan coil sound data (3)

Sound power level	dB(A)	31,0	43,0	50,0	34,0	41,0	48,0	37,0	44,0	41,0	42,0	51,0	56,0
Sound pressure level	dB(A)	23,0	35,0		26,0	33,0		29,0	36,0		34,0	43,0	

Finned pack heat exchanger

Water content main heat exchanger	l	0,5			0,8			1,0			1,0		
-----------------------------------	---	-----	--	--	-----	--	--	-----	--	--	-----	--	--

Diameter hydraulic fittings

Main heat exchanger	Ø	1/2"			3/4"			3/4"			3/4"		
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Power supply

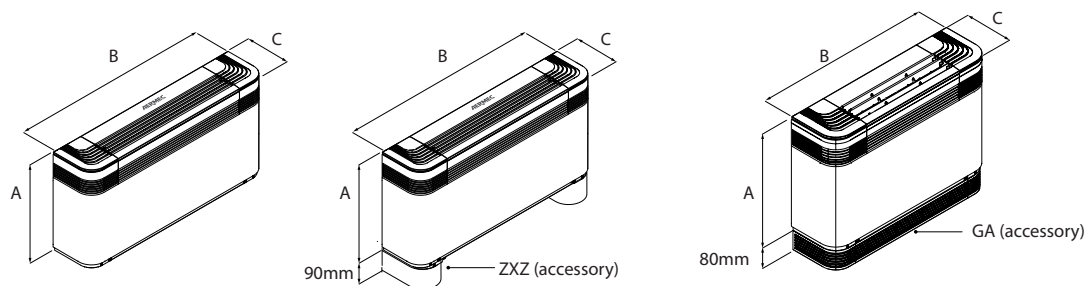
Power supply	230V~50Hz			230V~50Hz			230V~50Hz			230V~50Hz		
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(1) Room air temperature 20 °C d.b.; Water (in/out) 70 °C/60 °C

(2) Room air temperature 20 °C d.b.; Water (in/out) 45 °C/40 °C; EUROVENT

(3) Aermec determines the sound power value on the basis of measurements taken in accordance with standard UNI EN 16583:15, respecting the Eurovent certification.

DIMENSIONS



		FCZI200D	FCZI300D	FCZI400D	FCZI500D
Dimensions and weights					
A	mm	486	486	486	486
B	mm	750	980	1200	1200
C	mm	220	220	220	220
Empty weight	kg	15	17	23	22

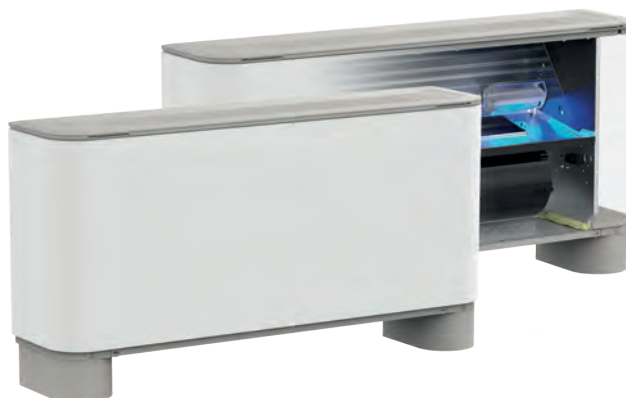
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Aermec S.p.A.
Via Roma, 996 - 37040 Bevilacqua (VR) - Italia
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FCZ-H

Fan coil with the photocatalytic device, for universal and floor installation

- Photocatalytic device
- Tested effectiveness against viruses, bacteria and allergens
- Active against the SARS-CoV-2 virus, even on surfaces
- Certifications VDI 6022



DESCRIPTION

Fan coil with built-in **photocatalytic device**.

Active against the airborne Sars-CoV-2 virus (95%-99% abatement efficacy after 20 minutes of operation tested at the Virostatics laboratory in Alghero).

Active against the SARS-CoV-2 virus, even on surfaces - 84% effectiveness after 12 h (tests carried out in collaboration with the Department of Microbiology of the University of Padua).

Suitable for air conditioning in places requiring optimum hygiene levels, such as:

- Hospitals
- Dentists' surgeries
- Doctors' and vets' surgeries
- Analysis laboratories
- Waiting rooms
- Public premises

They can be installed in any type of 2-pipe system (version for 4-pipe systems available upon request) and in combination with any heat generator, even at low temperatures. Thanks to the availability of several versions and configurations, it's easy to find the right solution for every need.

VERSIONS

- **H** Unit with shell without thermostat - vertical and horizontal installation.
- **HP** Unit without shell and without thermostat - vertical and horizontal installation. Can also be supplied in a configuration equipped with a boosted asynchronous motor (HPO).
- **HT** Unit with shell and thermostat - vertical installation.

FEATURES

Case

Metallic protective cabinet with rustproofing polyester paint RAL 9003. The head with adjustable air distribution grille is made of plastic RAL 7047. When the grille closes, the fan coil automatically switches off.

Ventilation group

Comprised of a dual intake centrifugal fan that is particularly silent, statically and dynamically balanced and directly coupled to the motor shaft. The electric motor is single-phase and asynchronous, mounted on anti-vibration supports, and has a permanently engaged condenser. The scroll that protects the fan can be extracted and inspected, for easy and effective cleaning.

- *Apart from the traditional asynchronous motor, each unit can also be supplied with an inverter (brushless) motor. Refer to the relative FCZI - H datasheet*

Finned pack heat exchanger

With copper pipes and aluminium louvers, the main heat exchanger has female gas water connections on the left side and the manifolds have air vents.

The coil is not suitable for use in corrosive atmosphere or in environments where aluminium may be subject to corrosion.

- *The coil is not reversible during installation but, when ordering, you can choose units with the coil water connections on the right (at no extra charge).*

Air filter

Air filter class **COARSE 25%** for all versions; easy to pull out and clean. Shrouds can be pulled out and inspected for easy and effective cleaning.

PHOTOCATALYTIC DEVICE AT THE HEART OF THE FAN COIL

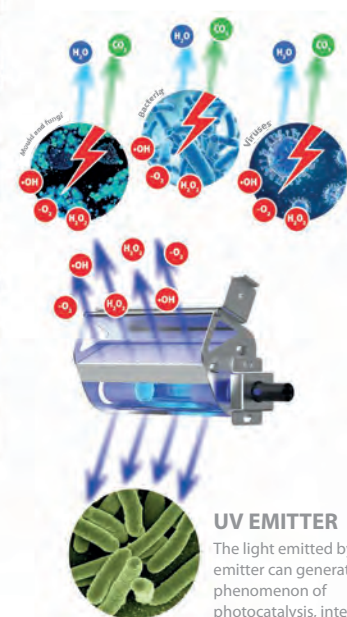


FILTER

The filter holds back dust, ash and "natural allergens" like pollen, spores, etc.

TITANIUM DIOXIDE CATALYS

Titanium dioxide (TiO_2) has a high degree of thermal and chemical stability, isn't toxic for humans and isn't expensive, but at the same time it's easily procurable, widely available, bio-compatible, and highly sensitive to UV light. The catalyst has a honeycomb form and increases the photocatalysis reaction surface, thereby maximising and guaranteeing system efficiency. The interaction of the catalyst with the UV light (photocatalysis) creates and releases highly reactive and oxidising species (H_2O_2 and $\text{OH}^\cdot$) that attack the polluting agents, breaking them down and eliminating them. The result is a powerful biocidal action with the decomposition of the VOC (Volatile Organic Compounds) and the release of harmless substances like CO_2 and H_2O .



UV EMITTER

The light emitted by the emitter can generate the phenomenon of photocatalysis, interacting with the titanium dioxide catalyst (TiO_2). The absorption level is 5,4W.

GUIDE TO SELECTING THE POSSIBLE CONFIGURATIONS

Configuration options FCZ - H

Field	Description
1,2,3	FCZ
4	Size 2, 3, 4, 5, 6, 9
5	main heat exchanger
0	Standard
5	Oversized
6	Secondary heat exchanger
0	Without coil
7	Version
H	Unit with shell without thermostat - vertical and horizontal mount
HP	Unit without shell and thermostat - vertical and horizontal mount
HPO	Unit without shell and thermostat with upgraded motor - vertical and horizontal mount
HPOR	Unit without shell and thermostat with upgraded motor - vertical and horizontal installation - water connections on the right
HPR	Unit without shell and thermostat - vertical and horizontal installation - water connections on the right
HR	Unit with shell without thermostat - vertical and horizontal installation - water connections on the right
HT	Unit with shell with thermostat - vertical mount
HTR	Unit with shell with thermostat - vertical mount - water connections on the right

ACCESSORIES

Control panels and dedicated accessories - FCZ-H

AER503IR: Flush-mounting thermostat with backlit display, capacitive keypad and infrared receiver, for controlling both brushless fan coils and those

with an asynchronous motor. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air puri-

fying devices (Cold Plasma and germicidal lamp), with radiant plate or with FCZ-D twin delivery (Dualjet). In addition, it can control systems with radiant panels or mixed (fan coil and radiant floor) systems. Being equipped with an infrared receiver, it can, in turn, be controlled by the VMF-IR remote control.

PRO503: Wall box for AER503IR and VMF-E4 thermostats.

SA5: air probe kit (L = 15 m) with probe-locking cable grommet.

SA503: Wall-mountable ambient sensor, compatible with AER503IR.

SIT3: Thermostat Interface Card allowing the creation of a network of fan coils (max. 10) commanded by a central control panel (selector or thermostat). Commands the 3 fan speeds and must be installed on each fan coil within the network; receives the commands from the selector or the SIT5 card. In case you decide to install Aermec thermostats and current absorbed by the unit exceeds 0.7 A, you're obliged to include SIT3 accessory.

SIT5: Thermostat Interface Card allowing the creation of a network of fan coils (max. 10) commanded by a central control panel. Commands the 3 fan speeds and up to 2 valves (four pipe systems); sends the thermostat's commands to the fan coil network.

SW3: Water probe (L = 2.5 m) for controlling the minimum and maximum and to allow automatic seasonal switching for electronic thermostats fitted with water side changeover.

SW5: water probe kit (L = 15m) with probe-holder connection point, fixing clip and probe-holder from heat exchanger.

TX: Wall-mounting thermostat for controlling either brushless fan coils or those with asynchronous motors for 2/4 pipe. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices, radiant plate or FCZ-D twin delivery (Dualjet).

TXB: Wall-mounting thermostat for controlling either brushless fan coils or those with asynchronous motors for 2/4 pipe. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices, radiant plate or FCZ-D twin delivery (Dualjet).

VMF system

■ The fan coil can also be teamed up with the VMF system; please contact headquarters about compatibility with the various system components.

Common accessories

VCZ: 3-way motorised valve kit for the main coil. The kit is made up of a valve with its insulating shell, actuator and relative hydraulic fittings. It can be installed on fan coils with both right and left connections. If the valve is combined with the BCZ5 or BCZ6 condensate drain pan, to ensure a better housing it is possible to remove the insulating shell.

VCZD: 2-way motorised valve kit. The kit consists of a valve, an actuator and the relative pipe fittings. It can be installed on fan coils with both right and left connections.

VCFD: Motorized 2-way valve kit without insulating shell, can be installed on the main or secondary battery or a battery that is only warm. The kit is made up of a valve, actuator and relative hydraulic fittings. It can be installed on fan coils with connections on the right and on the left.

VCF41 - 42 - 43 - for main heat exchanger: 3-way motorised valve kit for the main coil. The kit is made up of a valve with its insulating shell, actuator and relative hydraulic fittings. It can be installed on fan coils with both right and left connections. If the valve is combined with the BCZ5 or BCZ6 condensate drain pan, to ensure a better housing it is possible to remove the insulating shell.

VJP: Control and balancing combination valve for 2 and 4 pipe systems to install outside the unit.

AMP: Wall mounting kit

DSC: Condensate drainage device.

BCZ: Condensate drip. If the valve is paired with the BCZ5 or BCZ6 condensate drip tray, the insulating shell can be removed to ensure better housing.

PCZ: Metal panel for the unit rear closing. SPCZ brackets are necessary to fix floor standing fan coils.

GA: Lower intake grille for encapsulated fan coils. Can also be used in wall-mounted or floor installations, the FIKIT accessory is needed only in the case of floor installation.

FIKIT: Structural bracket in floor installation.

ZXZ: Pair of stylish and structural feet

BC: Condensate drip.

Ventilcassaforma: Galvanised sheet metal template. It makes it possible to obtain directly in the wall a space for housing the fan coil.

SPCZ: Brackets to fix the fan coil to the floor.

ACCESSORIES COMPATIBILITY

Control panels and dedicated accessories - FCZ-H

Model	Ver	200	300	400	500	600	900	950
AER503IR (1)	H,HP	*	*	*	*	*	*	*
PRO503	H,HP	*	*	*	*	*	*	*
SA5 (2)	H,HP,HT	*	*	*	*	*	*	*
SA503 (3)	H,HP	*	*	*	*	*	*	*
SIT3 (4)	H,HP,HT	*	*	*	*	*	*	*
SIT5 (5)	H,HP,HT	*	*	*	*	*	*	*
SW3 (2)	H,HP,HT	*	*	*	*	*	*	*
SW5 (2)	H,HP,HT	*	*	*	*	*	*	*
TX (6)	H,HP	*	*	*	*	*	*	*
TXB (7)	H,HP	*	*	*	*	*	*	*

(1) Wall-mount installation.

(2) Probe for AER503IR-TX thermostats, if fitted.

(3) Thermostat probe for AER503IR if available.

(4) Cards for AER503IR-TX thermostats, if present, to be installed if the unit absorption exceeds 0,7 Ampere.

(5) Probe for AER503IR-TX thermostats, if fitted.

(6) Wall-mounting. If the unit intake exceeds 0.7A, or several units need to be managed with a single thermostat, board SIT3 and/or SIT5 is required.

(7) Installation on the fan coil.

Common accessories

3 way valve kit

Model	Ver	200	300	400	500	600	900	950
VCZ41 (1)	H,HP,HT	*						
VCZ4124 (2)	H,HP,HT	*						
VCZ42 (1)	H,HP,HT		*	*	*	*		
VCZ4224 (2)	H,HP,HT		*	*	*	*		
VCZ43 (1)	H,HP,HT						*	*
VCZ4324 (2)	H,HP,HT						*	*

(1) 230V~50Hz

(2) 24V

2 way valve kit

Model	Ver	200	300	400	500	600	900	950
VCZD1 (1)	H,HP,HT	*						
VCZD124 (2)	H,HP,HT	*						

Model	Ver	200	300	400	500	600	900	950
VCZD2 (1)	H,HP,HT		*	*	*	*		
VCZD224 (2)	H,HP,HT		*	*	*	*		
VCZD3 (1)	H,HP,HT						*	*
VCZD324 (2)	H,HP,HT						*	*

(1) 230V~50Hz

(2) 24V

Combined Adjustment and Balancing Valve Kit

Model	Ver	200	300	400	500	600	900	950
VJP060 (1)	H,HP,HT	*	*					
VJP060M (2)	H,HP,HT	*	*					
VJP090 (1)	H,HP,HT			*	*	*		
VJP090M (2)	H,HP,HT			*	*	*		
VJP150 (1)	H,HP,HT						*	*
VJP150M (2)	H,HP,HT						*	*

(1) 230V~50Hz

(2) 24V

Wall mounting kit

Ver	200	300	400	500	600	900	950
H	AMP20	AMP20	AMP20	AMP20	AMP20	AMP20	AMP20
HP	AMP20	AMP20	AMP20	AMP20	AMP20	AMP20	AMP20

Condensate drainage

Model	Ver	200	300	400	500	600	900	950
DSCZ4 (1)	HP	*	*	*	*	*	*	*

(1) DSCZ4 due to space problems inside the unit, the VCZ1-2-3-4 X4L/R valves cannot be mounted together with the amp/AMPZ accessories, with all the condensate collection trays. With the VMF-E19/E19I thermostats, please contact the head office.

Condensate drip

Ver	200	300	400	500	600	900	950
H, HP, HT	BCZ4 (1), BCZ5 (2)	BCZ4 (1), BCZ5 (2)	BCZ4 (1), BCZ5 (2)	BCZ4 (1), BCZ5 (2)	BCZ4 (1), BCZ5 (2)	BCZ6 (2)	BCZ6 (2)

(1) For vertical installation.

(2) For horizontal installation.

Ver	200	300	400	500	600	900	950
HP	BC8 (1)	BC8 (1)	BC8 (1)	BC8 (1)	BC8 (1)	BC9 (1)	BC9 (1)

(1) For horizontal installation.

Panel closing the rear of the unit

Ver	200	300	400	500	600	900	950
H, HT	PCZ200	PCZ300	PCZ500	PCZ500	PCZ800	PCZ1000	PCZ1000

Grille also applicable for floor installation

Ver	200	300	400	500	600	900	950
H, HP, HT	GA200	GA300	GA500	GA500	GA800	GA800	GA800

Metal supports for GA grille

Ver	200	300	400	500	600	900	950
H, HP, HT	FIKIT200	FIKIT300	FIKIT500	FIKIT500	FIKIT800	FIKIT800	FIKIT800

Ventilcassaforma

Ver	200	300	400	500	600	900	950
HP	CHF22	CHF32	CHF42	CHF42	CHF62	CHF62	CHF62

Brackets to fix the fan coil to the floor.

Ver	200	300	400	500	600	900	950
H, HT	SPCZ	SPCZ	SPCZ	SPCZ	SPCZ	SPCZ	SPCZ

Pair of stylish structural feet

Ver	200	300	400	500	600	900	950
H, HP, HT	ZXZ	ZXZ	ZXZ	ZXZ	ZXZ	ZXZ	ZXZ

PERFORMANCE SPECIFICATIONS

2-pipe

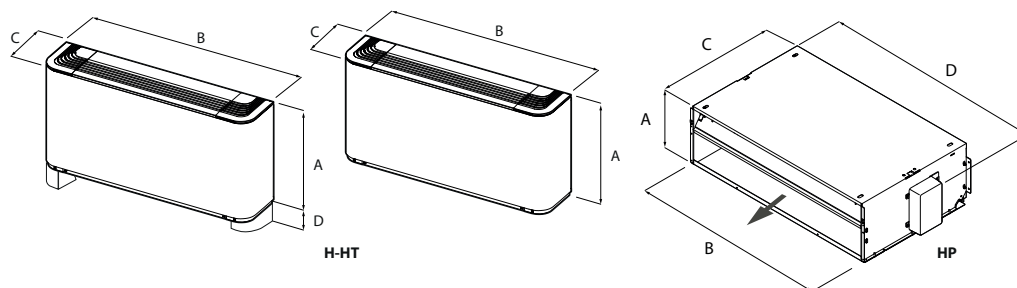
		FCZ200H			FCZ250H			FCZ300H			FCZ350H			FCZ400H			FCZ450H		
		1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
		L	M	H	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H
Heating performance 70 °C / 60 °C (1)																			
Heating capacity	kW	2,02	2,95	3,70	2,20	3,18	4,05	3,47	4,46	5,50	3,77	4,92	6,15	4,32	5,74	7,15	4,57	6,29	7,82
Water flow rate system side	l/h	177	258	324	193	278	355	304	391	482	330	431	539	379	503	627	400	551	685
Pressure drop system side	kPa	6	12	18	7	15	23	7	12	18	8	14	20	9	16	24	6	11	16
Heating performance 45 °C / 40 °C (2)																			
Heating capacity	kW	1,00	1,46	1,84	1,09	1,58	2,01	1,72	2,21	2,73	1,87	2,44	3,06	2,14	2,85	3,55	2,27	3,12	3,88
Water flow rate system side	l/h	174	254	319	190	274	350	299	385	475	325	425	531	373	495	617	394	543	675
Pressure drop system side	kPa	6	12	18	8	15	22	8	12	18	8	14	20	10	16	24	6	11	16
Cooling performance 7 °C / 12 °C																			
Cooling capacity	kW	0,89	1,28	1,60	1,06	1,55	1,94	1,68	2,17	2,65	1,89	2,46	3,02	2,20	2,92	3,60	2,41	3,21	4,03
Sensible cooling capacity	kW	0,71	1,05	1,33	0,79	1,20	1,52	1,26	1,65	2,04	1,33	1,76	2,18	1,59	2,14	2,67	1,69	2,30	2,90
Water flow rate system side	l/h	153	221	275	182	267	334	288	374	456	350	460	560	379	503	619	414	552	694
Pressure drop system side	kPa	7	13	18	8	17	25	8	13	18	11	18	25	10	17	24	9	15	22
Fan																			
Type	type	Centrifugal			Centrifugal			Centrifugal			Centrifugal			Centrifugal			Centrifugal		
Fan motor	type	Asynchronous			Asynchronous			Asynchronous			Asynchronous			Asynchronous			Asynchronous		
Number	no.	1			1			2			2			2			2		
Air flow rate	m³/h	140	220	290	140	220	290	260	350	450	260	350	450	330	460	600	330	460	600
Input power	W	25	29	33	25	29	33	25	33	44	25	33	44	30	43	57	30	43	57
Electrical wiring		V1	V2	V3	V1	V2	V3	V1	V2	V3	V1	V2	V3	V1	V2	V3	V1	V2	V3
Diameter hydraulic fittings																			
Type	type	Gas - F			Gas - F			Gas - F			Gas - F			Gas - F			Gas - F		
Main heat exchanger	Ø	1/2"			1/2"			3/4"			3/4"			3/4"			3/4"		
Fan coil sound data (3)																			
Sound power level	dB(A)	35,0	46,0	51,0	35,0	46,0	51,0	34,0	41,0	48,0	34,0	41,0	48,0	37,0	44,0	51,0	37,0	44,0	51,0
Sound pressure level	dB(A)	27,0	38,0	43,0	27,0	38,0	43,0	26,0	33,0	40,0	26,0	33,0	40,0	29,0	36,0	43,0	29,0	36,0	43,0
Power supply																			
Power supply		230V~50Hz			230V~50Hz			230V~50Hz			230V~50Hz			230V~50Hz			230V~50Hz		
		FCZ500H			FCZ550H			FCZ600H			FCZ650H			FCZ900H			FCZ950H		
		1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
		L	M	H	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H
Heating performance 70 °C / 60 °C (1)																			
Heating capacity	kW	5,27	7,31	8,50	5,82	8,34	9,75	6,50	8,10	10,00	7,19	9,15	11,50	10,77	13,35	15,14	11,20	14,42	17,10
Water flow rate system side	l/h	462	641	745	510	731	855	570	710	877	631	802	1008	945	1171	1328	982	1264	1500
Pressure drop system side	kPa	12	21	28	10	20	26	12	18	26	14	21	31	12	17	22	16	25	33
Heating performance 45 °C / 40 °C (2)																			
Heating capacity	kW	2,62	3,63	4,22	2,89	4,14	4,85	3,32	4,03	4,97	3,57	4,55	5,72	5,35	6,64	7,53	5,57	7,17	8,50
Water flow rate system side	l/h	455	631	734	502	720	842	561	699	863	621	790	993	930	1152	1307	967	1245	1476
Pressure drop system side	kPa	12	21	28	10	20	26	12	18	26	14	20	31	12	17	22	15	24	33
Cooling performance 7 °C / 12 °C																			
Cooling capacity	kW	2,68	3,69	4,25	2,91	4,13	4,79	3,22	3,90	4,65	3,95	4,80	5,67	4,29	5,00	6,91	5,77	7,32	8,60
Sensible cooling capacity	kW	1,94	2,73	3,18	2,07	2,98	3,49	2,56	3,17	3,92	2,78	3,43	4,12	2,97	3,78	5,68	3,80	4,87	5,78
Water flow rate system side	l/h	460	634	731	501	711	824	554	671	800	595	825	975	738	860	1189	992	1259	1479
Pressure drop system side	kPa	13	23	29	12	22	28	14	19	26	15	21	28	10	13	22	15	23	30
Fan																			
Type	type	Centrifugal			Centrifugal			Centrifugal			Centrifugal			Centrifugal			Centrifugal		
Fan motor	type	Asynchronous			Asynchronous			Asynchronous			Asynchronous			Asynchronous			Asynchronous		
Number	no.	2			2			3			3			3			3		
Air flow rate	m³/h	400	600	720	400	600	720	520	720	900	520	720	900	700	930	1140	700	930	1140
Input power	W	38	52	76	38	52	76	38	60	91	38	60	91	59	80	106	59	80	106
Electrical wiring		V1	V2	V3	V1	V2	V3	V1	V2	V3	V1	V2	V3	V1	V2	V3	V1	V2	V3
Diameter hydraulic fittings																			
Type	type	Gas - F			Gas - F			Gas - F			Gas - F			Gas - F			Gas - F		
Main heat exchanger	Ø	3/4"			3/4"			3/4"			3/4"			3/4"			3/4"		
Fan coil sound data (3)																			
Sound power level	dB(A)	42,0	51,0	56,0	42,0	51,0	56,0	42,0	51,0	57,0	42,0	51,0	57,0	51,0	57,0	62,0	51,0	57,0	61,0
Sound pressure level	dB(A)	34,0	43,0	48,0	34,0	43,0	48,0	34,0	43,0	49,0	34,0	43,0	49,0	43,0	49,0	54,0	43,0	49,0	53,0
Power supply																			
Power supply		230V~50Hz			230V~50Hz			230V~50Hz			230V~50Hz			230V~50Hz			230V~50Hz		

(1) Room air temperature 20 °C d.b.; Water (in/out) 70 °C/60 °C

(2) Room air temperature 20 °C d.b.; Water (in/out) 45 °C/40 °C; EUROVENT

(3) Aermec determines the sound power value on the basis of measurements taken in accordance with standard UNI EN 16583:15, respecting the Eurovent certification.

DIMENSIONS



Size			200	300	400	500	600	900	950
Dimensions and weights									
A	H,HT	mm	486	486	486	486	486	591	591
	HP	mm	216	216	216	216	216	216	216
B	H,HT	mm	750	980	1200	1200	1320	1320	1320
	HP	mm	562	793	1013	1013	1147	1147	1147
C	H,HT	mm	220	220	220	220	220	220	220
	HP	mm	453	453	453	453	453	558	558
D	H,HT	mm	90	90	90	90	90	90	90
	HP	mm	522	753	973	973	1122	1122	1122
Empty weight	H,HT	kg	15	17	23	22	29	34	34
	HP	kg	12	14	20	23	29	32	32

Aermec reserves the right to make any modifications deemed necessary.
All data is subject to change without notice. Aermec does not assume
responsibility or liability for errors or omissions.

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FCZI-H

Fan coil with the photocatalytic device, for universal and floor installation

- **Photocatalytic device**
- **Tested effectiveness against viruses, bacteria and allergens**
- **Active against the SARS-CoV-2 virus, even on surfaces**
- **Certifications VDI 6022**



DESCRIPTION

Fan coil with built-in **photocatalytic device**.

Active against the airborne Sars-CoV-2 virus (95%-99% abatement efficacy after 20 minutes of operation tested at the Virostatics laboratory in Alghero).

Active against the SARS-CoV-2 virus, even on surfaces - 84% effectiveness after 12 h (tests carried out in collaboration with the Department of Microbiology of the University of Padua).

Suitable for air conditioning in places requiring optimum hygiene levels, such as:

- Hospitals
- Dentists' surgeries
- Doctors' and vets' surgeries
- Analysis laboratories
- Waiting rooms
- Public premises

They can be installed in any type of 2-pipe system (version for 4-pipe systems available upon request) and in combination with any heat generator, even at low temperatures. Thanks to the availability of several versions and configurations, it's easy to find the right solution for every need.

VERSIONS

- **H** Unit with shell without thermostat - vertical and horizontal installation.
- **HP** Unit without shell and without thermostat - vertical and horizontal installation.
- **HT** Unit with shell and thermostat - vertical installation.

FEATURES

Case

Metallic protective cabinet with rustproofing polyester paint RAL 9003. The head with adjustable air distribution grille is made of plastic RAL 7047. When the grille closes, the fan coil automatically switches off.

Ventilation group

Comprised of a dual intake centrifugal fan that is particularly silent, statically and dynamically balanced and directly coupled to the motor shaft.

The Brushless electric motor with 0-100% continuous speed variation, which allows precise adaptation to the real demands of the internal environment without temperature fluctuations.

Continuous air flow rate variation is made possible by a 0-10V signal generated by Aermec adjustment and control commands or by independent regulation systems.

This lowers noise and generates a better response to heat loads and a higher stability in the desired temperature inside the room.

The high efficiency even with low speed, makes it possible to reduce power consumption (more than 50% less than fan coils with traditional motors).

The scroll that protects the fan can be extracted and inspected, for easy and effective cleaning.

■ Apart from the brushless motor, each unit can also be supplied with a single-phase asynchronous motor. Refer to the relative FCZ - H datasheet

Finned pack heat exchanger

With copper pipes and aluminium louvers, the main heat exchanger has female gas water connections on the left side and the manifolds have air vents.

The coil is not suitable for use in corrosive atmosphere or in environments where aluminium may be subject to corrosion.

■ The coil is not reversible during installation but, when ordering, you can choose units with the coil water connections on the right (at no extra charge).

Air filter

Air filter class **COARSE 25%** for all versions; easy to pull out and clean. Shrouds can be pulled out and inspected for easy and effective cleaning.

PHOTOCATALYTIC DEVICE AT THE HEART OF THE FAN COIL

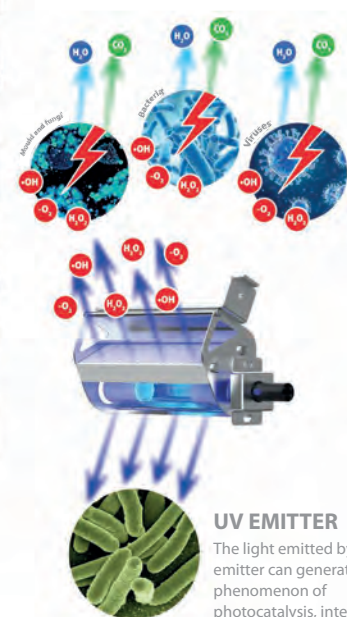


FILTER

The filter holds back dust, ash and "natural allergens" like pollen, spores, etc.

TITANIUM DIOXIDE CATALYS

Titanium dioxide (TiO_2) has a high degree of thermal and chemical stability, isn't toxic for humans and isn't expensive, but at the same time it's easily procurable, widely available, bio-compatible, and highly sensitive to UV light. The catalyst has a honeycomb form and increases the photocatalysis reaction surface, thereby maximising and guaranteeing system efficiency. The interaction of the catalyst with the UV light (photocatalysis) creates and releases highly reactive and oxidising species (H_2O_2 and $\text{OH}^\cdot$) that attack the polluting agents, breaking them down and eliminating them. The result is a powerful biocidal action with the decomposition of the VOC (Volatile Organic Compounds) and the release of harmless substances like CO_2 and H_2O .



UV EMITTER

The light emitted by the emitter can generate the phenomenon of photocatalysis, interacting with the titanium dioxide catalyst (TiO_2). The absorption level is 5,4W.

GUIDE TO SELECTING THE POSSIBLE CONFIGURATIONS

Field	Description
1,2,3,4	FCZI
5	Size 2, 3, 4, 5, 7, 9
6	main heat exchanger
0	Standard
5	Oversized
7	Secondary heat exchanger
0	Without coil
8	Version
H	Unit with shell without thermostat - vertical and horizontal mount
HP	Unit without shell and thermostat - vertical and horizontal mount
HPR	Unit without shell and thermostat - vertical and horizontal installation - water connections on the right
HR	Unit with shell without thermostat - vertical and horizontal installation - water connections on the right
HT	Unit with shell with thermostat - vertical mount
HTR	Unit with shell with thermostat - vertical mount - water connections on the right

ACCESSORIES

Control panels and dedicated accessories - FCZI-H

AER503IR: Flush-mounting thermostat with backlit display, capacitive key-pad and infrared receiver, for controlling both brushless fan coils and those with an asynchronous motor. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices (Cold Plasma and germicidal lamp), with radiant plate or with FCZ-D twin delivery (Dualjet). In addition, it can control systems with radiant panels or mixed (fan coil and radiant floor) systems. Being equipped with an infrared receiver, it can, in turn, be controlled by the VMF-IR remote control.

PRO503: Wall box for AER503IR and VMF-E4 thermostats.

SAS: air probe kit (L = 15 m) with probe-locking cable grommet.

SW3: Water probe (L = 2.5 m) for controlling the minimum and maximum and to allow automatic seasonal switching for electronic thermostats fitted with water side changeover.

SW5: water probe kit (L = 15m) with probe-holder connection point, fixing clip and probe-holder from heat exchanger.

TX: Wall-mounting thermostat for controlling either brushless fan coils or those with asynchronous motors for 2/4 pipe. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices, radiant plate or FCZ-D twin delivery (Dualjet).

DI24: Flush-mounted interface (503 box) with 2.4" touch screen display to be combined with VMF-E19, VMF-E19I accessories. It allows you to regulate and monitor the temperature inside rooms precisely and on time; in addition to accessing and interacting with your system's operating information, parameters and alarms, it allows you to set time slots. Thanks to its Wi-Fi connection, DI24 in combination with the AerSuite APP (available for Android and iOS) can also be remotely controlled. All programming and most functions are done in a simple and intuitive way using the APP. To allow for customization of the interface so that it seamlessly integrates with the style of any home, DI24 is compatible with switch plates from major brands available on the market. For more information, please refer to our documentation. However, a switch plate with its graphite gray support, DI24CP, is also available as a separate accessory in our catalog.

VMF-E19I: Thermostat for inverter unit to be fixed on the side of the fan coil, fitted as standard with an air and water probe.

VMF-E22: User interface on the machine, to be combined with the VMF-E19 and VMF-E19I accessory.

VMF-E3: Wall mounted user interface, to be combined with accessories VMF-E19, VMF-E19I, with grids GLF_N/M and GLL_N, can be controlled with VMF-IR control.

VMF-E4DX: Wall-mounted user interface. Grey front panel PANTONE 425C (METAL).

VMF-E4X: Wall-mounted user interface. Light grey front panel PANTONE COOL GRAY 1C.

VMF-IO: Manage the unit exclusively from a centralized VMF control panel without area control panel.

VMF-IR: User interface compatible with the AER503IR, VMF-E3 thermostat and with all the grids of cassettes equipped with the infrared receiver compatible with the VMF system.

VMF-LON: Expansion allowing the thermostat to interface with BMS systems that use the LON protocol.

VMF-SW1: Additional water probe (L = 2.5m) to be used if required for 4-pipe systems with the VMF-E19 and VMF-E19I thermostats for maximum control in the cold range

VMHI: The VMHI panel can be used as a user interface for VMF-E19/E19I thermostats, GLFxN/M or GLLxN grids, or as an interface for the MZC system. What determines the function to be performed by the user interface is determined by its correct parametrisation and by following the electrical connections between interface and thermostat or interface and plenum.

VMF system

■ *The fan coil can also be teamed up with the VMF system; please contact headquarters about compatibility with the various system components.*

Common accessories

VCZ: 3-way motorised valve kit for the main coil. The kit is made up of a valve with its insulating shell, actuator and relative hydraulic fittings. It can be installed on fan coils with both right and left connections. If the valve is combined with the BCZ5 or BCZ6 condensate drain pan, to ensure a better housing it is possible to remove the insulating shell.

VCZD: 2-way motorised valve kit. The kit consists of a valve, an actuator and the relative pipe fittings. It can be installed on fan coils with both right and left connections.

VJP: Control and balancing combination valve for 2 and 4 pipe systems to install outside the unit.

AMP: Wall mounting kit

DSC: Condensate drainage device.

BCZ: Condensate drip. If the valve is paired with the BCZ5 or BCZ6 condensate drip tray, the insulating shell can be removed to ensure better housing.

PCZ: Metal panel for the unit rear closing. SPCZ brackets are necessary to fix floor standing fan coils.

GA: Lower intake grille for encapsulated fan coils. Can also be used in wall-mounted or floor installations, the FIKIT accessory is needed only in the case of floor installation.

FIKIT: Structural bracket in floor installation.

ZXZ: Pair of stylish and structural feet

BC: Condensate drip.

Ventilcassaforma: Galvanised sheet metal template. It makes it possible to obtain directly in the wall a space for housing the fan coil.

SPCZ: Brackets to fix the fan coil to the floor.

ACCESSORIES COMPATIBILITY

Control panels and dedicated accessories

Model	Ver	200	250	300	350	400	450	500
AER503IR (1)	H,HP	*	*	*	*	*	*	*
PRO503	H,HP	*	*	*	*	*	*	*
SAS (2)	H,HP	*	*	*	*	*	*	*
SW3 (2)	H,HP,HT	*	*	*	*	*	*	*
SW5 (2)	H,HP	*	*	*	*	*	*	*
	HT		*		*		*	
TX (3)	H,HP,HT	*	*	*	*	*	*	*

Model	Ver	550	700	750	900	950
AER503IR (1)	H,HP	*	*	*	*	*
PRO503	H,HP	*	*	*	*	*
SAS (2)	H,HP	*	*	*	*	*
SW3 (2)	H,HP,HT	*	*	*	*	*
SW5 (2)	H,HP	*	*	*	*	*
	HT	*		*		
TX (3)	H,HP,HT	*	*	*	*	*

(1) Wall-mount installation.

(2) Probe for AER503IR-TX thermostats, if fitted.

(3) Wall-mounting. If the unit intake exceeds 0.7A, or several units need to be managed with a single thermostat, board SIT3 and/or SIT5 is required.

Model	Ver	200	250	300	350	400	450	500	550	700	750	900	950
DI24	H,HP	*	*	*	*	*	*	*	*	*	*	*	*

Model	Ver	200	250	300	350	400	450	500	550	700	750	900	950
VMF-E19I (1)	H,HP	*	*	*	*	*	*	*	*	*	*	*	*
VMF-E2Z	H	*	*	*	*	*	*	*	*	*	*	*	*
VMF-E3	H,HP	*	*	*	*	*	*	*	*	*	*	*	*
VMF-E4DX	H,HP	*	*	*	*	*	*	*	*	*	*	*	*
VMF-E4X	H,HP	*	*	*	*	*	*	*	*	*	*	*	*
VMF-IO	H	*	*	*	*	*	*	*	*	*	*	*	*
VMF-IR	H,HP	*	*	*	*	*	*	*	*	*	*	*	*
VMF-LON	H	*	*	*	*	*	*	*	*	*	*	*	*
VMF-SW1	H,HP	*	*	*	*	*	*	*	*	*	*	*	*
VMHI	H,HP	*	*	*	*	*	*	*	*	*	*	*	*

(1) Mandatory accessory.

Common accessories

3 way valve kit

Model	Ver	200	250	300	350	400	450	500	550	700	750	900	950
VCZ41 (1)	H,HP,HT	*	*										
VCZ4124 (2)	H,HP,HT	*	*										
VCZ42 (1)	H,HP,HT			*	*	*	*	*	*	*	*		
VCZ4224 (2)	H,HP,HT			*	*	*	*	*	*	*	*		
VCZ43 (1)	H,HP,HT											*	*
VCZ4324 (2)	H,HP,HT											*	*

(1) 230V~50Hz

(2) 24V

2 way valve kit

Model	Ver	200	250	300	350	400	450	500	550	700	750	900	950
VCZD1 (1)	H,HP,HT	*	*										
VCZD124 (2)	H,HP,HT	*	*										
VCZD2 (1)	H,HP,HT			*	*	*	*	*	*	*	*		
VCZD224 (2)	H,HP,HT			*	*	*	*	*	*	*	*		
VCZD3 (1)	H,HP,HT											*	*
VCZD324 (2)	H,HP,HT											*	*

(1) 230V~50Hz

(2) 24V

Combined Adjustment and Balancing Valve Kit

Model	Ver	200	250	300	350	400	450	500	550	700	750	900	950
VJP060 (1)	H,HP,HT	*	*	*	*								
VJP060M (2)	H,HP,HT	*	*	*	*								
VJP090 (1)	H,HP,HT					*	*	*	*				
VJP090M (2)	H,HP,HT					*	*	*	*				
VJP150 (1)	H,HP,HT									*	*	*	*
VJP150M (2)	H,HP,HT									*	*	*	*

(1) 230V~50Hz

(2) 24V

Wall mounting kit

Ver	200	250	300	350	400	450	500	550	700	750	900	950
H, HP	AMP20	AMP20	AMP20	AMP20	AMP20	AMP20	AMP20	AMP20	AMP20	AMP20	AMP20	AMP20

Condensate drainage

Model	Ver	200	250	300	350	400	450	500	550	700	750	900	950
DSC4 (1)	HP	*	*	*	*	*	*	*	*	*	*	*	*

(1) DSC4 cannot be mounted if even just one of these accessories is also installed: AMP - AMP2 valve VCZ1-2-3-4 X4L/R and all the condensate collection trays.

Condensate drip

Ver	200	250	300	350	400	450	500	550	700	750	900	950
HP	BCZ4 (1)	BCZ4 (1)	BCZ4 (1)	BCZ4 (1)	BCZ4 (1)	BCZ4 (1)	BCZ4 (1)	BCZ4 (1)	BCZ4 (1)	BCZ4 (1)	BCZ4 (1)	BCZ4 (1)

(1) For vertical installation.

Ver	200	250	300	350	400	450	500	550	700	750	900	950
HP	BC8 (1)	BC8 (1)	BC8 (1)	BC8 (1)	BC8 (1)	BC8 (1)	BC8 (1)	BC8 (1)	BC8 (1)	BC8 (1)	BC9 (1)	BC9 (1)

(1) For horizontal installation.

Panel closing the rear of the unit

Ver	200	250	300	350	400	450	500	550	700	750	900	950
H, HT	PCZ200	PCZ200	PCZ300	PCZ300	PCZ500	PCZ500	PCZ500	PCZ500	PCZ800	PCZ800	PCZ1000	PCZ1000

Grille also applicable for floor installation

Ver	200	250	300	350	400	450	500	550	700	750	900	950
H, HP, HT	GA200	GA200	GA300	GA300	GA500	GA500	GA500	GA500	GA800	GA800	GA800	GA800

Metal supports for GA grille

Ver	200	250	300	350	400	450	500	550	700	750	900	950
H, HP, HT	FIKIT200	FIKIT200	FIKIT300	FIKIT300	FIKIT500	FIKIT500	FIKIT500	FIKIT500	FIKIT800	FIKIT800	FIKIT800	FIKIT800

Ventilcassaforma

Ver	200	250	300	350	400	450	500	550	700	750	900	950
HP	CHF22	CHF22	CHF32	CHF32	CHF42	CHF42	CHF42	CHF42	CHF62	CHF62	CHF62	CHF62

Brackets to fix the fan coil to the floor.

Ver	200	250	300	350	400	450	500	550	700	750	900	950
H, HT	SPCZ	SPCZ	SPCZ	SPCZ	SPCZ	SPCZ	SPCZ	SPCZ	SPCZ	SPCZ	SPCZ	SPCZ

Pair of stylish structural feet

Ver	200	250	300	350	400	450	500	550	700	750	900	950
H, HP, HT	ZXZ	ZXZ	ZXZ	ZXZ	ZXZ	ZXZ	ZXZ	ZXZ	ZXZ	ZXZ	ZXZ	ZXZ

PERFORMANCE SPECIFICATIONS

2-pipe

	FCZI200H			FCZI250H			FCZI300H			FCZI350H			FCZI400H			FCZI450H		
	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H

Heating performance 70 °C / 60 °C (1)

Heating capacity	kW	2,02	2,95	3,70	2,20	3,18	4,05	3,47	4,46	5,50	3,77	4,92	6,15	4,32	5,74	7,15	4,57	6,29	7,82
Water flow rate system side	l/h	177	258	324	193	278	355	304	391	482	330	431	539	379	503	627	400	551	685
Pressure drop system side	kPa	6	12	18	7	15	23	7	12	18	8	14	20	9	16	24	6	11	16

Heating performance 45 °C / 40 °C (2)

Heating capacity	kW	1,00	1,46	1,84	1,09	1,58	2,01	1,72	2,21	2,73	1,87	2,44	3,06	2,14	2,85	3,55	2,27	3,12	3,88
Water flow rate system side	l/h	174	254	319	190	274	350	299	385	475	325	425	531	373	495	617	394	543	675
Pressure drop system side	kPa	6	12	18	8	15	22	8	12	18	8	14	20	10	16	24	6	11	16

Cooling performance 7 °C / 12 °C

Cooling capacity	kW	0,89	1,28	1,60	1,06	1,55	1,94	1,68	2,17	2,65	1,89	2,46	3,02	2,20	2,92	3,60	2,41	3,21	4,03
Sensible cooling capacity	kW	0,71	1,05	1,33	0,79	1,20	1,52	1,26	1,65	2,04	1,33	1,76	2,18	1,59	2,14	2,67	1,69	2,30	2,90
Water flow rate system side	l/h	153	221	275	182	267	334	288	374	456	350	460	560	379	503	619	414	552	694
Pressure drop system side	kPa	7	13	18	8	17	25	8	13	18	11	18	25	10	17	24	9	15	22

Fan

Type	type	Centrifugal			Centrifugal			Centrifugal			Centrifugal			Centrifugal			Centrifugal		
Fan motor	type	Inverter			Inverter			Inverter			Inverter			Inverter			Inverter		
Number	no.	1			1			2			2			2			2		
Air flow rate	m³/h	140	220	290	140	220	290	260	350	450	260	350	450	330	460	600	330	460	600
Input power	W	5	8	14	5	8	14	5	7	13	5	7	13	5	10	18	5	10	18
Signal 0-10V	%	44	68	90	44	68	90	52	70	90	52	70	90	49	68	90	49	68	90

Diametre hydraulic fittings

Type	type	Gas - F			Gas - F			Gas - F			Gas - F			Gas - F			Gas - F		
------	------	---------	--	--	---------	--	--	---------	--	--	---------	--	--	---------	--	--	---------	--	--

Fan coil sound data (3)

Sound power level	dB(A)	35,0	46,0	51,0	35,0	46,0	51,0	34,0	41,0	48,0	34,0	41,0	48,0	37,0	44,0	51,0	37,0	44,0	51,0
Sound pressure level	dB(A)	27,0	38,0	43,0	27,0	38,0	43,0	26,0	33,0	40,0	26,0	33,0	40,0	29,0	36,0	43,0	29,0	36,0	43,0

Power supply

Power supply		230V~50Hz			230V~50Hz			230V~50Hz			230V~50Hz			230V~50Hz			230V~50Hz		
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	FCZI500H			FCZI550H			FCZI700H			FCZI750H			FCZI900H			FCZI950H		
	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H

Heating performance 70 °C / 60 °C (1)

Heating capacity	kW	5,27	7,31	8,50	5,82	8,34	9,75	6,50	8,10	10,00	7,19	9,15	11,50	10,77	13,35	15,14	11,20	14,42	17,10
Water flow rate system side	l/h	462	641	745	510	731	855	570	710	877	631	802	1008	945	1171	1328	982	1264	1500
Pressure drop system side	kPa	12	21	28	10	20	26	12	18	26	14	21	31	12	17	22	16	25	33

Heating performance 45 °C / 40 °C (2)

Heating capacity	kW	2,62	3,63	4,22	2,89	4,14	4,85	3,32	4,03	4,97	3,57	4,55	5,72	5,35	6,64	7,53	5,57	7,17	8,50
Water flow rate system side	l/h	455	631	734	502	720	842	561	699	863	621	790	993	930	1152	1307	967	1245	1476
Pressure drop system side	kPa	12	21	28	10	20	26	12	18	26	14	20	31	12	17	22	15	24	33

Cooling performance 7 °C / 12 °C

Cooling capacity	kW	2,68	3,69	4,25	2,91	4,13	4,79	3,22	3,90	4,65	3,95	4,80	5,67	4,29	5,00	6,91	5,77	7,32	8,60
Sensible cooling capacity	kW	1,94	2,73	3,18	2,07	2,98	3,49	2,56	3,17	3,92	2,78	3,43	4,12	2,97	3,78	5,68	3,80	4,87	5,78
Water flow rate system side	l/h	460	634	731	501	711	824	554	671	800	595	825	975	738	860	1189	992	1259	1479
Pressure drop system side	kPa	13	23	29	12	22	28	14	19	26	15	21	28	10	13	22	15	23	30

Fan

Type	type	Centrifugal			Centrifugal			Centrifugal			Centrifugal			Centrifugal			Centrifugal		
Fan motor	type	Inverter			Inverter			Inverter			Inverter			Inverter			Inverter		
Number	no.	2			2			3			3			3			3		
Air flow rate	m³/h	400	600	720	400	600	720	520	720	900	520	720	900	700	930	1140	700	930	1140
Input power	W	7	18	34	7	18	34	30	40	80	30	40	80	30	40	80	30	40	80
Signal 0-10V	%	50	74	90	50	74	90	56	72	90	56	72	90	56	72	90	56	72	90

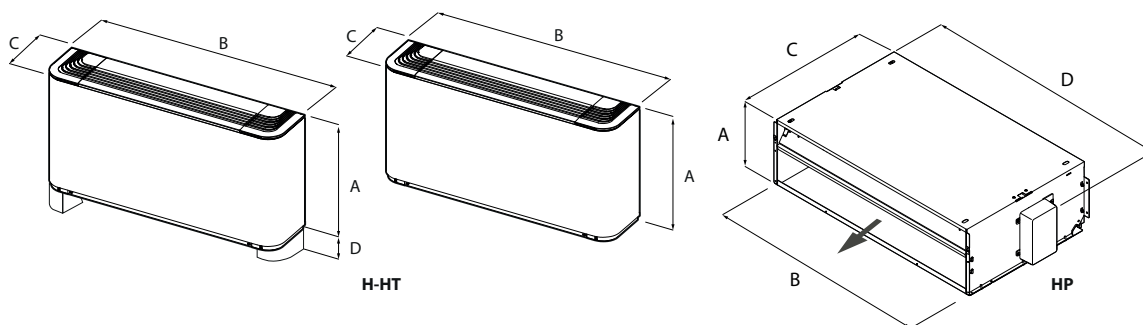
		FCZI500H			FCZI550H			FCZI700H			FCZI750H			FCZI900H			FCZI950H		
Diametre hydraulic fittings																			
Type	type	Gas - F			Gas - F			Gas - F			Gas - F			Gas - F			Gas - F		
Fan coil sound data (3)																			
Sound power level	dB(A)	42,0	51,0	56,0	42,0	51,0	56,0	42,0	51,0	57,0	42,0	51,0	57,0	51,0	57,0	62,0	51,0	57,0	61,0
Sound pressure level	dB(A)	34,0	43,0	48,0	34,0	43,0	48,0	34,0	43,0	49,0	34,0	43,0	49,0	43,0	49,0	54,0	43,0	49,0	53,0
Power supply																			
Power supply		230V~50Hz			230V~50Hz			230V~50Hz			230V~50Hz			230V~50Hz			230V~50Hz		

(1) Room air temperature 20 °C d.b.; Water (in/out) 70 °C/60 °C

(2) Room air temperature 20 °C d.b.; Water (in/out) 45 °C/40 °C; EUROVENT

(3) Aermec determines the sound power value on the basis of measurements taken in accordance with standard UNI EN 16583:15, respecting the Eurovent certification.

DIMENSIONS



Size			200	250	300	350	400	450	500	550	700	750	900	950
Dimensions and weights														
A	H,HT	mm	486	486	486	486	486	486	486	486	486	486	591	591
	HP	mm	216	216	216	216	216	216	216	216	216	216	216	216
B	H,HT	mm	750	750	980	980	1200	1200	1200	1200	1320	1320	1320	1320
	HP	mm	522	522	753	753	973	973	973	973	1122	1122	1122	1122
C	H,HT	mm	220	220	220	220	220	220	220	220	220	220	220	220
	HP	mm	453	453	453	453	453	453	453	453	453	453	558	558
D	H,HT	mm	90	-	90	-	90	-	90	-	90	-	90	90
	HP	mm	562	-	793	-	1013	-	1013	-	1147	-	1147	1147
Empty weight	H,HT	kg	15	16	17	18	22	24	22	24	29	31	34	34
	HP	kg	12	14	14	16	20	22	23	24	26	31	32	32

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Aermec S.p.A.

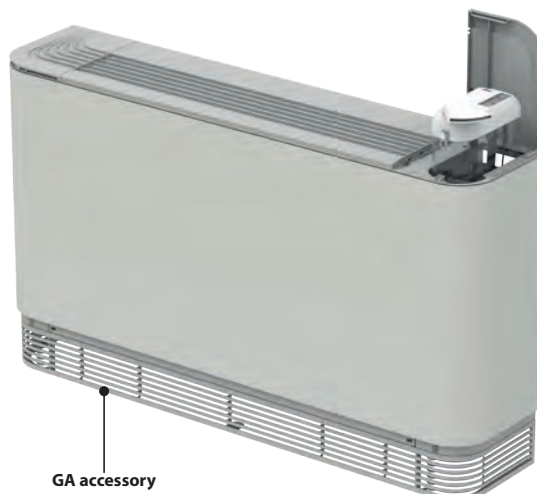
Via Roma, 996 - 37040 Bevilacqua (VR) - Italia
Tel. 0442633111 - Telefax 044293577
www.aermec.com

FCZ-ASW

Fan coil for vertical wall-mounting or free-standing installation

Cooling capacity 0,65 ÷ 7,62 kW
Heating capacity 1,45 ÷ 17,02 kW

- **Adiabatic "retractable stand-alone" ultrasonic humidifier**
- **Fully silent operation**
- **Total comfort in every season**



DESCRIPTION

The FCZ-ASW series adds winter air humidity control to the typical functions of a fan coil, guaranteeing the best degree of thermo-hygrometric comfort without any impact on acoustic performance and with extremely low electricity consumption.

INTEGRATED ULTRASONIC HUMIDIFIER: EFFICIENCY AND SILENCE

Our "stand-alone" adiabatic ultrasonic humidifier, which disappears from view because it is perfectly integrated into the fan coil cabinet, guarantees precise and silent humidification of the environment. It consists of a transparent tank, a feeding unit with a three-speed micro-fan and a piezoelectric transducer.

The latter, thanks to ultrasonic technology, nebulizes the demineralised water into microparticles, creating a fine mist that evaporates quickly once in contact with the ambient air.

The electronic control makes it possible to set three humidity levels, adapting to any need, the integrated level sensor promptly signals the need to top up **only demineralised water**.



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Case

Metallic micro-perforated cabinet with rustproofing polyester paint RAL 9003. Head with plastic air distribution grille RAL 7047.

Ventilation group

Consisting of double suction centrifugal fans that are particularly silent, statically and dynamically balanced, and directly coupled with the motor shaft.

The motor is wired for single phase and has three speeds, with capacitor. The motor is fitted on sealed for life bearings and is secured on anti-vibration and self-lubricating mountings.

Extractable shrouds for easy, effective cleaning

Finned pack heat exchanger

With copper pipes and aluminium louvers, the main heat exchanger has female gas water connections on the left side and the manifolds have air vents.

The coil is not suitable for use in corrosive atmosphere or in environments where aluminium may be subject to corrosion.

Specify the position of the water connections at the time of ordering.

Air filter

Air filter class Coarse 25% for all versions easy to pull out and clean.

DATA AND ACCESSORIES

For performance data and accessory compatibility, please refer to the commercial documentation of the FCZ series.

Please note that only wall-mounted control panels are compatible with this unit, so it cannot be used in units with on-board thermostats

Aermec S.p.A.

Via Roma, 996 - 37040 Bevilacqua (VR) - Italia

Tel. 0442633111 - Telefax 044293577

www.aermec.com

Omnia UL

Fan coil for universal installation



- Fully silent functioning
- Ideal for residential or office solutions



DESCRIPTION

fan coil can be installed in any 2 pipe system and operates with any heat generator even at low temperatures, and thanks to varied versions and settings, it is easy to pick the ideal solution for any need.

VERSIONS

- C** Vertical installation, intake at base, electronic thermostat
PC Vertical installation, intake at base, electronic thermostat, Cold Plasma purifier
S Vertical and horizontal installation, intake at base, without commands
UL Standard - Vertical installation, bottom intake, manual switch-over

FEATURES

Case

Protective metal cabinet with anti-corrosion polyester RAL 9003 paint, whereas the head with the air distribution grille is in RAL 7047 plastic.

Ventilation group

Comprised of a dual intake centrifugal fan that is particularly silent, statically and dynamically balanced and directly coupled to the motor shaft. The electric motor is single-phase multi-speed (3 selectable), mounted on anti-vibration supports and with a permanently inserted capacitor. The plastic augers are extractable for easy and efficient cleaning.

Finned pack heat exchanger

With copper pipes and aluminium louvers, the main heat exchanger has female gas water connections on the left side and the manifolds have air vents.

The coil is not suitable for use in corrosive atmosphere or in environments where aluminium may be subject to corrosion.

■ *The hydraulic connections can be inverted during installation.*

Condensate drip

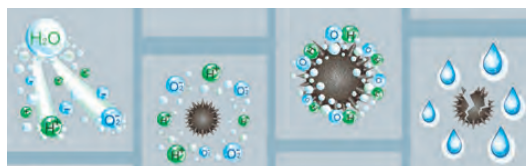
Provided standard in plastic and fixed to the interior structure; with external condensate discharge.

Air filter

The fan coil units are equipped with a standard air filter. For specific details, please refer to the unit's documentation.

APC versions equipped with Coldplasma Air purifier.

The purifier is able to reduce pollutants, decomposing their molecules using electrical charges, causing the water molecules in the air to split into positive and negative ions. These ions neutralise the molecules in the gaseous pollutants, obtaining products normally present in clean air. The device is able to eliminate 90% of the bacteria. The result is clean, ionized air, free of foul odours.



ACCESSORIES

Control panels and dedicated accessories

AER503IR: Flush-mounting thermostat with backlit display, capacitive key-pad and infrared receiver, for controlling both brushless fan coils and those with an asynchronous motor. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices (Cold Plasma and germicidal lamp), with radiant plate or with FCZ-D twin delivery (Dualjet). In addition, it can control systems with radiant panels or mixed (fan coil and radiant floor) systems. Being equipped with an infrared receiver, it can, in turn, be controlled by the VMF-IR remote control.

PRO503: Wall box for AER503IR and VMF-E4 thermostats.

SA5: air probe kit (L = 15 m) with probe-locking cable grommet.

SW3: Water probe (L = 2.5 m) for controlling the minimum and maximum and to allow automatic seasonal switching for electronic thermostats fitted with water side changeover.

SW5: water probe kit (L = 15m) with probe-holder connection point, fixing clip and probe-holder from heat exchanger.

TX: Wall-mounting thermostat for controlling either brushless fan coils or those with asynchronous motors for 2/4 pipe. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices, radiant plate or FCZ-D twin delivery (Dualjet).

WMT10: Electronic thermostat, white, with thermostated or continuous ventilation.

WMT16: Electronic thermostat with thermostated ventilation.

AerSuite

The AerSuite application is used to remotely control the DI24 user interface, with VMF-E19/VMF-E19I thermostats, using Smart Devices with iOS and Android operating systems.

This is an application for Smartphones and Tablets with which the user can access and control the system operation remotely.

For more information about the use of the application and the available functions, refer to the respective documentation on the website.



VMF system

DI24: Flush-mounted interface (503 box) with 2.4" touch screen display to be combined with VMF-E19, VMF-E19I accessories. It allows you to regulate

and monitor the temperature inside rooms precisely and on time; in addition to accessing and interacting with your system's operating information, parameters and alarms, it allows you to set time slots. Thanks to its Wi-Fi connection, DI24 in combination with the AerSuite APP (available for Android and iOS) can also be remotely controlled. All programming and most functions are done in a simple and intuitive way using the APP. To allow for customization of the interface so that it seamlessly integrates with the style of any home, DI24 is compatible with switch plates from major brands available on the market. For more information, please refer to our documentation. However, a switch plate with its graphite gray support, DI24CP, is also available as a separate accessory in our catalog.

DI24CP: Complete flush-mounted interface plate with support for DI24, Vi-mar brand, Arké series, graphite gray color.

VMF-E19: Thermostat to be secured to the side of the fan coil, fitted as standard with an air probe and a water probe.

VMF-E2U: User interface on the machine, to be combined with the VMF-E19 and VMF-E19I accessory. It has 2 selector switches, one for temperature and the other for speed control.

VMF-E3: Wall mounted user interface, to be combined with accessories VMF-E19, VMF-E19I, with grids GLF_N/M and GLL_N, can be controlled with VMF-IR control.

VMF-E4DX: Wall-mounted user interface. Grey front panel PANTONE 425C (METAL).

VMF-E4X: Wall-mounted user interface. Light grey front panel PANTONE COOL GRAY 1C.

VMF-IR: User interface compatible with the AER503IR, VMF-E3 thermostat and with all the grids of cassettes equipped with the infrared receiver compatible with the VMF system.

VMHI: The VMHI panel can be used as a user interface for VMF-E19/E19I thermostats, GLFxN/M or GLLxN grids, or as an interface for the MZC system. What determines the function to be performed by the user interface is determined by its correct parametrisation and by following the electrical connections between interface and thermostat or interface and plenum.

Common accessories

AMP: Wall mounting kit

DSC: Condensate drainage device.

VCH: 3-way motorised valve kit. The kit consists of a valve, an actuator and the relative pipe fittings. It can be installed on fan coils with both right and left connections.

VCHD: 2-way motorised valve kit. The kit consists of a valve, an actuator and the relative pipe fittings.

BC: Condensate drip.

GU: Intake grid covers the front space between the ornamental feet and does not interfere with the filter.

PCU: Sheet metal panel closing the rear of the unit.

ZU1: Pair of stylish and structural feet.

GU: Intake grid covers the front space between the ornamental feet and does not interfere with the filter.

ACCESSORIES COMPATIBILITY

Control panels and dedicated accessories

Accessory	UL12C	UL12PC	UL12S	UL17C	UL17PC	UL17S	UL27C	UL27PC	UL27S	UL37C	UL37PC	UL37S
AER503IR			*			*			*			*
PRO503			*			*			*			*
SA5			*			*			*			*
SW3	*	*	*	*	*	*	*	*	*	*	*	*
SW5			*			*			*			*
TX			*			*			*			*
WMT10			*			*			*			*
WMT16			*			*			*			*

VMF system

Accessory	UL12S	UL17S	UL27S	UL37S
DI24	*	*	*	*
DI24CP	*	*	*	*
VMF-E19	*	*	*	*
VMF-E2U	*	*	*	*
VMF-E3	*	*	*	*
VMF-E4DX	*	*	*	*
VMF-E4X	*	*	*	*
VMF-IR	*	*	*	*
VMHI	*	*	*	*

3 way valve kit

Accessory	UL12	UL12C	UL12PC	UL12S	UL17	UL17C	UL17PC	UL17S	UL27	UL27C	UL27PC	UL27S	UL37	UL37C	UL37PC	UL37S
VCH	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*

2 way valve kit

Accessory	UL12	UL12C	UL12PC	UL12S	UL17	UL17C	UL17PC	UL17S	UL27	UL27C	UL27PC	UL27S	UL37	UL37C	UL37PC	UL37S
VCHD	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*

Condensate drip

Accessory	UL17	UL17C	UL17PC	UL17S	UL27	UL27C
BC10 (1)	*	*	*	*	*	*
BC20 (2)	*	*	*	*	*	*

Accessory	UL27PC	UL27S	UL37	UL37C	UL37PC	UL37S
BC10 (1)	*	*	*	*	*	*
BC20 (2)	*	*	*	*	*	*

(1) For vertical installation.

(2) For horizontal installation.

Condensate drainage

Accessory	UL12	UL12C	UL12PC	UL12S	UL17	UL17C	UL17PC	UL17S	UL27	UL27C	UL27PC	UL27S	UL37	UL37C	UL37PC	UL37S
DSCS (1)	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*

(1) The accessory cannot be fit if the accessory BC10 or BC20 is installed.

Wall mounting kit

Accessory	UL12C	UL17C	UL17PC	UL27C	UL27PC	UL37C	UL37PC
AMP10	*	*	*	*	*	*	*

Panel closing the rear of the unit

Accessory	UL12	UL12C	UL12PC	UL12S	UL17	UL17C	UL17PC	UL17S	UL27	UL27C	UL27PC	UL27S	UL37	UL37C	UL37PC	UL37S
PCU12	*	*	*	*												
PCU17					*	*	*	*								
PCU27									*	*	*	*				
PCU37													*	*	*	*

Intake grids

Accessory	UL12	UL12C	UL12PC	UL12S	UL17	UL17C	UL17PC	UL17S	UL27	UL27C	UL27PC	UL27S	UL37	UL37C	UL37PC	UL37S
GU12 (1)	*	*	*	*												
GU17 (1)					*	*	*	*								
GU27 (1)									*	*	*	*				
GU37 (1)													*	*	*	*

(1) The combination with a pair of stylish and structural feet is mandatory.

Pair of stylish structural feet

Accessory	UL12	UL12C	UL12PC	UL12S	UL17	UL17C	UL17PC	UL17S	UL27	UL27C	UL27PC	UL27S	UL37	UL37C	UL37PC	UL37S
ZU1	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*

Configuration**Configuration options**

Field	Description
1,2	UL
3,4	Size 12, 17, 27, 37
5	Version
C	Vertical installation, intake at base, electronic thermostat
PC	Vertical installation, intake at base, electronic thermostat, Cold Plasma purifier
S	Vertical and horizontal installation, intake at base, without commands
UL	Standard - Vertical installation, bottom intake, manual switch-over

PERFORMANCE SPECIFICATIONS

Technical data

2-pipe

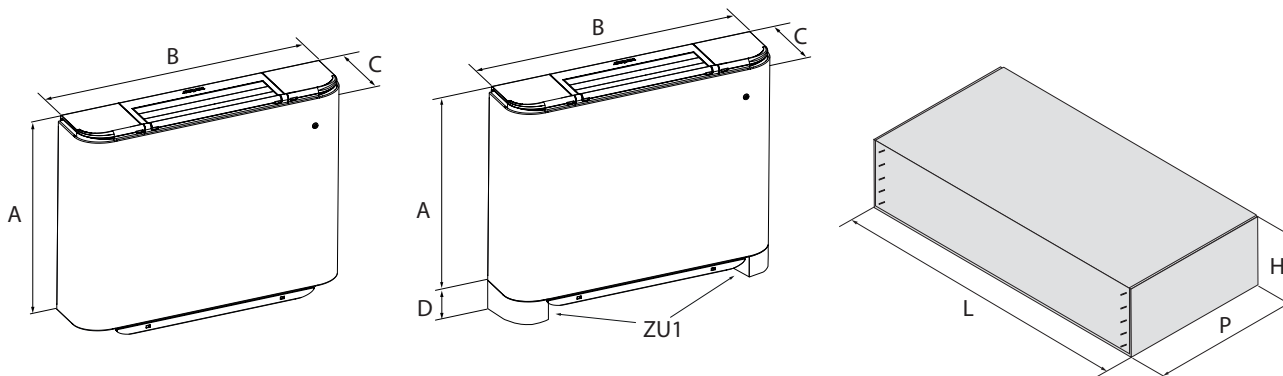
		UL17			UL27			UL37		
		1	2	3	1	2	3	1	2	3
		L	M	H	L	M	H	L	M	H
Heating performance 70 °C / 60 °C (1)										
Heating capacity	kW	1,54	2,12	2,91	2,89	3,83	4,62	3,63	4,87	5,94
Water flow rate system side	l/h	135	186	255	254	336	405	310	427	521
Pressure drop system side	kPa	1	2	4	5	8	11	3	5	7
Heating performance 45 °C / 40 °C (2)										
Heating capacity	kW	0,76	1,05	1,44	1,44	1,90	2,29	1,75	2,42	2,95
Water flow rate system side	l/h	133	183	251	249	331	399	305	420	513
Pressure drop system side	kPa	2	3	3	5	8	11	7	13	18
Cooling performance 7 °C / 12 °C										
Cooling capacity	kW	0,69	0,87	1,17	1,26	1,65	1,99	1,63	2,26	2,79
Sensible cooling capacity	kW	0,52	0,69	0,96	0,97	1,30	1,61	1,13	1,59	2,00
Water flow rate system side	l/h	122	153	206	220	289	349	286	394	487
Pressure drop system side	kPa	2	3	5	5	8	11	7	13	19
Fan										
Type	type	Centrifugal			Centrifugal			Centrifugal		
Fan motor	type	On-Off			On-Off			On-Off		
Number	no.	1			2			2		
Air flow rate	m³/h	110	160	240	190	270	350	240	350	460
Input power	W	23	25	32	24	27	35	30	35	42
Electrical wiring		V1	V2	V3	V1	V2	V3	V1	V2	V3
Fan coil sound data (3)										
Sound power level	dB(A)	34,0	43,0	48,0	35,0	43,0	48,0	34,0	43,0	50,0
Sound pressure level	dB(A)	26,0	35,0	40,0	27,0	35,0	40,0	26,0	33,0	40,0
Finned pack heat exchanger										
Water content main heat exchanger	l	0,4			0,6			0,8		
Diameter hydraulic fittings										
Main heat exchanger	Ø	1/2"			1/2"			1/2"		
Power supply										
Power supply		230V~50Hz			230V~50Hz			230V~50Hz		

(1) Room air temperature 20 °C d.b.; Water (in/out) 70 °C/60 °C

(2) Room air temperature 20 °C d.b.; Water (in/out) 45 °C/40 °C; EUROVENT

(3) Aermec determines the sound power value on the basis of measurements taken in accordance with standard UNI EN 16583:15, respecting the Eurovent certification.

DIMENSIONS



Dimensions and weights

		UL12	UL12C	UL12S	UL17	UL17S	UL17C	UL17PC	UL27	UL27S	UL27C	UL27PC	UL37	UL37S	UL37C	UL37PC
Dimensions and weights																
A	mm	485	485	485	485	485	485	485	485	485	485	485	485	485	485	485
B	mm	640	640	640	750	750	750	750	980	980	980	980	1200	1200	1200	1200
C	mm	173	173	173	173	173	173	173	173	173	173	173	173	173	173	173
D	mm	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94
Empty weight	kg	12	12	12	13	13	13	13	17	17	18	18	20	20	20	20
Dimensions and weights for transport																
H	mm	275	275	275	275	275	275	275	275	275	275	275	275	275	275	275
L	mm	710	710	710	820	820	820	820	1050	1050	1050	1050	1270	1270	1270	1270
P	mm	590	590	590	590	590	590	590	590	590	590	590	590	590	590	590
Weight for transport	kg	12,5	13,0	12,5	14,5	14,5	15,0	15,0	19,0	19,0	19,5	19,5	22,5	22,5	23,0	23,0

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www.aermec.com

Omnia ULI

Fan coil for universal and floor installation



- **Electric saving equal to 50% compared to a fancoil with 3-speed motor.**
- **Fully silent functioning**
- **Ideal for residential or office solutions**



DESCRIPTION

Fan coils with inverter technology for heating, cooling, and dehumidifying. Equipped with a state of the art ventilation unit with continuous modulation of the air flow rate, which allows for precise adaptation of the actual indoor ambient requirements without temperature oscillations, for increased comfort, also in terms of noise, and electrical savings. It can be installed on 2-pipe systems and combined with any heat generator even at low temperatures. Choosing the optimal solution for any requirement is easy thanks to the various versions available and to the possibility of horizontal or vertical installation, depending on the version.

VERSIONS

- C** Vertical installation, intake at base, electronic thermostat
PC Vertical installation, intake at base, electronic thermostat, Cold Plasma purifier
S Vertical and horizontal installation, intake at base, without commands

FEATURES

Case

Protective metal cabinet with anti-corrosion polyester RAL 9003 paint, whereas the head with the air distribution grille is in RAL 7047 plastic.

Ventilation group

Comprised of a dual intake centrifugal fan that is particularly silent, statically and dynamically balanced and directly coupled to the motor shaft. Brushless motor with continuous speed variation 0-100%. The scroll that protects the fan can be extracted and inspected, for easy and effective cleaning.

Finned pack heat exchanger

With copper pipes and aluminium louvers, the main heat exchanger has female gas water connections on the left side and the manifolds have air vents.

The coil is not suitable for use in corrosive atmosphere or in environments where aluminium may be subject to corrosion.

- *The hydraulic connections can be inverted during installation.*

Condensate drip

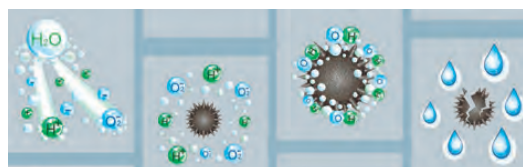
Provided standard in plastic and fixed to the interior structure; with external condensate discharge.

Air filter

The fan coil units are equipped with a standard air filter. For specific details, please refer to the unit's documentation.

APC versions equipped with Coldplasma Air purifier.

The purifier is able to reduce pollutants, decomposing their molecules using electrical charges, causing the water molecules in the air to split into positive and negative ions. These ions neutralise the molecules in the gaseous pollutants, obtaining products normally present in clean air. The device is able to eliminate 90% of the bacteria. The result is clean, ionized air, free of foul odours.



ACCESSORIES

Control panels and dedicated accessories

AER503IR: Flush-mounting thermostat with backlit display, capacitive keypad and infrared receiver, for controlling both brushless fan coils and those with an asynchronous motor. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices (Cold Plasma and germicidal lamp), with radiant plate or with FCZ-D twin delivery (Dualjet). In addition, it can control systems with radiant panels or mixed (fan coil and radiant floor) systems. Being equipped with an infrared receiver, it can, in turn, be controlled by the VMF-IR remote control.

PRO503: Wall box for AER503IR and VMF-E4 thermostats.

SA5: air probe kit (L = 15 m) with probe-locking cable grommet.

SW3: Water probe (L = 2.5 m) for controlling the minimum and maximum and to allow automatic seasonal switching for electronic thermostats fitted with water side changeover.

SW5: water probe kit (L = 15m) with probe-holder connection point, fixing clip and probe-holder from heat exchanger.

TX: Wall-mounting thermostat for controlling either brushless fan coils or those with asynchronous motors for 2/4 pipe. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices, radiant plate or FCZ-D twin delivery (Dualjet).

AerSuite

The AerSuite application is used to remotely control the DI24 user interface, with VMF-E19/VMF-E19I thermostats, using Smart Devices with iOS and Android operating systems.

This is an application for Smartphones and Tablets with which the user can access and control the system operation remotely.

For more information about the use of the application and the available functions, refer to the respective documentation on the website.



VMF system

DI24: Flush-mounted interface (503 box) with 2.4" touch screen display to be combined with VMF-E19, VMF-E19I accessories. It allows you to regulate and monitor the temperature inside rooms precisely and on time; in addition to accessing and interacting with your system's operating information, parameters and alarms, it allows you to set time slots. Thanks to its Wi-Fi connection, DI24 in combination with the AerSuite APP (available for Android and iOS) can also be remotely controlled. All programming and most functions are done in a simple and intuitive way using the APP. To allow for customization of the interface so that it seamlessly integrates with the style of any home, DI24 is compatible with switch plates from major brands available on the market. For more information, please refer to our documentation. However, a switch plate with its graphite gray support, DI24CP, is also available as a separate accessory in our catalog.

DI24CP: Complete flush-mounted interface plate with support for DI24, Vi-mar brand, Arké series, graphite gray color.

VMF-E19I: Thermostat for inverter unit to be fixed on the side of the fan coil, fitted as standard with an air and water probe.

VMF-E2U: User interface on the machine, to be combined with the VMF-E19 and VMF-E19I accessory. It has 2 selector switches, one for temperature and the other for speed control.

VMF-E3: Wall mounted user interface, to be combined with accessories VMF-E19, VMF-E19I, with grids GLF_N/M and GLL_N, can be controlled with VMF-IR control.

VMF-E4DX: Wall-mounted user interface. Grey front panel PANTONE 425C (METAL).

VMF-E4X: Wall-mounted user interface. Light grey front panel PANTONE COOL GRAY 1C.

VMF-IR: User interface compatible with the AER503IR, VMF-E3 thermostat and with all the grids of cassettes equipped with the infrared receiver compatible with the VMF system.

VMHI: The VMHI panel can be used as a user interface for VMF-E19/E19I thermostats, GLF_N/M or GLL_N grids, or as an interface for the MZC system. What determines the function to be performed by the user interface is determined by its correct parametrisation and by following the electrical connections between interface and thermostat or interface and plenum.

Common accessories

AMP: Wall mounting kit

DSC: Condensate drainage device.

VCH: 3-way motorised valve kit. The kit consists of a valve, an actuator and the relative pipe fittings. It can be installed on fan coils with both right and left connections.

VCHD: 2-way motorised valve kit. The kit consists of a valve, an actuator and the relative pipe fittings.

BC: Condensate drip.

GU: Intake grid covers the front space between the ornamental feet and does not interfere with the filter.

PCU: Sheet metal panel closing the rear of the unit.

ZU1: Pair of stylish and structural feet.

ACCESSORIES COMPATIBILITY

Model	Ver	17	27	37
AERS03IR (1)	S	•	•	•
PRO503	S	•	•	•
SAS (2)	S	•	•	•
SW3 (2)	C,PC,S	•	•	•
SW5 (2)	S	•	•	•
TX (3)	S	•	•	•

(1) Wall-mount installation.

(2) Probe for AERS03IR-TX thermostats, if fitted.

(3) Wall-mounting. If the unit intake exceeds 0.7A, or several units need to be managed with a single thermostat, board SIT3 and/or SIT5 is required.

VMF system

Model	Ver	17	27	37
DI24	S	•	•	•
DI24CP	S	•	•	•
VMF-E19I (1)	S	•	•	•
VMF-E2U	S	•	•	•
VMF-E3	S	•	•	•
VMF-E4DX	S	•	•	•
VMF-E4X	S	•	•	•
VMF-IR	S	•	•	•
VMHI	S	•	•	•

(1) Mandatory accessory.

Condensate drip

Model	Ver	17	27	37
BC10 (1)	C,PC,S	•	•	•
BC20 (2)	C,PC,S	•	•	•

(1) For vertical installation.

(2) For horizontal installation.

Condensate drainage

Model	Ver	17	27	37
DSCS (1)	C,PC	•	•	•

(1) The accessory cannot be fit if the accessory BC10 or BC20 is installed.

3 way valve kit

Model	Ver	17	27	37
VCH	C,PC	•	•	•

2 way valve kit

Model	Ver	17	27	37
VCHD	C,PC	•	•	•

Panel closing the rear of the unit

Model	Ver	17	27	37
PCU17	C,PC,S	•		
PCU27	C,PC,S		•	
PCU37	C,PC,S			•

Intake grids

Model	Ver	17	27	37
GU17 (1)	C,PC,S	•		
GU27 (1)	C,PC,S		•	
GU37 (1)	C,PC,S			•

(1) The combination with a pair of stylish and structural feet is mandatory.

Wall mounting kit

Model	Ver	17	27	37
AMP10	S	•	•	•

Pair of stylish structural feet

Model	Ver	17	27	37
ZU1	C,PC,S	•	•	•

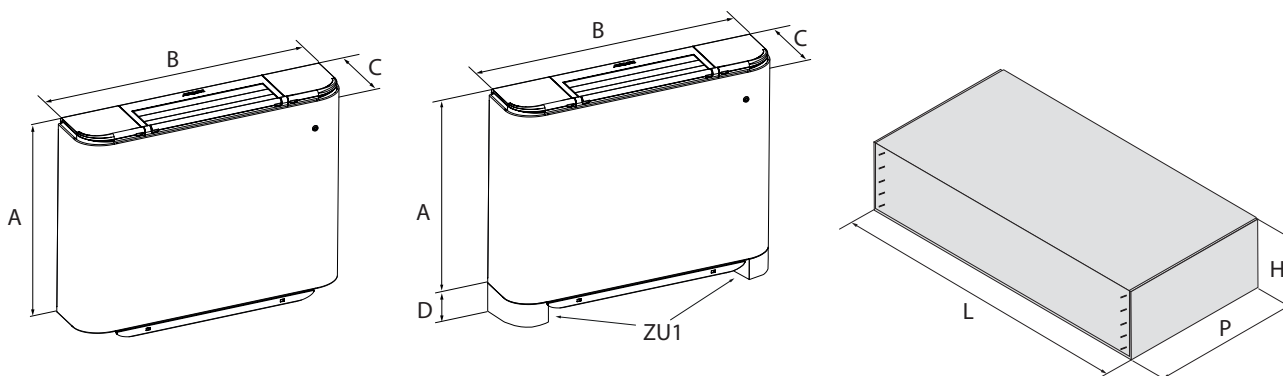
PERFORMANCE SPECIFICATIONS

2-pipe

		ULI17			ULI27			ULI37		
		1	2	3	1	2	3	1	2	3
		L	M	H	L	M	H	L	M	H
Heating performance 70 °C / 60 °C (1)										
Heating capacity	kW	1,54	2,12	2,91	2,89	3,83	4,62	3,53	4,87	5,94
Water flow rate system side	l/h	135	186	255	254	336	405	310	427	521
Pressure drop system side	kPa	1	2	4	5	8	11	3	5	7
Heating performance 45 °C / 40 °C (2)										
Heating capacity	kW	0,76	1,05	1,44	1,44	1,90	2,29	1,75	2,42	2,95
Water flow rate system side	l/h	133	183	251	249	331	399	305	420	513
Pressure drop system side	kPa	2	2	2	5	8	11	7	12	18
Cooling performance 7 °C / 12 °C										
Cooling capacity	kW	0,69	0,87	1,17	1,26	1,65	1,99	1,63	2,26	2,79
Sensible cooling capacity	kW	0,52	0,69	0,96	0,97	1,30	1,61	1,13	1,59	2,00
Water flow rate system side	l/h	122	153	206	220	289	349	286	394	487
Pressure drop system side	kPa	2	3	5	6	8	11	7	13	19
Fan										
Type	type	Centrifugal								
Fan motor	type	Inverter								
Number	no.	1			2			2		
Air flow rate	m³/h	110	160	240	190	270	350	240	350	460
Input power	W	23	25	32	24	27	35	30	35	42
Signal 0-10V	%	38	56	83	49	70	90	48	70	90
Sound power level	dB(A)	34,0	43,0	48,0	35,0	43,0	48,0	34,0	43,0	50,0
Sound pressure level (10 m)	dB(A)	26,0	35,0	40,0	27,0	35,0	40,0	26,0	33,0	42,0
Finned pack heat exchanger										
Water content	l	0,4			0,6			0,8		
Diameter hydraulic fittings										
Main heat exchanger	Ø	1/2"								
Power supply										
Power supply		230V~50Hz								

- (1) Room air temperature 20 °C d.b.; Water (in/out) 70 °C/60 °C
 (2) Room air temperature 20 °C d.b.; Water (in/out) 45 °C/40 °C; EUROVENT

DIMENSIONS



Size			17	27	37
Dimensions and weights					
A	C,PC,S	mm	513	513	513
B	C,PC,S	mm	750	980	1200
C	C,PC,S	mm	173	173	173
D	C,PC,S	mm	93	93	93
Empty weight	C,PC	kg	13	18	20
	S	kg	13	17	20
Dimensions and weights for transport					
H	C,PC,S	mm	275	275	275
L	C,PC,S	mm	820	1050	1270
P	C,PC,S	mm	590	590	590
Weight for transport	C,PC	kg	15,0	19,5	23,0
	S	kg	14,5	19,0	22,5

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Omnia Radiant

Fan coils with radiant panel for residential use

- Low temperature radiation *
- Ventilated heating
- Cooling - dehumidification
- Energy saving
- Low operating temperature



DESCRIPTION

* Radiant technology under licence.

Omnia Radiant and Omnia Radiant Plus Aermec innovative solutions. In this particular worldwide market evolution, we are pleased to present to you OMNIA Radiant, which represents the innovation of the OMNIA AERMEC series, fan coils especially designed for residential comfort.

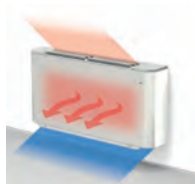
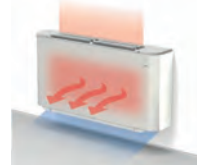
OMNIA Radiant inherits all the advantages of the OMNIA UL series, and is characterized by the introduction of the frontal plate for radiant heating.

OMNIA Radiant Plus is provided with the DC Brushless electric engine, equipped with the latest Inverter technology, granting the highest energy efficiency and able to regulate the air flow through the continuous fan speed modulation. This allows to achieve up to 60% in energy saving when compared to the traditional On-Off fan system, in both air conditioning and heating.

OMNIA Radiant and Radiant Plus offer the following advantages when compared to the traditional systems:

- The radiant plate combination – the finned coil allows the best winter comfort with the lower energy consumption because it provides heating with lower water temperature: only 45°C against the about 65°C needed for the traditional radiator. This not only increases the comfort for the user, but also significantly increases the overall efficiency in case of heat pumps usage;
- The fan system allows to quickly reach the desired temperature, meeting the requirement of a fast start-up;
- The unit can be combined other than the boiler, also to energy saving heat pumps: air to water, water to water and geothermic type;
- During summer Omnia Radiant and Radiant Plus provide air conditioning and dehumidification in a fast and efficient way in every room.

THE FOUR DIFFERENT WORKING MODES OF OMNIA RADIANT ANNUAL FUNCTIONING



Radiant

Heating through radiation, comfortable and noiseless, is granted by the radiant plate placed on the front of the fan coil cover; if necessary, the triple-fins delivery head can be closed to increase the heating of the plate, thus maximizing the radiant effect.

Radiant + Natural Convection

With the triple-fins open, heating through natural convection, obtained thanks to the bigger coil exchange surface, is added to the radiant heating. As for the radiant-only mode (see above), the fan groups are in off mode. This results in acoustic comfort and energy saving.

Radiant + Forced Convection

The electronic regulation, precise and reliable, continuously compares the effective indoor temperature with the desired temperature: whenever the difference between the two should prove to be too high (e.g. during the heating system start-up) the software will lead the fan system start-up.

Start-up is fast and efficient and grants significant energy savings especially in rooms that are occasionally used.

Omnia Radiant during summer provides air conditioning and dehumidification

Forced Convection

During summer, Omnia Radiant and Radiant Plus provide air conditioning and dehumidification for each room of the house in a fast and efficient way. Efficiency and quietness benefit from the quality that has always characterized the Omnia series.

FEATURES

- 1 Radiant plate
- 2 Switching valve
- 3 Water probe
- 4 Condensate storage container, hydraulic hoses



OMNIA Radiant (UL_R) standard features:

- Radiant plate
- Centrifugal fan
- Three-speed cross flow fan
- Condensate storage container, hydraulic hoses
- Two way valve
- Water temperature probe
- VMF-thermostat for asynchronous motor
- Compatibility with VMF system

OMNIA Radiant (UL_RI) standard features:

- Radiant plate
- Centrifugal fan
- Electric DC Brushless motor with Inverter
- Condensate storage container, hydraulic hoses
- Two way valve
- Water temperature probe
- VMF thermostat for DC Brushless motor

- Compatibility with VMF system

Ventilation group

Thanks to special centrifugal fans, Omnia Radiant fan coils are incredibly silent, making them the best buy when it comes to acoustic comfort, given the total lack of peak noise.

"The heating by radiation at top speed ensures total silence regime"

The fan blades on the Omnia Radiant are easy to clean. As a matter of fact, the new versions now offer the possibility of opening the worm screw of the fan (the casing that encloses the blades) to perform routine cleaning.

Finned pack heat exchanger

With copper pipes and aluminium louvers, the main heat exchanger has female gas water connections on the left side and the manifolds have air vents.

The coil is not suitable for use in corrosive atmosphere or in environments where aluminium may be subject to corrosion.

■ *The heat exchanger is not reversible.*

ACCESSORIES

AerSuite

The AerSuite application is used to remotely control the DI24 user interface, with VMF-E19/VMF-E19I thermostats, using Smart Devices with iOS and Android operating systems.

This is an application for Smartphones and Tablets with which the user can access and control the system operation remotely.

For more information about the use of the application and the available functions, refer to the respective documentation on the website.



VMF system

DI24: Flush-mounted interface (503 box) with 2.4" touch screen display to be combined with VMF-E19, VMF-E19I accessories. It allows you to regulate and monitor the temperature inside rooms precisely and on time; in addition to accessing and interacting with your system's operating information, parameters and alarms, it allows you to set time slots. Thanks to its Wi-Fi connection, DI24 in combination with the AerSuite APP (available for Android and iOS) can also be remotely controlled. All programming and most functions are done in a simple and intuitive way using the APP. To allow for customization of the interface so that it seamlessly integrates with the style of any home, DI24 is compatible with switch plates from major brands available on the market. For more information, please refer to our documentation. However, a switch plate with its graphite gray support, DI24CP, is also available as a separate accessory in our catalog.

DI24CP: Complete flush-mounted interface plate with support for DI24, Vi-mar brand, Arké series, graphite gray color.

VMF-E4DX: Wall-mounted user interface. Grey front panel PANTONE 425C (METAL).

VMF-E4X: Wall-mounted user interface. Light grey front panel PANTONE COOL GRAY 1C.

VMF-E6: Wall user interface.

VMHI: The VMHI panel can be used as a user interface for VMF-E19/E19I thermostats, GLFxN/M or GLLxN grids, or as an interface for the MZC sys-

tem. What determines the function to be performed by the user interface is determined by its correct parametrisation and by following the electrical connections between interface and thermostat or interface and plenum.

For compatibility of the VMF-E6 with sizes 27R-37R contact the office.

Common accessories

AMP: Wall mounting kit

GU: Intake grid covers the front space between the ornamental feet and does not interfere with the filter.

PCU: Sheet metal panel closing the rear of the unit.

ZU1: Pair of stylish and structural feet.

VCHRAD: Kit consisting of motor-driven 3-way valve copper couplings and pipes.

ACCESSORIES COMPATIBILITY

VMF system

Accessory	UL27R	UL27RI	UL37R	UL37RI
DI24	*	*	*	*
DI24CP	*	*	*	*
VMF-E4DX	*	*	*	*
VMF-E4X	*	*	*	*
VMF-E6	*	*	*	*
VMHI	*	*	*	*

3 way valve kit

Accessory	UL27R	UL27RI	UL37R	UL37RI
VCHRAD	*	*	*	*
Accessory	UL27R	UL27RI	UL37R	UL37RI
PCU27	*	*	*	*
PCU37	*	*	*	*

Intake grids

Accessory	UL27R	UL27RI	UL37R	UL37RI
GU27	*	*	*	*
GU37	*	*	*	*

Wall mounting kit

Accessory	UL27R	UL27RI	UL37R	UL37RI
AMP10	*	*	*	*

Pair of stylish structural feet

Accessory	UL27R	UL27RI	UL37R	UL37RI
ZU1	*	*	*	*

PERFORMANCE SPECIFICATIONS

2-pipe

		UL27R			UL27RI			UL37R			UL37RI		
		1	2	3	1	2	3	1	2	3	1	2	3
		L	M	H	L	M	H	L	M	H	L	M	H
Heating performances													
Heating capacity (70 °C) (1)	kW	2,89	3,83	4,62	2,89	3,83	4,62	3,53	4,87	5,94	3,53	4,87	5,94
Heating capacity (50 °C) (2)	kW	2,75	2,75	2,75	2,75	2,75	2,75	3,54	3,54	3,54	3,54	3,54	3,54
Water flow rate system side	l/h	397	397	397	397	397	397	511	511	511	511	511	511
Pressure drop system side	kPa	17	17	17	17	17	17	21	21	21	21	21	21
Static heating power (70 °C) (3)	kW	0,65	0,65	0,65	0,65	0,65	0,65	0,75	0,75	0,75	0,75	0,75	0,75
Static heating power (50 °C) (4)	kW	0,39	0,39	0,39	0,39	0,39	0,39	0,45	0,45	0,45	0,45	0,45	0,45
Static heating power (35 °C) (5)	kW	0,20	0,20	0,20	0,20	0,20	0,20	0,23	0,23	0,23	0,23	0,23	0,23
Cooling performance 7 °C / 12 °C (6)													
Cooling capacity	kW	1,42	1,78	2,03	1,42	1,78	2,03	1,73	2,31	2,83	1,73	2,31	2,83
Sensible cooling capacity	kW	1,05	1,37	1,64	1,05	1,37	1,64	1,28	1,79	2,04	1,28	1,79	2,04
Water flow rate system side	l/h	349	349	349	349	349	349	487	487	487	487	487	487
Pressure drop system side	kPa	18	18	18	18	18	18	22	22	22	22	22	22
Fan													
Type	type	Centrifugal			Centrifugal			Centrifugal			Centrifugal		
Fan motor	type	Asynchronous			Inverter			Asynchronous			Inverter		
Number	no.	2			2			2			2		
Air flow rate	m³/h	190	270	350	190	270	350	240	350	460	240	350	460
Fan coil sound data (7)													
Sound power level	dB(A)	35,0	43,0	48,0	35,0	43,0	48,0	34,0	43,0	50,0	34,0	43,0	50,0
Sound pressure level	dB(A)	27,0	35,0	40,0	27,0	35,0	40,0	26,0	33,0	40,0	26,0	33,0	40,0
Fan													
Input power	W	35	35	35	12	12	12	42	42	42	16	16	16
Electrical wiring		V1	V2	V1	-	-	-	V1	V2	V3	-	-	-
Signal 0-10V	%	-	-	-	5	7	9	-	-	-	5	7	9
Diameter hydraulic fittings													
Main heat exchanger	Ø	1/2"			1/2"			1/2"			1/2"		
Finned pack heat exchanger													
Water content main heat exchanger	l	0,8			0,8			1,1			1,1		
Power supply													
Power supply		230V~50Hz			230V~50Hz			230V~50Hz			230V~50Hz		

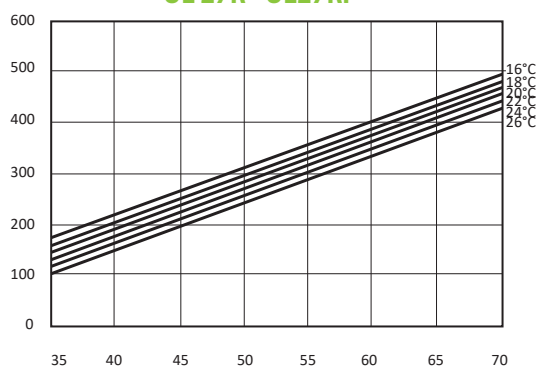
- (1) Room air temperature 20 °C d.b.; Water (in/out) 70 °C/60 °C
 (2) Room air 20 °C b.s.; Water (in) 50 °C; Water flow rate as in cooling mode (EUROVENT)
 (3) Radiant power + natural convection; Hot water (in) 70 °C (water flow same as in heating cycle)
 (4) Radiant power + natural convection; Hot water (in/°) 50°C/°°C (water flow same as in heating cycle)
 (5) Radiant power + natural convection; Hot water (in/°) 35°C/°°C (water flow same as in heating cycle)
 (6) Room air temperature 27°C d.b./19°C w.b.; Water (in/out) 7 °C/12 °C; EUROVENT
 (7) Aermec determines the sound power value on the basis of measurements taken in accordance with standard UNI EN 16583:15, respecting the Eurovent certification.

HEATING CAPACITY WITH FAN OFF

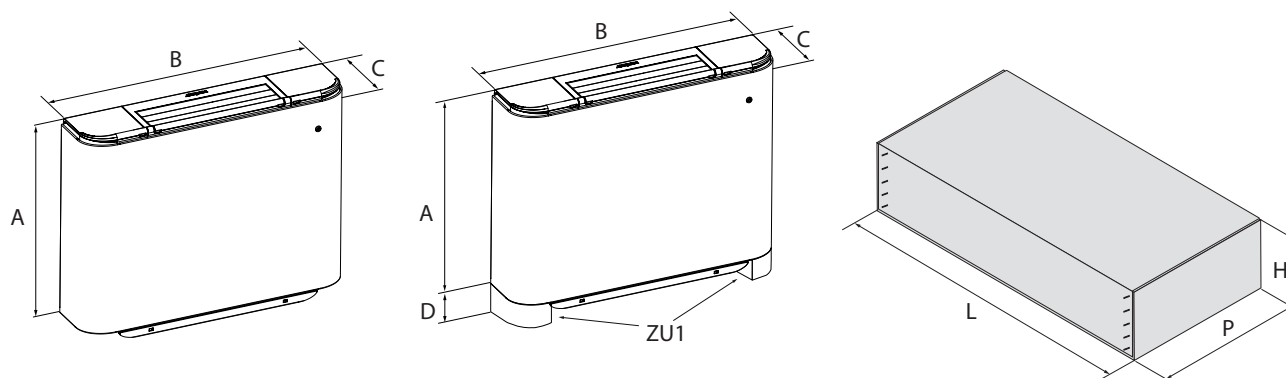
UL 37R - UL37RI



UL 27R - UL27RI



DIMENSIONS



		UL27R	UL27RI	UL37R	UL37RI
Dimensions and weights					
A	mm	513	513	513	513
B	mm	980	980	1200	1200
C	mm	173	173	173	173
D	mm	93	93	93	93
Empty weight	kg	20	20	24	24
Dimensions and weights for transport					
H	mm	275	275	275	275
L	mm	1050	1050	1270	1270
P	mm	590	590	590	590
Weight for transport	kg	22,0	22,0	27,0	27,0

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Omnia ULSI_B

Vertical wall-mounting or free-standing installation



- **Compact dimensions, thickness 130 mm**
- **Low operating temperature**
- **Cooling, heating, and dehumidification**



DESCRIPTION

The Omnia Slim fan coils have been designed to meet the need to combine the typical features of a classic radiator - namely reduced depth and quiet operation - with the ability of a fan coil to air-condition rooms throughout the year.

They can be installed on any system with a 2-pipe system and it fits with any heat generator even at low temperatures, and thanks to varied versions and settings, it is easy to pick the ideal solution for any need.

VERSIONS

ULSI_B Inverter without control board

ULSI_BR Inverter without control with hydraulic connections on the right

FEATURES

Case

Structure in sheet metal, 12/10 and 8/10 mm.

Front cover in 8/10 mm galvanised sheet metal with RAL9003 white epoxy powder coating and thermal-acoustic insulation of 13 mm thickness.

Ventilation group

These fan coils have extremely silent ventilation by using special tangential fans, which guarantees maximum acoustic comfort.

The electric motor is a new generation Brushless with built-in driver and IP66 protection rating, continuously variable speed



Finned pack heat exchanger

With copper pipes and aluminium louvers, the main heat exchanger has female gas water connections on the left side and the manifolds have air vents.

The coil is not suitable for use in corrosive atmosphere or in environments where aluminium may be subject to corrosion.

Control

Both versions are supplied without on-board control, however, various thermostats or control panels are available as accessories to be installed on board the fan coil unit or on the wall.

ACCESSORIES

Control panels and dedicated accessories

AER503IR: Flush-mounting thermostat with backlit display, capacitive keypad and infrared receiver, for controlling both brushless fan coils and those with an asynchronous motor. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices (Cold Plasma and germicidal lamp), with radiant plate or with FCZ-D twin delivery (Dualjet). In addition, it can control systems with radiant panels or mixed (fan coil and radiant floor) systems. Being equipped with an infrared receiver, it can, in turn, be controlled by the VMF-IR remote control.

DSKTS: Thermostat with an easy-to-read light display that provides clear information on room temperature, programming settings and more. Thanks to the ergonomic ring nut switch, adjusting the desired temperature is very easy. The knob allows precise and immediate adjustments, offering a classic but highly effective control mode. Not only functional, but also aesthetically pleasing. Our thermostat features a modern, compact design that fits perfectly in any environment, adding a touch of style to your home or office.

EC-DSKT: Electric cable for use with DSKT control panel. Mandatory accessory when combined with ULSI_BR versions.

EC-TXBI: Electric cable for use with TXBI control panel. Mandatory accessory when combined with ULSI_BR versions.

PRO503: Wall box for AER503IR and VMF-E4 thermostats.

SA5: air probe kit (L = 15 m) with probe-locking cable grommet.

SW5: water probe kit (L = 15m) with probe-holder connection point, fixing clip and probe-holder from heat exchanger.

TX: Wall-mounting thermostat for controlling either brushless fan coils or those with asynchronous motors for 2/4 pipe. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices, radiant plate or FCZ-D twin delivery (Dualjet).

TXBIS: Thermostat installation on the fan coil.

ULSI_B + DSKTS



AerSuite

The AerSuite application is used to remotely control the DI24 user interface, with VMF-E19/VMF-E19I thermostats, using Smart Devices with iOS and Android operating systems.

This is an application for Smartphones and Tablets with which the user can access and control the system operation remotely.

For more information about the use of the application and the available functions, refer to the respective documentation on the website.



VMF Components

DI24: Flush-mounted interface (503 box) with 2.4" touch screen display to be combined with VMF-E19, VMF-E19I accessories. It allows you to regulate and monitor the temperature inside rooms precisely and on time; in addition to accessing and interacting with your system's operating information, parameters and alarms, it allows you to set time slots. Thanks to its Wi-Fi connection, DI24 in combination with the AerSuite APP (available for Android and iOS) can also be remotely controlled. All programming and most functions are done in a simple and intuitive way using the APP. To allow for customization of the interface so that it seamlessly integrates with the style of any home, DI24 is compatible with switch plates from major brands available on the market. For more information, please refer to our documentation. However, a switch plate with its graphite gray support, DI24CP, is also available as a separate accessory in our catalog.

KITSV: Kit for installing the VMF-E19/19I.

VMF-E19I: Thermostat for inverter unit to be fixed on the side of the fan coil, fitted as standard with an air and water probe.

VMF-E2S: User interface on the fan coil, with two selectors - one for temperature and the other for speed control. For operation, the installation of either the VMF-E19 or VMF-E19I accessory is required.

VMF-E3: Wall mounted user interface, to be combined with accessories VMF-E19, VMF-E19I, with grids GLF_N/M and GLL_N, can be controlled with VMF-IR control.

VMF-E4DX: Wall-mounted user interface. Grey front panel PANTONE 425C (METAL).

VMF-E4X: Wall-mounted user interface. Light grey front panel PANTONE COOL GRAY 1C.

VMF-IR: User interface compatible with the AER503IR, VMF-E3 thermostat and with all the grids of cassettes equipped with the infrared receiver compatible with the VMF system.

VMHI: The VMHI panel can be used as a user interface for VMF-E19/E19I thermostats, GLFxN/M or GLLxN grids, or as an interface for the MZC system. What determines the function to be performed by the user interface is determined by its correct parametrisation and by following the electrical connections between interface and thermostat or interface and plenum.

Common accessories

BCSV: Condensate collection tray, for valve kit.

DSC7: Condensate drainage device.

VCS2: 2-way motorised valve kit without insulating shell. The kit is made up of a valve, actuator and relative hydraulic fittings.

VCS3: 3-way motorised valve kit without insulating shell for the main coil. The kit is made up of a valve with its insulating shell, actuator and relative hydraulic fittings.

ZXS: Pair of stylish and structural feet.

ACCESSORIES COMPATIBILITY

Control panels and dedicated accessories

Model	Ver	10	20	30	40	50
AER503IR (1)	ULSI_B,ULSI_BR	*	*	*	*	*
DSKTS (2)	ULSI_B,ULSI_BR	*	*	*	*	*
EC-DSKT	ULSI_BR	*	*	*	*	*
EC-TXBI	ULSI_BR	*	*	*	*	*
PRO503	ULSI_B,ULSI_BR	*	*	*	*	*
SAS (3)	ULSI_B,ULSI_BR	*	*	*	*	*
SW5 (3)	ULSI_B,ULSI_BR	*	*	*	*	*
TX (4)	ULSI_B,ULSI_BR	*	*	*	*	*
TXBIS (5)	ULSI_B,ULSI_BR	*	*	*	*	*

(1) Wall-mount installation.

(2) For ULSI_BR units add the mandatory EC_DSKT accessory.

(3) Probe for AER503IR-TX thermostats, if fitted.

(4) Wall-mounting. If the unit intake exceeds 0.7A, or several units need to be managed with a single thermostat, board SIT3 and/or SIT5 is required.

(5) For ULSI_BR units add the mandatory ULSI_BR accessory.

VMF system

Model	Ver	10	20	30	40	50
DI24	ULSI_B,ULSI_BR	*	*	*	*	*
KITSV (1)	ULSI_B,ULSI_BR	*	*	*	*	*
VMF-E19I (2)	ULSI_B,ULSI_BR	*	*	*	*	*
VMF-E2S (3)	ULSI_B,ULSI_BR	*	*	*	*	*
VMF-E3	ULSI_B,ULSI_BR	*	*	*	*	*
VMF-E4X	ULSI_B,ULSI_BR	*	*	*	*	*
VMF-IR	ULSI_B,ULSI_BR	*	*	*	*	*

Model	Ver	10	20	30	40	50
VMHI	ULSI_B,ULSI_BR	•	•	•	•	•

(1) Mandatory when the VMF-E19/19I thermostat is required.

(2) Mandatory accessory.

(3) Installation on the fan coil.

3 way valve kit

Model	Ver	10	20	30	40	50
VCS3 (1)	ULSI_B,ULSI_BR	•	•	•	•	•

(1) Power supply 230V - Hydraulic connections Ø 1/2"

2 way valve kit

Model	Ver	10	20	30	40	50
VCS2 (1)	ULSI_B,ULSI_BR	•	•	•	•	•

(1) Power supply 230V - Hydraulic connections Ø 1/2"

Condensate drip

Model	Ver	10	20	30	40	50
BCSV	ULSI_B,ULSI_BR	•	•	•	•	•

Condensate drainage

Model	Ver	10	20	30	40	50
DSC7	ULSI_B,ULSI_BR	•	•	•	•	•

Pair of stylish structural feet

Model	Ver	10	20	30	40	50
ZXS	ULSI_B,ULSI_BR	•	•	•	•	•

PERFORMANCE SPECIFICATIONS

2-pipe

	ULSI10B			ULSI20B			ULSI30B			ULSI40B			ULSI50B		
	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H

Heating performance 70 °C / 60 °C (1)

Heating capacity	kW	0,70	1,14	1,53	1,27	1,88	2,86	1,88	2,91	3,72	2,32	3,55	4,77	2,49	3,85	5,73
Water flow rate system side	l/h	61	100	134	111	165	251	165	254	326	203	311	418	218	337	501
Pressure drop system side	kPa	2	4	7	5	10	20	6	14	22	6	13	22	5	10	21

Heating performance 45 °C / 40 °C (2)

Heating capacity	kW	0,35	0,57	0,76	0,63	0,94	1,43	0,94	1,45	1,85	1,15	1,77	2,38	1,24	1,92	2,85
Water flow rate system side	l/h	61	99	132	110	163	248	163	251	322	201	307	413	216	333	495
Pressure drop system side	kPa	2	4	7	5	9	20	6	14	22	6	13	22	5	10	21

Cooling performance 7 °C / 12 °C

Cooling capacity	kW	0,37	0,60	0,80	0,67	0,98	1,50	0,98	1,52	1,95	1,22	1,86	2,50	1,30	2,02	3,00
Sensible cooling capacity	kW	0,25	0,42	0,57	0,46	0,68	1,08	0,68	1,06	1,39	0,84	1,30	1,79	0,90	1,40	2,15
Water flow rate system side	l/h	63	103	137	114	169	257	169	261	335	209	319	429	224	346	515
Pressure drop system side	kPa	3	6	10	7	13	28	9	19	30	9	18	30	7	14	29

Fan

Type	type	Tangential														
Fan motor	type	Inverter														
Number	no.	1			1			1			2			2		
Air flow rate	m³/h	46	82	134	78	128	241	109	188	301	126	218	370	127	225	427
Input power	W	5	8	10	6	9	15	7	12	17	7	14	20	7	13	21
Signal 0-10V	%	40	70	90	40	70	90	40	70	90	40	70	90	40	70	90

Fan coil sound data (3)

Sound power level	dB(A)	39,0	47,0	51,0	39,0	47,0	51,0	40,0	48,0	53,0	41,0	49,0	54,0	42,0	52,0	56,0
Sound pressure level	dB(A)	31,0	39,0	43,0	31,0	39,0	43,0	32,0	40,0	45,0	33,0	41,0	46,0	34,0	44,0	48,0

Finned pack heat exchanger

Water content main heat exchanger	l	0,5			0,9			1,2			1,5			1,8		
-----------------------------------	---	-----	--	--	-----	--	--	-----	--	--	-----	--	--	-----	--	--

Diameter hydraulic fittings

Main heat exchanger	Ø	1/2"														
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Power supply

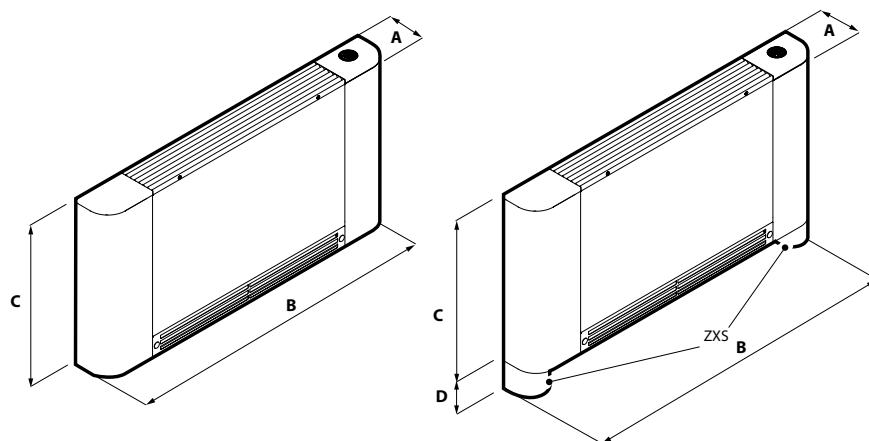
Power supply	230V~50Hz																
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(1) Room air temperature 20 °C d.b.; Water (in/out) 70 °C/60 °C

(2) Room air temperature 20 °C d.b.; Water (in/out) 45 °C/40 °C; EUROVENT

(3) Aermec determines the sound power value on the basis of measurements taken in accordance with standard UNI EN 16583:15, respecting the Eurovent certification.

DIMENSIONS



Size			10	20	30	40	50
Dimensions and weights							
A	ULSI_B,ULSI_BR	mm	130	130	130	130	130
B	ULSI_B,ULSI_BR	mm	745	940	1134	1328	1524
C	ULSI_B,ULSI_BR	mm	580	580	580	580	580
D	ULSI_B,ULSI_BR	mm	80	80	80	80	80
Empty weight	ULSI_B,ULSI_BR	kg	11	13	15	19	17

Aermec reserves the right to make any modifications deemed necessary. All data is subject to change without notice. Aermec does not assume responsibility or liability for errors or omissions.

Aermec S.p.A.

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FCY

Fan coil unit for ducted installations



- Plug and play installation only in horizontal
- Reduced dimensions
- Inspectable ventilation group



DESCRIPTION

Monobloc duct type fan coils for heating and/or cooling small and medium-sized environments for civil and commercial use.

They were designed and built for flush horizontal installation in any type of 2/4 pipe system and in combination with any heat generator, also at low temperatures.

Thanks to the availability of various versions and configurations, with a standard or oversized coil, it is easy to select the optimal solution for any requirement.

FEATURES

Ventilation group

Centrifugal fans in anti-static plastic material with aerofoil profile designed to achieve high airflows and pressures whilst at the same time producing low noise.

Their characteristics permit energy savings compared to conventional fans. They are statically and dynamically balanced and directly coupled to the motor shaft.

The electric motor is single-phase multi-speed (3 selectable), mounted on anti-vibration supports and with a permanently inserted capacitor.

The plastic augers are extractable for easy and efficient cleaning.

Heat exchanger coil

With copper pipes and aluminium louvers, the standard or oversized heat exchanger and the possible secondary heat exchanger have female gas water connections on the left side and the manifolds have air vents.

- *Reversibility of the water connections during installation only for units with a main standard or oversized coil or standard with BV accessory. Not reversible in all other configurations.*

Air filter

Where present, the **Coarse 25% Class according to ISO16890 (G2 according to EN779)** air filter, which is easy to remove and clean.

Condensate drip

In addition to the internal tray, all units are equipped with a **configurable external condensate collection tray** during installation.

Control

The unit's electrical box is reversible, with the option of mounting it also on the same side of the water connections.

The standard equipment includes a single 10-pin control board as an interface for the electrical connections, the preparation for the VMF series thermostat fastener and the included supply of a DIN guide for the installation of a third-party control.

GUIDE TO SELECTING THE POSSIBLE CONFIGURATIONS

Field	Description
1,2,3	FCY
4	Size 2, 3, 4, 5, 6, 7
5	main heat exchanger (1)
0	Standard
5	Oversized
6	Secondary heat exchanger
0	Without coil
1	Standard (2)
7	Version
C	Compact
U	Universal (3)
8	Connections
D	Water connections and electrical panel on the right
G	Water connections and electrical panel on the left
L	Hydraulic connections on the left and electric connections on the opposite side
R	Hydraulic connections on the right and electric connections on the opposite side
9	Options
H	Electric heater (500W) (4)
P	With the photocatalytic device (4)
X	No present
10	Filter
F	With air filter (5)
G	On the GKY accessory (6)
X	No present

(1) Reversibility of the water connections during installation only for units with a main standard or oversized coil. They are not reversible for units with a secondary coil.

(2) Only for the standard main coil

(3) Only for sizes from 2 to 5

(4) Options "P and H" are available only in units for 2-pipe systems.

(5) The DFA kit must mandatorily be installed on the units The DFA kit must mandatorily be installed on the units in option "F".

(6) Only for sizes 2 and 3, without secondary heat exchanger (0), in U version, D connections, without RX or photocatalytic device (X).

SIZE AVAILABLE FOR VERSION

C version

Size	200	201	250	300	301	350	400	401	450	500	501	550	600	601	650	700	701	750
Versions produced (by size)																		
Versions available (by size)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

Version U

Size	200	201	250	300	301	350	400	401	450	500	501	550
Versions produced (by size)												
Versions available (by size)	.	.	.	.	.	.	.	.	.	.	.	.

INSTALLATION VERSIONS AND EXAMPLES

C: Compact version.

Compact structure with opposed intake and delivery lines, for an "H"-shaped configuration.

The unit is provided without openings and without flanges, which can be purchased separately as an accessory.

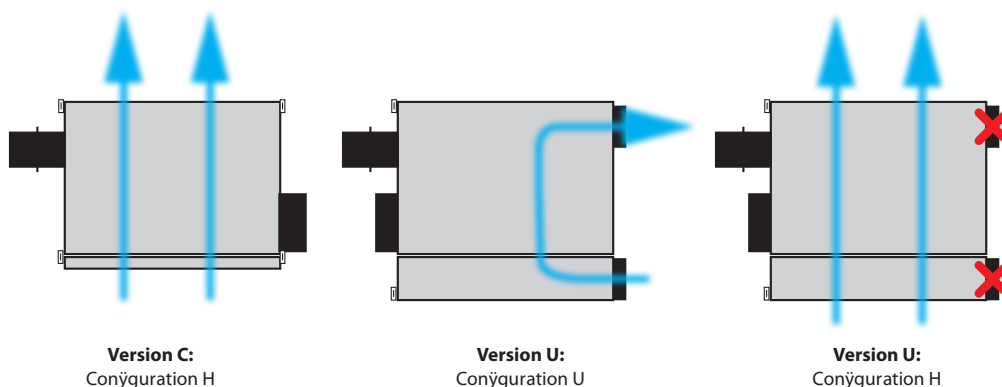
The delivery and intake part of the structure is designed to house flanges of Ø 200 mm (or Ø 160 mm) and one of the intake flanges can be replaced by a Ø 125 or 100 mm flange for the intake of outside air.

On the side, it can house Ø 125 or 100 mm flanges for the intake of outside air for delivery.

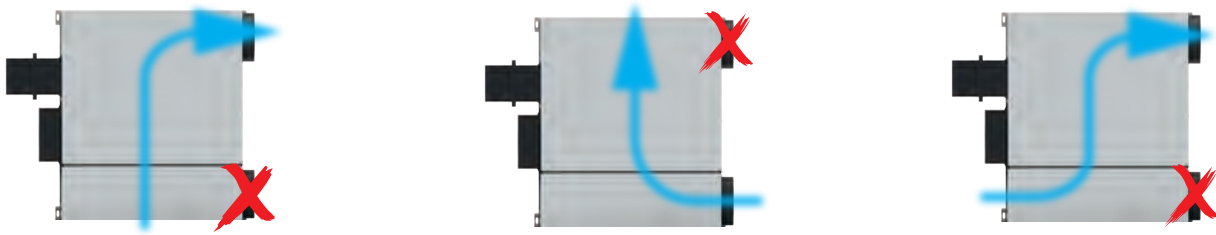
U: Universal version.

Structure for the "U" configuration with intake and delivery on the same side, opposite of the side with the water connections and the electrical box. The delivery and intake part of the structure is designed to house flanges of Ø 200 mm (or Ø 160 mm) and one of the intake or delivery flanges can be replaced by a Ø 125 or 100 mm flange for the intake of outside air.

This version is called universal because it guarantees the possible installations permitted by the C version and adds additional possibilities.



POSSIBLE ALTERNATIVE CONFIGURATIONS OF THE U VERSION

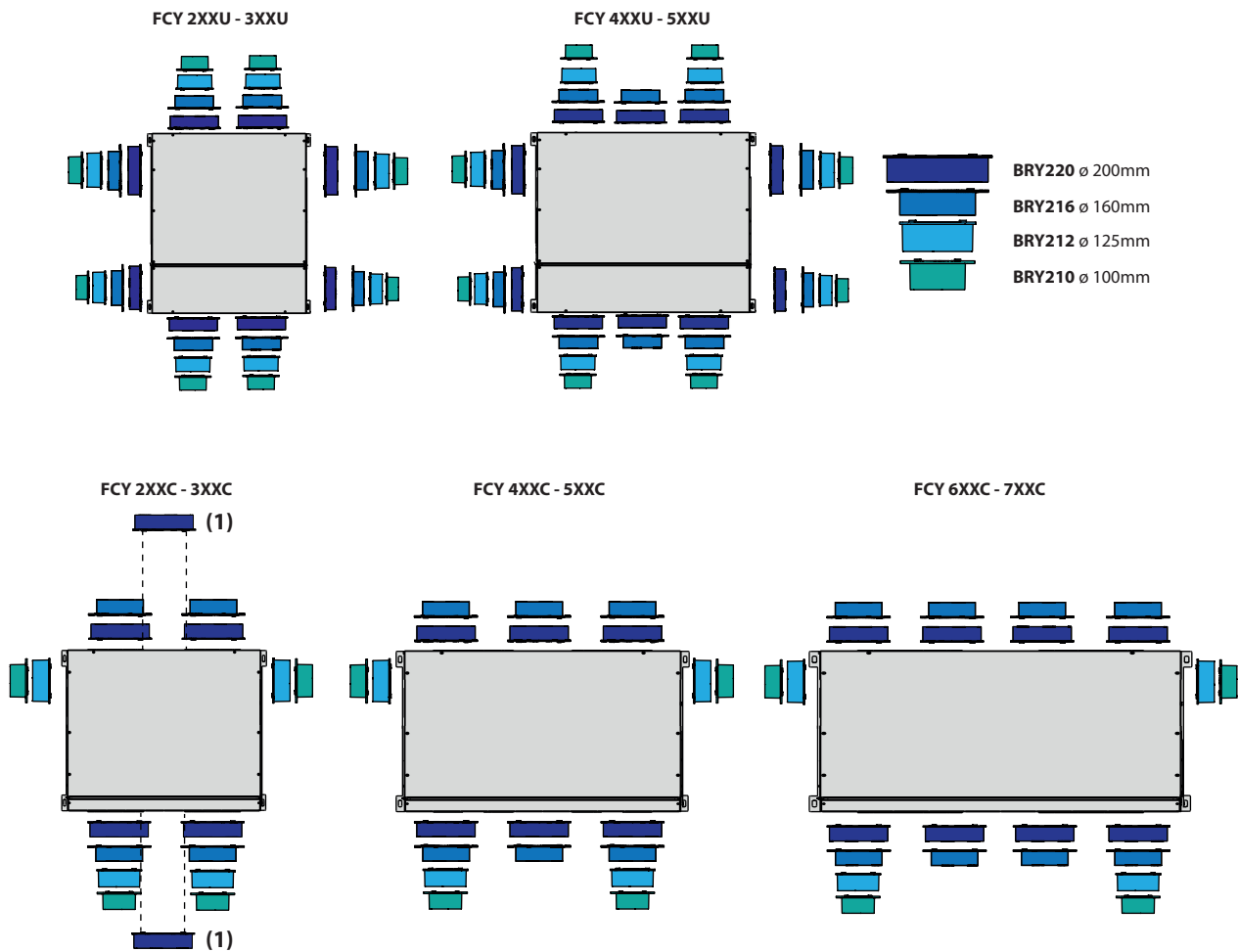


The performance data for the configurations shown here are equal to those for the U version in the U configuration.

POSSIBLE POSITIONS FOR THE INSTALLATION OF THE BRY ACCESSORIES

In every unit it is possible to use a maximum of one flange accessory for the intake of outside air (BRY210 or BRY212). The number and position of the preparations for the installation of the BRY accessories varies based on the unit size and version.

The standard **C version unit** is supplied without flanges, which can be purchased separately as an accessory.



1 There is a central preparation for the installation of an accessory BRY220 as an alternative to using the two more external preparations.

For the C version: it is necessary to use a number of recirculation air preparations at least equal to the maximum number possible for the size selected less 1.

Example: for FCY6xxC it is necessary to open at least 3 flange preparations for intake recirculation air and 3 flange preparations for delivery recirculation air (= maximum number - 1).

If the number of intake/delivery flanges used is less than the maximum possible for the considered size, their diameter must be 200 mm (BRY220).

For more information about the possible configurations for both versions, refer to the unit's selection software.

ACCESSORIES

Control panels

AER503IR: Flush-mounting thermostat with backlit display, capacitive keypad and infrared receiver, for controlling both brushless fan coils and those with an asynchronous motor. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices (Cold Plasma and germicidal lamp), with radiant plate or with FCZ-D twin delivery (Dualjet). In addition, it can control systems with radiant panels or mixed (fan coil and radiant floor) systems. Being equipped with an infrared receiver, it can, in turn, be controlled by the VMF-IR remote control.

SA5: air probe kit (L = 15 m) with probe-locking cable grommet.

SIT3: Thermostat Interface Card allowing the creation of a network of fan coils (max. 10) commanded by a central control panel (selector or thermostat). Commands the 3 fan speeds and must be installed on each fan coil within the network; receives the commands from the selector or the SIT5 card. In case you decide to install Aermec thermostats and current absorbed by the unit exceeds 0.7 A, you're obliged to include SIT3 accessory.

SIT5: Thermostat Interface Card allowing the creation of a network of fan coils (max. 10) commanded by a central control panel. Commands the 3 fan speeds and up to 2 valves (four pipe systems); sends the thermostat's commands to the fan coil network.

SW3: Water probe (L = 2.5 m) for controlling the minimum and maximum and to allow automatic seasonal switching for electronic thermostats fitted with water side changeover.

SW5: water probe kit (L = 15m) with probe-holder connection point, fixing clip and probe-holder from heat exchanger.

TX: Wall-mounting thermostat for controlling either brushless fan coils or those with asynchronous motors for 2/4 pipe. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices, radiant plate or FCZ-D twin delivery (Dualjet).

AerSuite

The AerSuite application is used to remotely control the DI24 user interface, with VMF-E19/VMF-E19I thermostats, using Smart Devices with iOS and Android operating systems.

This is an application for Smartphones and Tablets with which the user can access and control the system operation remotely.

For more information about the use of the application and the available functions, refer to the respective documentation on the website.



VMF system

DI24: Flush-mounted interface (503 box) with 2.4" touch screen display to be combined with VMF-E19, VMF-E19I accessories. It allows you to regulate and monitor the temperature inside rooms precisely and on time; in addition to accessing and interacting with your system's operating information, parameters and alarms, it allows you to set time slots. Thanks to its Wi-Fi connection, DI24 in combination with the AerSuite APP (available for Android and iOS) can also be remotely controlled. All programming and most functions are done in a simple and intuitive way using the APP. To allow for customization of the interface so that it seamlessly integrates with the style of any home, DI24 is compatible with switch plates from major brands available on the market. For more information, please refer to our documentation. However, a switch plate with its graphite gray support, DI24CP, is also available as a separate accessory in our catalog.

VMF-E19Y: Thermostat to be fixed on the side of the fan coil, fitted as standard with an air and water probe. Depending on the option chosen (P - X - H), VMF-E19Y must be completed with the mandatory electrical completion unit accessory (VMF-YCC, VMF-YCCH or VMF-YCCK / VMF-YICCK).

VMF-E3: Wall mounted user interface, to be combined with accessories VMF-E19, VMF-E19I, with grids GLF_N/M and GLL_N, can be controlled with VMF-IR control.

VMF-E4DX: Wall-mounted user interface. Grey front panel PANTONE 425C (METAL).

VMF-E4X: Wall-mounted user interface. Light grey front panel PANTONE COOL GRAY 1C.

VMF-IR: User interface compatible with the AER503IR, VMF-E3 thermostat and with all the grids of cassettes equipped with the infrared receiver compatible with the VMF system.

VMF-SW: Water probe (L = 2.5m) used if required in place of the standard unit supplied with the VMF-E19 and VMF-E19I thermostats for mounting it upstream of the valve.

VMF-SW1: Additional water probe (L = 2.5m) to be used if required for 4-pipe systems with the VMF-E19 and VMF-E19I thermostats for maximum control in the cold range

VMF-YCC: Electric on/off completion unit for the VMF-E19Y accessory (mandatory for the unit with options P and X).

VMF-YCCH: Electric on/off completion unit for the VMF-E19Y accessory (mandatory for the unit with option H).

VMF-YCCK: Electric on/off completion unit for the VMF-E19Y accessory, mandatory for FCY units with GKY accessory.

Valves for main coil

VCY41 - 42 - for main heat exchanger: 3-way motorised valve kit for the main coil. The kit consists of a valve, an actuator and the relative pipe fittings. It can be installed on fan coils with both right and left hydraulic connections.

VCYD for main and secondary coil: The 2-way motorised valve kit for the primary or secondary coil or an additional optional heat only coil. The kit consists of a valve, the actuator and the corresponding hydraulic fittings. It can be installed both on fan coils with right-hand and left-hand connections.

VDP15HF: Combined adjustment and balancing valve, for 2 and 4 pipe systems to be installed outside the unit. It is comprised of a valve body without nipples with Ø 3/4" M water connections, a 230 V powered actuator with On-Off function and a 5 m power supply cable. The valve is supplied without connections or hydraulic components.

VDP15HF24: Combined adjustment and balancing valve, for 2 and 4 pipe systems to be installed outside the unit. It is comprised of a valve body without nipples with Ø 3/4" M water connections, a 24 V powered actuator with On-Off function and a 5 m power supply cable. The valve is supplied without connections or hydraulic components.

VDP15HFM: Combined adjustment and balancing valve, for 2 and 4 pipe systems to be installed outside the unit. It is comprised of a valve body without nipples with Ø 3/4" M water connections, a 24 V powered actuator with modulating function and a 5 m power supply cable. The valve is supplied without connections or hydraulic components.

Valves for secondary coil

VCY44 - for secondary heat exchanger: 3-way motorized valve kit for hot only coil. The kit consists of a valve, actuator and relative hydraulic fittings, it is suitable for installation on both fan coils with hydraulic connections on the right and left.

VCYD for main and secondary coil: The 2-way motorised valve kit for the primary or secondary coil or an additional optional heat only coil. The kit consists of a valve, the actuator and the corresponding hydraulic fittings. It can be installed both on fan coils with right-hand and left-hand connections.

Additional hot water coil.

BV: Hot water heat exchanger with 1 row.

Valve support kit

KITVPI: Main coil VDP valve support kit. The kit consists of a bracket for supporting the valve and the corresponding hydraulic fittings.

KITVPI12H: VDP valve support kit for the secondary coil. The kit consists of a bracket for supporting the valve and the corresponding hydraulic fittings.

Installation accessories

BDP: 200 mm plug.

BRY: Flange with hydraulic "spigot" connection.

GMYC: Plate flange that makes it possible to install the accessory GM either in the intake section or in the delivery section. The accessory is comprised of a plate flange with gasket and 4 screws to fasten it to the unit.

AFY: the kit is comprised of a Coarse 25% class filter according to ISO16890 (G2 according to EN779) and four fastening brackets to insert in the grille GM17. To be used together with fan coils supplied without a filter installed in unit "X".

GMJU: Plate flange that makes it possible to install the accessory GM17 either in the intake section or in the delivery section. The accessory is comprised of a plate flange with gasket and 4 screws to fasten it to the unit.

DSC: Condensate drainage device.

DAYKIT: Air deflector for U versions. To be installed in the delivery plenum, on the side opposite the air outlet, to facilitate the flow towards the delivery opening.

AMPY: Additional brackets for ceiling mount. Only for "U" version.

Accessories in multiple packages

DFA: Size of filter halved on the short side. The kit is comprised of two filters with a length equal to the standard filter and with half the height. This fa-

cilitates filter cleaning and/or replacement operations if there is a reduced space for vertical extraction. 20 piece package.

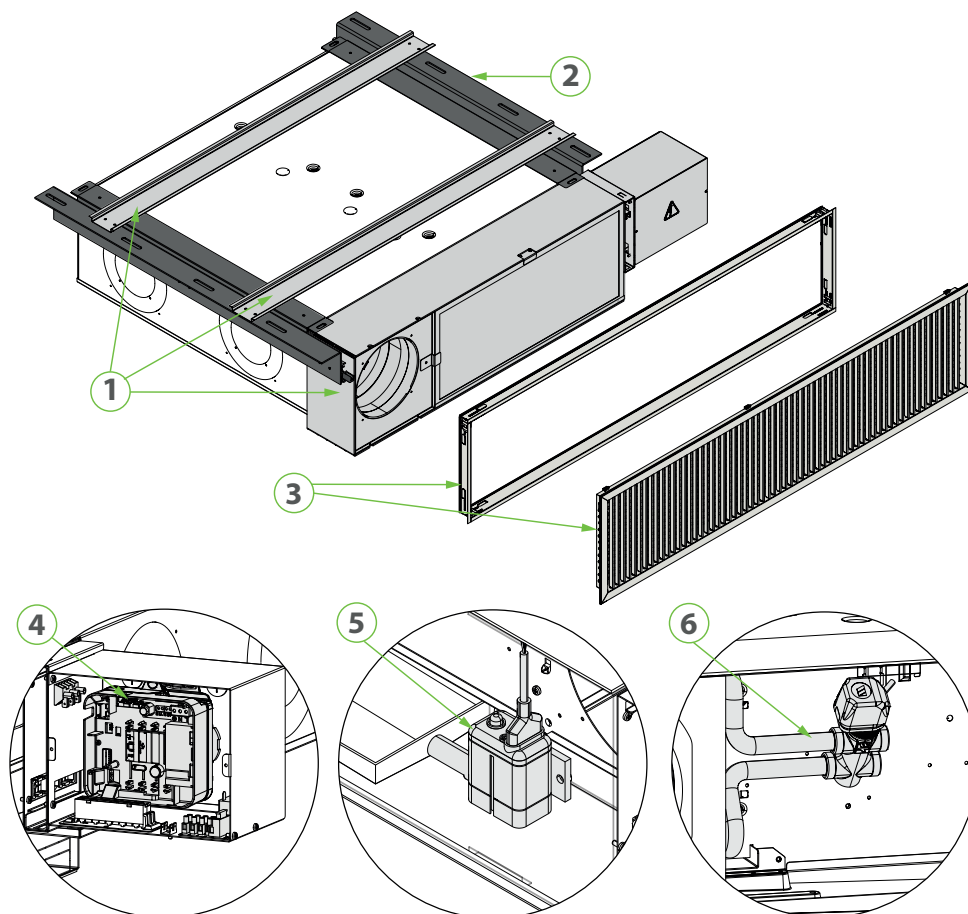
PPB: Protection for flanges to be used during installation to prevent dust from entering the unit before connecting the ducts. To be removed when making the connection. 100 piece package.

CHR12: Hydraulic connection kit for Ø 1/2" two-way valves, with soft coil side O-ring seal and with a flat plate and system side gasket, which can also be used for installing flat seal two-way valves. 50 piece package.

CHR34: Hydraulic connection kit for Ø 3/4" two-way valves, with soft coil side O-ring seal and with a flat plate and system side gasket, which can also be used for installing flat seal two-way valves. 30 piece package.

FLK60: Filter locking kit, allows the filter to be locked and unlocked from below instead of from the side. Pack of 60 pcs.

New GKY equipped flange



- 1 GKY
- 2 GKY2GT- GKY3GT (mandatory accessory)
- 3 GKYG (mandatory accessory)
- 4 VMF-E19Y + VMF-YICCK (FCY) / VMF-YCCK (FCY) (optional accessory)
- 5 DSC6 (optional accessory)
- 6 2 pipes with 2/3-way valve (optional accessory)

GKY: Extractable galvanised sheet metal equipped flange with electric box, allows for routine and extraordinary maintenance without the need for an inspection hatch underneath. The accessory is only compatible for units in UDXG configuration and recirculation air openings on the right side.

GKY2GT: Accessory mandatory for the installation of the GKY plenum, consisting of telescopic guides compatible with size 2.

GKY3GT: Accessory mandatory for the installation of the GKY plenum, consisting of telescopic guides compatible with size 3.

GKYG: grille kit in RAL9010 colour with counterframe, mandatory accessory compatible with GKY equipped flange accessory.

Extractable equipped flange

Model	Ver	200	201	250	300	301	350	400	401	450	500	501	550	600	601	650	700	701	750
GKY	U	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

Telescopic guides

Model	Ver	200	201	250	300	301	350	400	401	450	500	501	550	600	601	650	700	701	750
GKY2GT (1)	U	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

(1) Accessory mandatory for the installation of the GKY plenum

Telescopic guides

Model	Ver	200	201	250	300	301	350	400	401	450	500	501	550	600	601	650	700	701	750
GKY3GT (1)	U				*		*												

(1) Accessory mandatory for the installation of the GKY plenum

Grid kit

Model	Ver	200	201	250	300	301	350	400	401	450	500	501	550	600	601	650	700	701	750
GKYG	U	*		*	*		*												

ACCESSORIES COMPATIBILITY**Control panels and dedicated accessories**

Model	Ver	200	201	250	300	301	350	400	401	450	500	501	550	600	601	650	700	701	750
AER503IR (1)	C	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	U	*	*	*	*	*	*	*	*	*	*	*	*						
SAS (2)	C	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	U	*	*	*	*	*	*	*	*	*	*	*	*						
SIT3 (3)	C,U	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
SIT5 (4)	C	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	U	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
SW3 (2)	C	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	U	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
SW5 (2)	C	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	U	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
TX (5)	C	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	U	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*

(1) Wall-mount installation.

(2) Probe for AER503IR-TX thermostats, if fitted.

(3) Cards for AER503IR-TX thermostats, if present, to be installed if the unit absorption exceeds 0,7 Ampere.

(4) Probe for AER503IR-TX thermostats, if fitted.

(5) Wall-mounting. If the unit intake exceeds 0.7A, or several units need to be managed with a single thermostat, board SIT3 and/or SIT5 is required.

VMF system

Model	Ver	200	201	250	300	301	350	400	401	450	500	501	550	600	601	650	700	701	750
DI24	C	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	U	*	*	*	*	*	*	*	*	*	*	*	*						
VMF-E19Y	C	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	U	*	*	*	*	*	*	*	*	*	*	*	*						
VMF-E3	C	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	U	*	*	*	*	*	*	*	*	*	*	*	*						
VMF-E4DX	C	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	U	*	*	*	*	*	*	*	*	*	*	*	*						
VMF-E4X	C	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	U	*	*	*	*	*	*	*	*	*	*	*	*						
VMF-IR	C	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	U	*	*	*	*	*	*	*	*	*	*	*	*						
VMF-SW	C	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	U	*	*	*	*	*	*	*	*	*	*	*	*						
VMF-SW1	C	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	U	*	*	*	*	*	*	*	*	*	*	*	*						
VMF-YCC	C	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	U	*	*	*	*	*	*	*	*	*	*	*	*						
VMF-YCCH	C	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	U	*	*	*	*	*	*	*	*	*	*	*	*						
VMF-YCCK	U	*		*	*		*												

Additional heat only coil for only option "X" (without an electric heater and without a photocatalytic device)

Ver	200	201	250	300	301	350	400	401	450	500	501	550	600	601	650	700	701	750
C	BV122	-	-	BV132	-	-	BV142	-	-	BV142	-	-	BV2800	-	-	BV2800	-	-
U	BV122	-	-	BV132	-	-	BV142	-	-	BV142	-	-	-	-	-	-	-	-

Combined adjustment and balancing valve

	200	201	250	300	301	350	400	401	450
Main coil	VDP15HF	VDP15HF	VDP15HF	VDP15HF	VDP15HF	VDP15HF	VDP15HF	VDP15HF	VDP15HF
	VDP15HF24	VDP15HF24	VDP15HF24	VDP15HF24	VDP15HF24	VDP15HF24	VDP15HF24	VDP15HF24	VDP15HF24
	VDP15HFM	VDP15HFM	VDP15HFM	VDP15HFM	VDP15HFM	VDP15HFM	VDP15HFM	VDP15HFM	VDP15HFM
Secondary coil	-	VDP15HF	-	-	VDP15HF	-	-	VDP15HF	-
	-	VDP15HF24	-	-	VDP15HF24	-	-	VDP15HF24	-
	-	VDP15HFM	-	-	VDP15HFM	-	-	VDP15HFM	-
Additional coil "BV"	VDP15HF	-	-	VDP15HF	-	-	VDP15HF	-	-
	VDP15HF24	-	-	VDP15HF24	-	-	VDP15HF24	-	-
	VDP15HFM	-	-	VDP15HFM	-	-	VDP15HFM	-	-

	500	501	550	600	601	650	700	701	750
Main coil	VDP15HF	VDP15HF	VDP15HF	VDP15HF	VDP15HF	VDP15HF	VDP15HF	VDP15HF	VDP15HF
	VDP15HF24	VDP15HF24	VDP15HF24	VDP15HF24	VDP15HF24	VDP15HF24	VDP15HF24	VDP15HF24	VDP15HF24
	VDP15HFM	VDP15HFM	VDP15HFM	VDP15HFM	VDP15HFM	VDP15HFM	VDP15HFM	VDP15HFM	VDP15HFM
Secondary coil	-	VDP15HF VDP15HF24 VDP15HFM	-	-	VDP15HF VDP15HF24 VDP15HFM	-	-	VDP15HF VDP15HF24 VDP15HFM	-
	VDP15HF VDP15HF24 VDP15HFM	-	-	VDP15HF VDP15HF24 VDP15HFM	-	-	VDP15HF VDP15HF24 VDP15HFM	-	-

Valves combinations for main and secondary coil

3-way valve kit - main and secondary coil or accessory BV coil

	200	201	250	300	301	350	400	401	450	500	501	550	600	601	650	700	701	750
Main coil	VCY41	VCY41	VCY41	VCY42	VCY42	VCY42	VCY42	VCY42	VCY42	VCY42	VCY42	VCY42	VCY42	VCY42	VCY42	VCY42	VCY42	VCY42
	VCY4124	VCY4124	VCY4124	VCY4224	VCY4224	VCY4224	VCY4224	VCY4224	VCY4224	VCY4224	VCY4224	VCY4224	VCY4224	VCY4224	VCY4224	VCY4224	VCY4224	VCY4224
Secondary coil	-	VCY44 VCY4424	-	-	VCY44 VCY4424	-	-	VCY44 VCY4424	-	-	VCY44 VCY4424	-	-	VCY44 VCY4424	-	-	VCY44 VCY4424	-
	VCY44 VCY4424	-	-	VCY44 VCY4424	-	-	VCY44 VCY4424	-	-	VCY44 VCY4424	-	-	VCY44 VCY4424	-	-	VCY44 VCY4424	-	-

2-way valve kit - main and secondary coil or accessory BV coil

	200	201	250	300	301	350	400	401	450	500	501	550	600	601	650	700	701	750
Main coil	VCYD1	VCYD1	VCYD1	VCYD2	VCYD2	VCYD2	VCYD2	VCYD2	VCYD2	VCYD2	VCYD2	VCYD2	VCYD2	VCYD2	VCYD2	VCYD2	VCYD2	VCYD2
	VCYD124	VCYD124	VCYD124	VCYD224	VCYD224	VCYD224	VCYD224	VCYD224	VCYD224	VCYD224	VCYD224	VCYD224	VCYD224	VCYD224	VCYD224	VCYD224	VCYD224	VCYD224
Secondary coil	-	VCYD1 VCYD124	-	-	VCYD1 VCYD124	-	-	VCYD1 VCYD124	-	-	VCYD1 VCYD124	-	-	VCYD1 VCYD124	-	-	VCYD1 VCYD124	-
	VCYD1 VCYD124	-	-	VCYD1 VCYD124	-	-	VCYD1 VCYD124	-	-	VCYD1 VCYD124	-	-	VCYD1 VCYD124	-	-	VCYD1 VCYD124	-	-

Valve support kit

Main coil VDP valve support kit.

Model	Ver	200	201	250	300	301	350	400	401	450	500	501	550	600	601	650	700	701	750
KITVPI12 (1)	C,U	•	•	•															
	C				•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
KITVPI34 (2)	U				•	•	•	•	•	•	•	•	•						

(1) Connections Ø 1/2"

(2) Connections Ø 3/4"

Secondary coil VDP valve support kit.

	200	201	250	300	301	350	400	401	450	500	501	550	600	601	650
Main coil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Secondary coil	-	KITVPI12H	-	-	KITVPI12H	-	-	KITVPI12H	-	-	KITVPI12H	-	-	KITVPI12H	-
Additional coil "BV"	KITVPI12H	-	-	KITVPI12H	-	-	KITVPI12H	-	-	KITVPI12H	-	-	KITVPI12H	-	-

	700	701	750
Main coil	-	-	-
Secondary coil	-	KITVPI12H	-
Additional coil "BV"	KITVPI12H	-	-

Connections ø 1/2"

Installation accessories

Plastic caps

Model	Ver	200	201	250	300	301	350	400	401	450	500	501	550	600	601	650	700	701	750
BDP200	C	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	U	•	•	•	•	•	•	•	•	•	•	•	•						

Flange

Model	Ver	200	201	250	300	301	350	400	401	450	500	501	550	600	601	650	700	701	750
BRY210 (1)	C	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	U	•	•	•	•	•	•	•	•	•	•	•	•						
BRY212 (2)	C	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	U	•	•	•	•	•	•	•	•	•	•	•	•						
BRY216 (3)	C	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	U	•	•	•	•	•	•	•	•	•	•	•	•						
BRY220 (4)	C	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	U	•	•	•	•	•	•	•	•	•	•	•	•						

(1) Ø 100 mm

(2) Ø 125 mm

(3) Ø 160 mm

(4) Ø 200 mm

Flange for the installation of the delivery grille GM

Model	Ver	200	201	250	300	301	350	400	401	450	500	501	550	600	601	650	700	701	750
GMV200C (1)	C	*	*	*															
GMV300C (1)	C				*	*	*												
GMV400C (1)	C							*	*	*	*	*	*						
GMV600C (1)	C													*	*	*	*	*	*

(1) only for "C" version.

Flange for the installation of the grille GM17

Model	Ver	200	201	250	300	301	350	400	401	450	500	501	550	600	601	650	700	701	750
GMVU (1)	U	*	*	*	*	*	*	*	*	*	*	*	*						

(1) Only for "U" version with connections "G and D".

Coarse 25% class air filter kit according to ISO16890 (G2 according to EN779)

Model	Ver	200	201	250	300	301	350	400	401	450	500	501	550	600	601	650	700	701	750
AFY100 (1)	U	*	*	*	*	*	*	*	*	*	*	*	*						

(1) To be used with fan coils supplied without a filter installed in unit "X" and in association with GM17 and GMVU.

Air deflector

Model	Ver	200	201	250	300	301	350	400	401	450	500	501	550	600	601	650	700	701	750
DAYKIT	U	*	*	*	*	*	*	*	*	*	*	*	*						

Brackets for ceiling mount.

Model	Ver	200	201	250	300	301	350	400	401	450	500	501	550	600	601	650	700	701	750
AMPY (1)	U	*	*	*	*	*	*	*	*	*	*	*	*						

(1) Only for "U" version.

Condensate discharge device kit

Model	Ver	200	201	250	300	301	350	400	401	450	500	501	550	600	601	650	700	701	750
DSC6 (1)	C	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	U	*	*	*	*	*	*	*	*	*	*	*	*						

(1) Only for "L and R" connections.

Delivery grille

Model	Ver	200	201	250	300	301	350	400	401	450	500	501	550	600	601	650	700	701	750
GM17	U	*	*	*	*	*	*	*	*	*	*	*	*						
GM22	C	*	*	*															
GM32	C				*	*	*												
GM42	C							*	*	*	*	*	*						
GM62	C													*	*	*	*	*	*

Accessories in multiple packages**Hydraulic connection kit**

Model	Ver	200	201	250	300	301	350	400	401	450	500	501	550	600	601	650	700	701	750
CHR12 (1)	C,U	*	*	*															
CHR34 (2)	C				*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	U				*	*	*	*	*	*	*	*	*						

(1) Hydraulic connections Ø 1/2"

(2) Hydraulic connections Ø 3/4"

Half-size filter kit

Model	Ver	200	201	250	300	301	350	400	401	450	500	501	550	600	601	650	700	701	750
DFA2	C,U	*	*	*															
DFA3	C,U				*	*	*												
DFA5	C,U							*	*	*	*	*	*						
DFA7	C													*	*	*	*	*	*

Protection for flange

Model	Ver	200	201	250	300	301	350	400	401	450	500	501	550	600	601	650	700	701	750
PPB	C	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	U	*	*	*	*	*	*	*	*	*	*	*	*						

**PERFORMANCE DATA - FCY_C AND FCY_U
(CONFIGURATION OF THE H NOZZLES) - 2 PIPES**

2-pipe

	FCY200C			FCY250C			FCY300C			FCY350C			FCY400C			FCY450C			
	2	4	6	2	4	6	1	4	6	1	4	6	1	3	6	1	3	6	
	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H	
Heating performance 70 °C / 60 °C (1)																			
Heating capacity	kW	2,11	3,00	3,32	2,29	3,24	3,60	3,50	5,03	5,45	3,80	5,59	6,10	4,49	6,02	6,74	4,79	6,62	7,40
Water flow rate system side	l/h	182	258	285	197	279	310	301	433	469	327	481	524	386	517	580	412	569	637
Pressure drop system side	kPa	7	12	15	9	16	19	8	15	18	9	18	21	11	18	22	7	12	15
Heating performance 45 °C / 40 °C (2)																			
Heating capacity	kW	1,05	1,49	1,65	1,14	1,61	1,79	1,74	2,50	2,71	1,89	2,78	3,03	2,23	2,99	3,35	2,38	3,29	3,68
Water flow rate system side	l/h	160	224	248	196	277	308	299	430	466	325	478	521	383	514	576	409	566	633
Pressure drop system side	kPa	7	12	15	9	16	19	8	15	18	9	17	20	11	18	22	7	12	15
Cooling performance 7 °C / 12 °C																			
Cooling capacity	kW	0,93	1,30	1,44	1,11	1,59	1,74	1,70	2,40	2,63	1,91	2,77	3,00	2,29	3,06	3,41	2,51	3,37	3,79
Sensible cooling capacity	kW	0,74	1,14	1,18	0,83	1,23	1,36	1,27	1,86	2,03	1,34	1,99	2,16	1,66	2,24	2,52	1,76	2,42	2,73
Water flow rate system side	l/h	160	224	248	191	273	299	292	413	452	328	476	516	394	526	586	432	580	652
Pressure drop system side	kPa	8	13	15	10	18	21	9	16	18	11	21	25	11	18	22	11	16	20
Fan																			
Type	type	Centrifugal																	
Fan motor	type	Asynchronous																	
Air flow rate	m³/h	148	226	254	148	226	254	263	404	446	263	404	446	346	487	559	346	487	559
High static pressure	Pa	21	50	63	21	50	63	21	50	61	21	50	61	25	50	66	25	50	66
Sound power level (inlet + radiated)	dB(A)	41,0	56,0	59,0	41,0	56,0	59,0	39,0	51,0	54,0	39,0	51,0	54,0	44,0	54,0	55,0	44,0	54,0	55,0
Sound power level (outlet)	dB(A)	37,0	52,0	55,0	37,0	52,0	55,0	35,0	47,0	49,0	35,0	47,0	49,0	40,0	50,0	52,0	40,0	50,0	52,0
Input power	W	28	41	74	28	41	74	38	55	78	38	55	78	53	63	102	53	63	102
Finned pack heat exchanger																			
Water content	l	0,5			0,7			0,8			1,0			1,0			1,4		
Diameter hydraulic fittings																			
Main heat exchanger	Ø	1/2"			1/2"			3/4"			3/4"			3/4"			3/4"		
Power supply																			
230V~50Hz																			
	FCY500C			FCY550C			FCY600C			FCY650C			FCY700C			FCY750C			
	1	5	6	1	5	6	1	4	7	1	4	7	2	5	7	2	5	7	
	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H	
Heating performance 70 °C / 60 °C (1)																			
Heating capacity	kW	5,27	7,22	7,59	5,81	8,25	8,67	6,86	8,55	10,00	7,63	9,72	11,51	8,77	10,10	10,52	10,02	11,65	12,09
Water flow rate system side	l/h	453	621	652	500	709	746	590	735	860	656	836	990	754	868	905	862	1002	1040
Pressure drop system side	kPa	12	21	23	10	19	21	13	20	26	15	23	31	19	25	27	12	15	16
Heating performance 45 °C / 40 °C (2)																			
Heating capacity	kW	2,62	3,59	3,77	2,89	4,10	4,31	3,41	4,25	4,97	3,79	4,83	5,72	4,36	5,02	5,23	4,98	5,79	6,01
Water flow rate system side	l/h	451	617	648	497	705	741	586	731	855	652	831	984	750	863	899	856	996	1034
Pressure drop system side	kPa	12	21	23	10	19	21	13	19	25	15	23	31	19	25	27	12	15	16
Cooling performance 7 °C / 12 °C																			
Cooling capacity	kW	2,68	3,65	3,82	2,91	4,08	4,28	3,37	4,08	4,65	4,15	5,02	5,67	4,24	4,97	5,18	4,69	5,53	5,80
Sensible cooling capacity	kW	1,94	2,70	2,83	2,07	2,94	3,09	2,70	3,34	3,92	2,93	3,60	4,12	3,24	3,83	4,02	3,53	4,20	4,41
Water flow rate system side	l/h	461	628	657	500	702	736	580	702	800	714	863	975	729	855	891	807	951	997
Pressure drop system side	kPa	13	22	24	12	21	23	15	21	26	16	23	28	20	26	28	12	16	17
Fan																			
Type	type	Centrifugal																	
Fan motor	type	Asynchronous																	
Air flow rate	m³/h	400	592	627	400	592	627	567	770	920	567	770	920	785	978	1050	785	978	1050
High static pressure	Pa	22	50	56	22	50	56	27	50	71	27	50	71	32	50	58	32	50	58
Sound power level (inlet + radiated)	dB(A)	45,0	55,0	57,0	45,0	55,0	57,0	46,0	56,0	61,0	46,0	56,0	61,0	54,0	60,0	62,0	54,0	60,0	62,0
Sound power level (outlet)	dB(A)	41,0	51,0	53,0	41,0	51,0	53,0	44,0	54,0	60,0	44,0	54,0	60,0	52,0	59,0	61,0	52,0	59,0	61,0
Input power	W	49	80	96	49	80	96	66	89	118	66	89	118	92	117	138	92	117	138
Finned pack heat exchanger																			
Water content	l	1,0			1,4			1,2			1,6			1,2			1,6		
Diameter hydraulic fittings																			
Main heat exchanger	Ø	3/4"																	
Power supply																			
230V~50Hz																			

(1) Room air temperature 20 °C d.b.; Water (in/out) 70 °C/60 °C

(2) Room air temperature 20 °C d.b.; Water (in/out) 45 °C/40 °C; EUROVENT

Refer to the selection software for performance data related to the different configurations.

PERFORMANCE DATA FCY_C AND FCY_U (CONFIGURATION OF THE H NOZZLES) - 4 PIPES

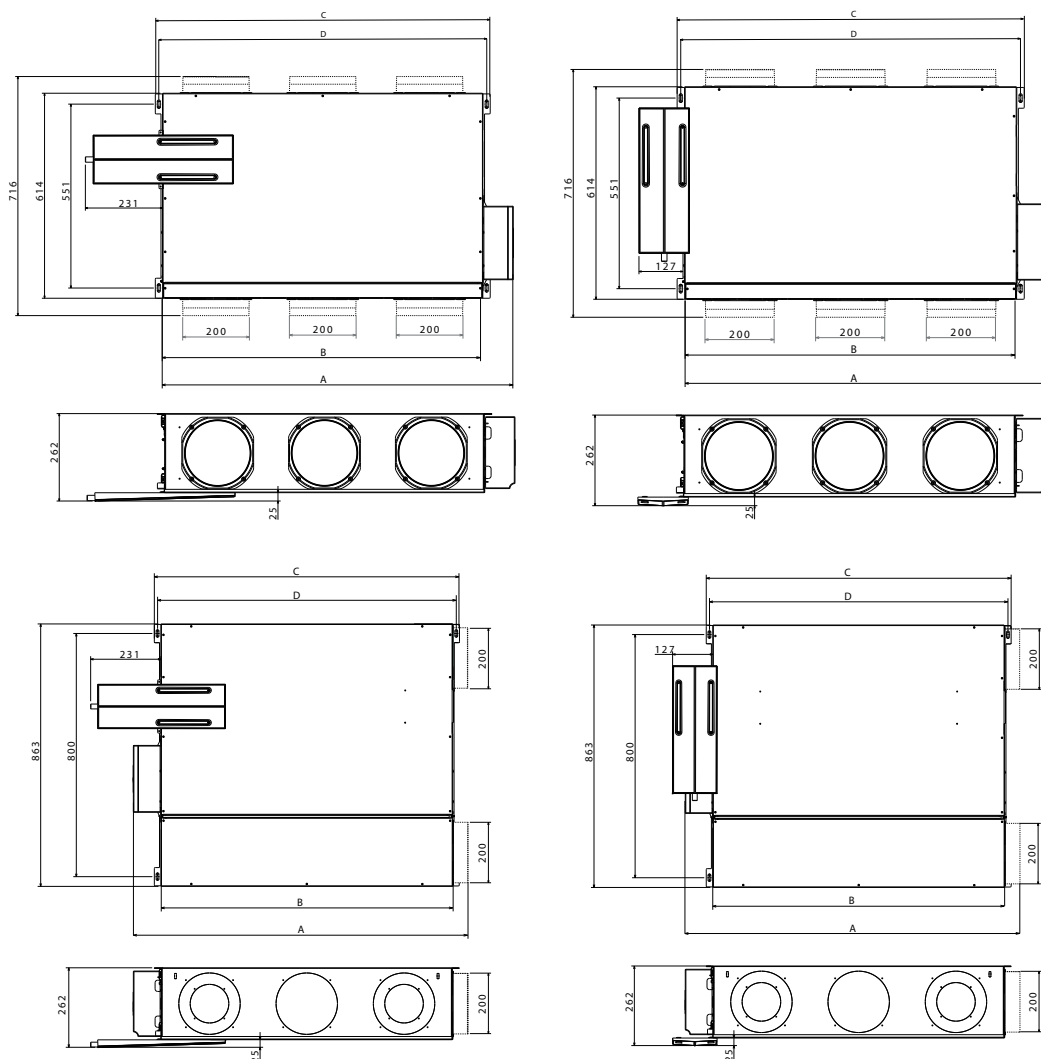
4-pipe

		FCY201C			FCY301C			FCY401C			FCY501C			FCY601C			FCY701C		
		2	4	6	1	4	6	1	3	6	1	5	6	1	4	7	2	5	7
		L	M	H	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H
Heating performance 65 °C / 55 °C (1)																			
Heating capacity	kW	1,06	1,37	1,48	1,82	2,39	2,55	2,19	2,75	2,99	2,59	3,30	3,34	3,13	3,85	4,35	4,13	4,40	4,60
Water flow rate system side	l/h	93	120	130	159	210	223	192	240	262	226	290	301	274	336	381	361	385	403
Pressure drop system side	kPa	5	8	9	8	12	14	5	7	8	6	9	9	9	13	16	16	15	17
Cooling performance 7 °C / 12 °C																			
Cooling capacity	kW	0,93	1,30	1,44	1,70	2,40	2,63	2,29	3,06	3,41	2,68	3,65	3,82	3,37	4,08	4,65	4,24	4,97	5,18
Sensible cooling capacity	kW	0,74	1,14	1,18	1,27	1,86	2,03	1,66	2,24	2,52	1,94	2,70	2,83	2,70	3,34	3,92	3,24	3,83	4,02
Water flow rate system side	l/h	160	224	248	292	413	452	394	526	586	461	628	657	580	702	800	729	855	891
Pressure drop system side	kPa	8	13	15	9	16	18	11	18	22	13	22	24	15	21	26	20	26	28
Fan																			
Type	type	Centrifugal																	
Fan motor	type	Asynchronous																	
Air flow rate	m³/h	148	226	254	263	404	446	346	487	559	400	592	627	567	770	920	785	978	1050
High static pressure	Pa	21	50	63	21	50	61	25	50	66	22	50	56	27	50	71	32	50	58
Sound power level (inlet + radiated)	dB(A)	41,0	56,0	59,0	39,0	51,0	54,0	44,0	54,0	55,0	45,0	55,0	57,0	46,0	56,0	61,0	54,0	60,0	62,0
Sound power level (outlet)	dB(A)	37,0	52,0	55,0	35,0	47,0	49,0	40,0	50,0	52,0	41,0	51,0	53,0	44,0	54,0	60,0	52,0	59,0	61,0
Input power	W	28	41	74	38	55	78	53	63	102	49	80	96	66	89	118	92	117	138
Diameter hydraulic fittings																			
Main heat exchanger	Ø	1/2"			3/4"			3/4"			3/4"			3/4"			3/4"		
Secondary heat exchanger	Ø	1/2"																	
Power supply																			
Power supply		230V~50Hz																	

(1) Room air temperature 20°C d.b.; Water (in/out) 65 °C/55 °C; EUROVENT

Refer to the selection software for performance data related to the different configurations.

DIMENSIONS



FCY - C

Size		200	201	250	300	301	350	400	401	450	500	501	550	600	601	650	700	701	750
Dimensions and weights																			
A	mm	598	598	598	829	829	829	1050	1050	1050	1050	1050	1050	1171	1171	1171	1171	1171	1171
B	mm	507	507	507	735	735	735	960	960	960	960	960	960	1080	1080	1080	1080	1080	1080
C	mm	550	550	550	781	781	781	1003	1003	1003	1003	1003	1003	1122	1122	1122	1122	1122	1122
D	mm	529	529	529	760	760	760	982	982	982	982	982	982	1100	1100	1100	1100	1100	1100
Empty weight	kg	19	20	21	23	24	26	31	32	33	31	32	33	41	43	46	41	43	46

FCY - U

Size		200	201	250	300	301	350	400	401	450	500	501	550
Dimensions and weights													
A	mm	647	647	647	878	878	878	1100	1100	1100	1100	1100	1100
B	mm	508	508	508	739	739	739	960	960	960	960	960	960
C	mm	550	550	550	781	781	781	1003	1003	1003	1003	1003	1003
D	mm	529	529	529	760	760	760	982	982	982	982	982	982
Empty weight	kg	22	23	24	26	27	29	35	36	37	35	36	37

Aermec reserves the right to make any modifications deemed necessary.
All data is subject to change without notice. Aermec does not assume responsibility or liability for errors or omissions.

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FCYI

Fan coil unit for ducted installations

- Plug and play installation only in horizontal
- Reduced dimensions
- Inspectable ventilation group



DESCRIPTION

Monobloc duct type fan coils for heating and/or cooling small and medium-sized environments for civil and commercial use.

They were designed and built for flush horizontal installation in any type of 2/4 pipe system and in combination with any heat generator, also at low temperatures.

Thanks to the availability of various versions and configurations, with a standard or oversized coil, it is easy to select the optimal solution for any requirement.

FEATURES

Ventilation group

Centrifugal fans in anti-static plastic material with aerofoil profile designed to achieve high airflows and pressures whilst at the same time producing low noise.

Their characteristics permit energy savings compared to conventional fans. They are statically and dynamically balanced and directly coupled to the motor shaft.

The Brushless electric motor with 0-100% continuous speed variation, which allows precise adaptation to the real demands of the internal environment without temperature fluctuations.

The air flow can be continuously changed through a 1-10 V signal, coming from adjustment and control commands Aermec or from independent adjustment systems.

This lowers noise and generates a better response to heat loads and a higher stability in the desired temperature inside the room.

The high efficiency even with low speed, makes it possible to reduce power consumption (more than 50% less than fan coils with traditional motors). The plastic augers are extractable for easy and efficient cleaning.

Heat exchanger coil

With copper pipes and aluminium louvers, the standard or oversized heat exchanger and the possible secondary heat exchanger have female gas water connections on the left side and the manifolds have air vents.

■ *Reversibility of the water connections during installation only for units with a main standard or oversized coil or standard with BV accessory. Not reversible in all other configurations.*

Air filter

Where present, the **Coarse 25% Class according to ISO16890 (G2 according to EN779)** air filter, which is easy to remove and clean.

Condensate drip

In addition to the internal tray, all units are equipped with a **configurable external condensate collection tray** during installation.

Control

The unit's electrical box is reversible, with the option of mounting it also on the same side of the water connections.

The standard equipment includes a single 10-pin control board as an interface for the electrical connections, the preparation for the VMF series thermostat fastener and the included supply of a DIN guide for the installation of a third-party control.

GUIDE TO SELECTING THE POSSIBLE CONFIGURATIONS

Field	Description
1,2,3,4	FCYI
5	Size 2, 3, 4, 5, 7
6	main heat exchanger (1)
0	Standard
5	Oversized
7	Secondary heat exchanger
0	Without coil
1	Standard (2)
8	Version
C	Compact
U	Universal (3)
9	Connections
D	Water connections and electrical panel on the right
G	Water connections and electrical panel on the left
L	Hydraulic connections on the left and electric connections on the opposite side
R	Hydraulic connections on the right and electric connections on the opposite side
10	Options
H	Electric heater (500W) (4)
P	With the photocatalytic device (4)
X	No present
11	Filter
F	With air filter (5)
G	On the GKY accessory (6)
X	No present

(1) Reversibility of the water connections during installation only for units with a main standard or oversized coil. They are not reversible for units with a secondary coil.

(2) Only for the standard main coil

(3) Only for sizes from 2 to 5

(4) Options "P and H" are available only in units for 2-pipe systems.

(5) The DFA kit must mandatorily be installed on the units The DFA kit must mandatorily be installed on the units in option "F".

(6) Only for sizes 2 and 3, without secondary heat exchanger (0), in U version, D connections, without RX or photocatalytic device (X).

SIZE AVAILABLE FOR VERSION

C version

Size	200	201	250	300	301	350	400	401	450	500	501	550	700	701	750
Versions produced (by size)															
Versions available (by size)	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*

Version U

Size	200	201	250	300	301	350	400	401	450	500	501	550
Versions produced (by size)												
Versions available (by size)	*	*	*	*	*	*	*	*	*	*	*	*

INSTALLATION VERSIONS AND EXAMPLES

C: Compact version.

Compact structure with opposed intake and delivery lines, for an "H"-shaped configuration.

The unit is provided without openings and without flanges, which can be purchased separately as an accessory.

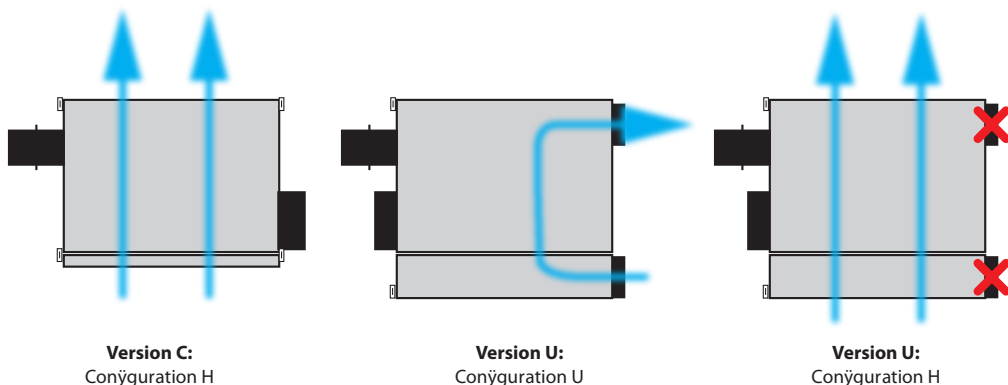
The delivery and intake part of the structure is designed to house flanges of Ø 200 mm (or Ø 160 mm) and one of the intake flanges can be replaced by a Ø 125 or 100 mm flange for the intake of outside air.

On the side, it can house Ø 125 or 100 mm flanges for the intake of outside air for delivery.

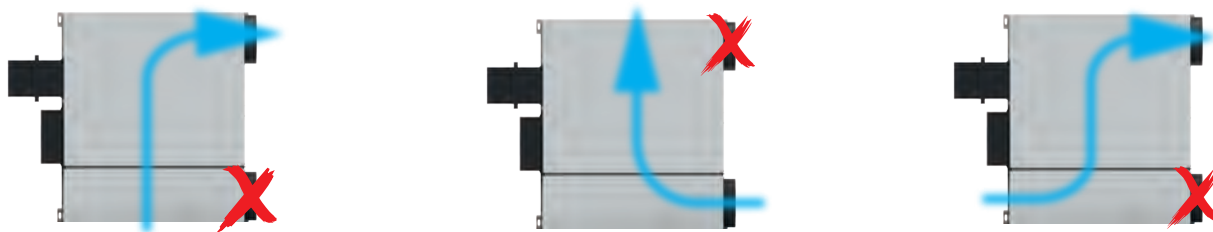
U: Universal version.

Structure for the "U" configuration with intake and delivery on the same side, opposite of the side with the water connections and the electrical box. The delivery and intake part of the structure is designed to house flanges of Ø 200 mm (or Ø 160 mm) and one of the intake or delivery flanges can be replaced by a Ø 125 or 100 mm flange for the intake of outside air.

This version is called universal because it guarantees the possible installations permitted by the C version and adds additional possibilities.



POSSIBLE ALTERNATIVE CONFIGURATIONS OF THE U VERSION

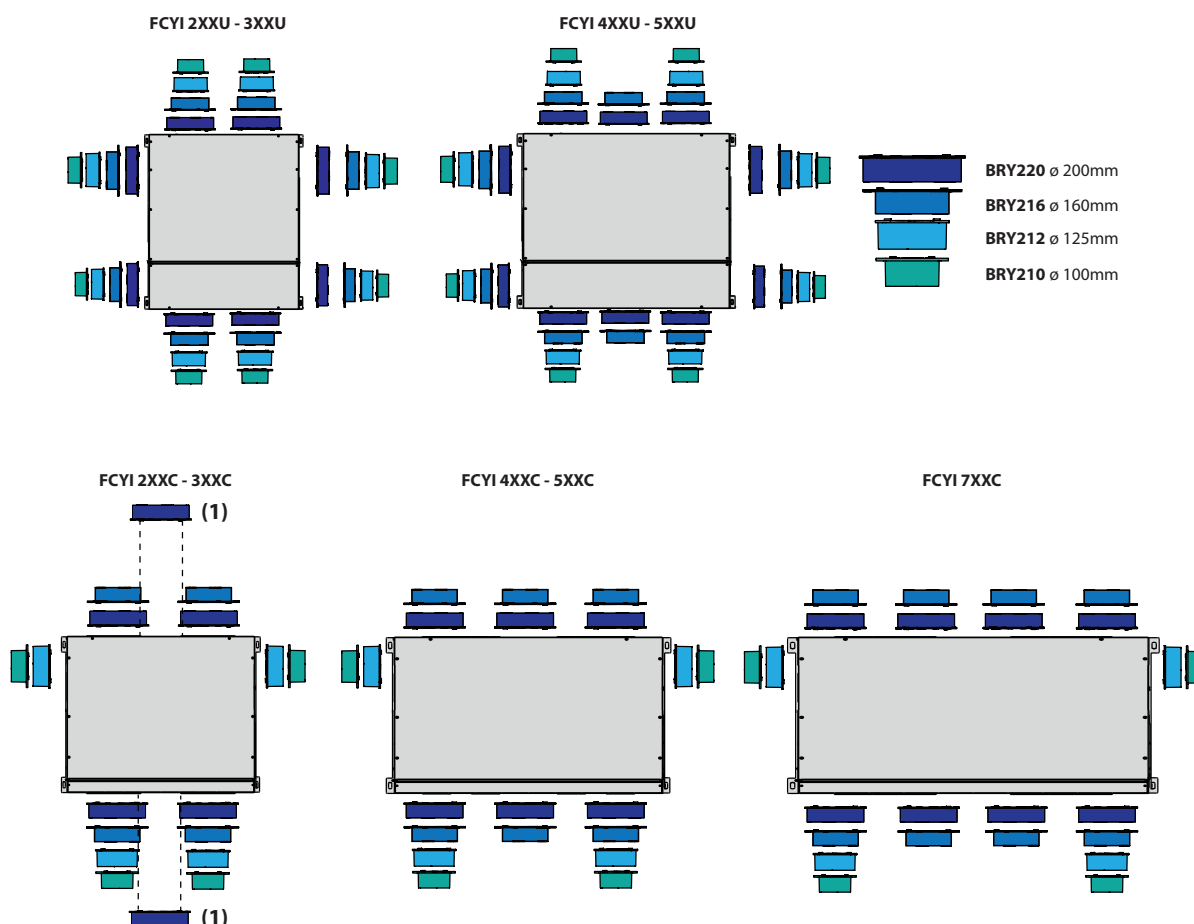


The performance data for the configurations shown here are equal to those for the U version in the U configuration.

POSSIBLE POSITIONS FOR THE INSTALLATION OF THE BRY ACCESSORIES

In every unit it is possible to use a maximum of one flange accessory for the intake of outside air (BRY210 or BRY212). The number and position of the preparations for the installation of the BRY accessories varies based on the unit size and version.

The standard **C version unit** is supplied without flanges, which can be purchased separately as an accessory.



- 1 There is a central preparation for the installation of an accessory BRY220 as an alternative to using the two more external preparations.

For the C version: it is necessary to use a number of recirculation air preparations at least equal to the maximum number possible for the size selected less 1.

Example: for FCY6xxC it is necessary to open at least 3 flange preparations for intake recirculation air and 3 flange preparations for delivery recirculation air (= maximum number - 1).

In both versions if the number of intake/delivery flanges used is less than the maximum possible for the considered size, their diameter must be 200 mm (BRY220).

Example: for FCYI7xxC it is necessary to open at least 3 flange preparations for intake recirculation air and 3 flange preparations for delivery recirculation air (= maximum number - 1).

For more information about the possible configurations for both versions, refer to the unit's selection software.

ACCESSORIES

Control panels

AER503IR: Flush-mounting thermostat with backlit display, capacitive keypad and infrared receiver, for controlling both brushless fan coils and those with an asynchronous motor. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices (Cold Plasma and germicidal lamp), with radiant plate or with FCZ-D twin delivery (Dualjet). In addition, it can control systems with radiant panels or mixed (fan coil and radiant floor) systems. Being equipped with an infrared receiver, it can, in turn, be controlled by the VMF-IR remote control.

SA5: air probe kit (L = 15 m) with probe-locking cable grommet.

SW3: Water probe (L = 2.5 m) for controlling the minimum and maximum and to allow automatic seasonal switching for electronic thermostats fitted with water side changeover.

SW5: water probe kit (L = 15m) with probe-holder connection point, fixing clip and probe-holder from heat exchanger.

TX: Wall-mounting thermostat for controlling either brushless fan coils or those with asynchronous motors for 2/4 pipe. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices, radiant plate or FCZ-D twin delivery (Dualjet).

AerSuite

The AerSuite application is used to remotely control the DI24 user interface, with VMF-E19/VMF-E19I thermostats, using Smart Devices with iOS and Android operating systems.

This is an application for Smartphones and Tablets with which the user can access and control the system operation remotely.

For more information about the use of the application and the available functions, refer to the respective documentation on the website.



VMF system

DI24: Flush-mounted interface (503 box) with 2.4" touch screen display to be combined with VMF-E19, VMF-E19I accessories. It allows you to regulate and monitor the temperature inside rooms precisely and on time; in addition to accessing and interacting with your system's operating information, parameters and alarms, it allows you to set time slots. Thanks to its Wi-Fi connection, DI24 in combination with the AerSuite APP (available for Android and iOS) can also be remotely controlled. All programming and most functions are done in a simple and intuitive way using the APP. To allow for customization of the interface so that it seamlessly integrates with the style of any home, DI24 is compatible with switch plates from major brands available on the market. For more information, please refer to our documentation. However, a switch plate with its graphite gray support, DI24CP, is also available as a separate accessory in our catalog.

VMF-E19Y: Thermostat to be fixed on the side of the fan coil, fitted as standard with an air and water probe. Depending on the option chosen (P - X - H), VMF-E19Y must be completed with the mandatory electrical completion unit accessory (VMF-YCC, VMF-YCCH or VMF-YCCK / VMF-YICCK).

VMF-E3: Wall mounted user interface, to be combined with accessories VMF-E19, VMF-E19I, with grids GLF_N/M and GLL_N, can be controlled with VMF-IR control.

VMF-E4DX: Wall-mounted user interface. Grey front panel PANTONE 425C (METAL).

VMF-E4X: Wall-mounted user interface. Light grey front panel PANTONE COOL GRAY 1C.

VMF-IR: User interface compatible with the AER503IR, VMF-E3 thermostat and with all the grids of cassettes equipped with the infrared receiver compatible with the VMF system.

VMF-SW: Water probe (L = 2.5m) used if required in place of the standard unit supplied with the VMF-E19 and VMF-E19I thermostats for mounting it upstream of the valve.

VMF-SW1: Additional water probe (L = 2.5m) to be used if required for 4-pipe systems with the VMF-E19 and VMF-E19I thermostats for maximum control in the cold range

VMF-YICC: Electric inverter completion unit for the VMF-E19Y accessory (mandatory for the unit with options P and X).

VMF-YICCH: Electric inverter completion unit for the VMF-E19Y accessory (mandatory for the unit with option H).

VMF-YICCK: Electric inverter completion unit for the VMF-E19Y accessory, mandatory for FCYI units with GKY accessory.

Valves for main coil

VCY41 - 42 - for main heat exchanger: 3-way motorised valve kit for the main coil. The kit consists of a valve, an actuator and the relative pipe fittings. It can be installed on fan coils with both right and left hydraulic connections.

VCYD for main and secondary coil: The 2-way motorised valve kit for the primary or secondary coil or an additional optional heat only coil. The kit consists of a valve, the actuator and the corresponding hydraulic fittings. It can be installed both on fan coils with right-hand and left-hand connections.

VDP15HF: Combined adjustment and balancing valve, for 2 and 4 pipe systems to be installed outside the unit. It is comprised of a valve body without nipples with Ø 3/4" M water connections, a 230 V powered actuator with On-Off function and a 5 m power supply cable. The valve is supplied without connections or hydraulic components.

VDP15HF24: Combined adjustment and balancing valve, for 2 and 4 pipe systems to be installed outside the unit. It is comprised of a valve body without nipples with Ø 3/4" M water connections, a 24 V powered actuator with On-Off function and a 5 m power supply cable. The valve is supplied without connections or hydraulic components.

VDP15HFM: Combined adjustment and balancing valve, for 2 and 4 pipe systems to be installed outside the unit. It is comprised of a valve body without nipples with Ø 3/4" M water connections, a 24 V powered actuator with modulating function and a 5 m power supply cable. The valve is supplied without connections or hydraulic components.

Valves for secondary coil

VCY44 - for secondary heat exchanger: 3-way motorized valve kit for hot only coil. The kit consists of a valve, actuator and relative hydraulic fittings, it is suitable for installation on both fan coils with hydraulic connections on the right and left.

VCYD for main and secondary coil: The 2-way motorised valve kit for the primary or secondary coil or an additional optional heat only coil. The kit consists of a valve, the actuator and the corresponding hydraulic fittings. It can be installed both on fan coils with right-hand and left-hand connections.

Additional hot water coil.

BV: Hot water heat exchanger with 1 row.

Valve support kit

KITVPI: Main coil VDP valve support kit. The kit consists of a bracket for supporting the valve and the corresponding hydraulic fittings.

KITVPI12H: VDP valve support kit for the secondary coil. The kit consists of a bracket for supporting the valve and the corresponding hydraulic fittings.

Installation accessories

BDP: 200 mm plug.

BRY: Flange with hydraulic "spigot" connection.

GMYC: Plate flange that makes it possible to install the accessory GM either in the intake section or in the delivery section. The accessory is comprised of a plate flange with gasket and 4 screws to fasten it to the unit.

AFY: the kit is comprised of a Coarse 25% class filter according to ISO16890 (G2 according to EN779) and four fastening brackets to insert in the grille GM17. To be used together with fan coils supplied without a filter installed in unit "X".

GM17: Plate flange that makes it possible to install the accessory GM17 either in the intake section or in the delivery section. The accessory is comprised of a plate flange with gasket and 4 screws to fasten it to the unit.

DSC: Condensate drainage device.

DAYKIT: Air deflector for U versions. To be installed in the delivery plenum, on the side opposite the air outlet, to facilitate the flow towards the delivery opening.

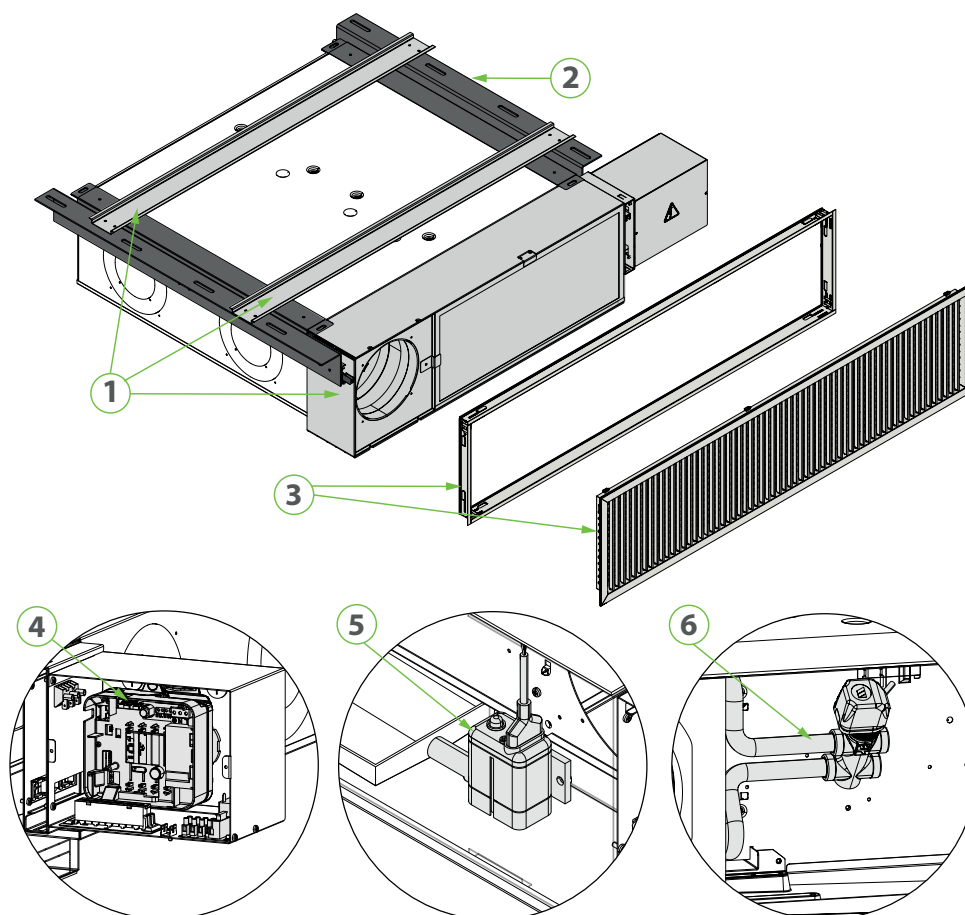
AMPY: Additional brackets for ceiling mount. Only for "U" version.

Accessories in multiple packages

DFA: Size of filter halved on the short side. The kit is comprised of two filters with a length equal to the standard filter and with half the height. This facilitates filter cleaning and/or replacement operations if there is a reduced space for vertical extraction. 20 piece package.

PPB: Protection for flanges to be used during installation to prevent dust from entering the unit before connecting the ducts. To be removed when making the connection. 100 piece package.

New GKY equipped flange



- 1 GKY
- 2 GKY2GT- GKY3GT (mandatory accessory)
- 3 GKYG (mandatory accessory)
- 4 VMF-E19Y + VMF-YICCK (FCYI) / VMF-YCCK (FCY) (optional accessory)
- 5 DSC6 (optional accessory)
- 6 2 pipes with 2/3-way valve (optional accessory)

GKY: Extractable galvanised sheet metal equipped flange with electric box, allows for routine and extraordinary maintenance without the need for an inspection hatch underneath. The accessory is only compatible for units in UDXG configuration and recirculation air openings on the right side.

GKY2GT: Accessory mandatory for the installation of the GKY plenum, consisting of telescopic guides compatible with size 2.

GKY3GT: Accessory mandatory for the installation of the GKY plenum, consisting of telescopic guides compatible with size 3.

GKYG: grille kit in RAL9010 colour with counterframe, mandatory accessory compatible with GKY equipped flange accessory.

Extractable equipped flange

Model	Ver	200	201	250	300	301	350	400	401	450	500	501	550	700	701	750
GKY	U	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

Telescopic guides

Model	Ver	200	201	250	300	301	350	400	401	450	500	501	550	700	701	750
GKY2GT (1)	U	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

(1) Accessory mandatory for the installation of the GKY plenum

Telescopic guides

Model	Ver	200	201	250	300	301	350	400	401	450	500	501	550	700	701	750
GKY3GT (1)	U	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

(1) Accessory mandatory for the installation of the GKY plenum

Grid kit

Model	Ver	200	201	250	300	301	350	400	401	450	500	501	550	700	701	750
GKYG	U	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

ACCESSORIES COMPATIBILITY

Control panels and dedicated accessories

Model	Ver	200	201	250	300	301	350	400	401	450	500	501	550	700	701	750
AERS03IR (1)	C	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	U	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
SAS (2)	C	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	U	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
SW3 (2)	C	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	U	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
SW5 (2)	C	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	U	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
TX (3)	C	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	U	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

(1) Wall-mount installation.

(2) Probe for AERS03IR-TX thermostats, if fitted.

(3) Wall-mounting. If the unit intake exceeds 0.7A, or several units need to be managed with a single thermostat, board SIT3 and/or SIT5 is required.

VMF system

Model	Ver	200	201	250	300	301	350	400	401	450	500	501	550	700	701	750
DI24	C	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	U	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
VMF-E19Y	C	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	U	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
VMF-E3	C	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	U	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
VMF-E4DX	C	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	U	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
VMF-E4X	C	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	U	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
VMF-IR	C	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	U	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
VMF-SW	C	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	U	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
VMF-SW1	C	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	U	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
VMF-YICC	C	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	U	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
VMF-YICCH	C	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	U	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
VMF-YICCK	U	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

Additional heat only coil for only option "X" (without an electric heater and without a photocatalytic device)

Ver	200	201	250	300	301	350	400	401	450	500	501	550	700	701	750
C	BV122	-	-	BV132	-	-	BV142	-	-	BV142	-	-	BV2800	-	-
U	BV122	-	-	BV132	-	-	BV142	-	-	BV142	-	-	-	-	-

Combined adjustment and balancing valve

	200	201	250	300	301	350	400	401	450
Main coil	VDP15HF	VDP15HF	VDP15HF	VDP15HF	VDP15HF	VDP15HF	VDP15HF	VDP15HF	VDP15HF
	VDP15HF24	VDP15HF24	VDP15HF24	VDP15HF24	VDP15HF24	VDP15HF24	VDP15HF24	VDP15HF24	VDP15HF24
	VDP15HFM	VDP15HFM	VDP15HFM	VDP15HFM	VDP15HFM	VDP15HFM	VDP15HFM	VDP15HFM	VDP15HFM
Secondary coil	-	VDP15HF VDP15HF24 VDP15HFM	-	-	VDP15HF VDP15HF24 VDP15HFM	-	-	VDP15HF VDP15HF24 VDP15HFM	-
	VDP15HF VDP15HF24 VDP15HFM	-	-	VDP15HF VDP15HF24 VDP15HFM	-	-	VDP15HF VDP15HF24 VDP15HFM	-	-
	500	501	550	700	701	750			
Main coil	VDP15HF	VDP15HF	VDP15HF	VDP15HF	VDP15HF	VDP15HF	VDP15HF		
	VDP15HF24	VDP15HF24	VDP15HF24	VDP15HF24	VDP15HF24	VDP15HF24	VDP15HF24		
	VDP15HFM	VDP15HFM	VDP15HFM	VDP15HFM	VDP15HFM	VDP15HFM	VDP15HFM		
Secondary coil	-	VDP15HF VDP15HF24 VDP15HFM	-	-	-	VDP15HF VDP15HF24 VDP15HFM	-		
	VDP15HF VDP15HF24 VDP15HFM	-	-	-	VDP15HF VDP15HF24 VDP15HFM	-	-		

Valves combinations for main and secondary coil

3-way valve kit - main and secondary coil or accessory BV coil

	200	201	250	300	301	350	400	401	450	500	501	550	700	701	750
Main coil	VCY41	VCY41	VCY41	VCY42	VCY42	VCY42	VCY42	VCY42	VCY42	VCY42	VCY42	VCY42	VCY42	VCY42	VCY42
	VCY4124	VCY4124	VCY4124	VCY4224	VCY4224	VCY4224	VCY4224	VCY4224	VCY4224	VCY4224	VCY4224	VCY4224	VCY4224	VCY4224	VCY4224
Secondary coil	-	VCY44	-	-	VCY44	-	-	VCY44	-	-	VCY44	-	-	VCY44	-
		VCY4424			VCY4424			VCY4424			VCY4424			VCY4424	
Additional coil "BV"	VCY44	-	-	VCY44	-	-	VCY44	-	-	VCY44	-	-	VCY44	-	-
	VCY4424			VCY4424			VCY4424			VCY4424			VCY4424		

2-way valve kit - main and secondary coil or accessory BV coil

	200	201	250	300	301	350	400	401	450	500	501	550	700	701	750
Main coil	VCYD1	VCYD1	VCYD1	VCYD2	VCYD2	VCYD2	VCYD2	VCYD2	VCYD2	VCYD2	VCYD2	VCYD2	VCYD2	VCYD2	VCYD2
	VCYD124	VCYD124	VCYD124	VCYD224	VCYD224	VCYD224	VCYD224	VCYD224	VCYD224	VCYD224	VCYD224	VCYD224	VCYD224	VCYD224	VCYD224
Secondary coil	-	VCYD1	-	-	VCYD1	-	-	VCYD1	-	-	VCYD1	-	-	VCYD1	-
		VCYD124			VCYD124			VCYD124			VCYD124			VCYD124	
Additional coil "BV"	VCYD1	-	-	VCYD1	-	-	VCYD1	-	-	VCYD1	-	-	VCYD1	-	-
	VCYD124			VCYD124			VCYD124			VCYD124			VCYD124		

Valve support kit

Main coil VDP valve support kit.

Model	Ver	200	201	250	300	301	350	400	401	450	500	501	550	700	701	750
KITVPI12 (1)	C,U	*	*	*												
KITVPI34 (2)	C				*	*	*	*	*	*	*	*	*	*	*	*
	U				*	*	*	*	*	*	*	*	*	*	*	*

(1) Connections Ø 1/2"

(2) Connections Ø 3/4"

Secondary coil VDP valve support kit.

	200	201	250	300	301	350	400	401	450	500	501	550	700	701	750
Main coil															
Secondary coil	-	KITVPI12H	-	-	KITVPI12H	-	-	KITVPI12H	-	-	KITVPI12H	-	-	KITVPI12H	-
Additional coil "BV"	KITVPI12H	-	-	KITVPI12H	-	-	KITVPI12H	-	-	KITVPI12H	-	-	KITVPI12H	-	-

Connections Ø 1/2"

Installation accessories

Plastic caps

Model	Ver	200	201	250	300	301	350	400	401	450	500	501	550	700	701	750
BDP200	C	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	U	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*

Flange

Model	Ver	200	201	250	300	301	350	400	401	450	500	501	550	700	701	750
BRY210 (1)	C	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	U	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
BRY212 (2)	C	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	U	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
BRY216 (3)	C	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	U	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
BRY220 (4)	C	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	U	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*

(1) Ø 100 mm

(2) Ø 125 mm

(3) Ø 160 mm

(4) Ø 200 mm

Flange for the installation of the delivery grille GM

Model	Ver	200	201	250	300	301	350	400	401	450	500	501	550	700	701	750
GMV200C (1)	C	*	*	*												
GMV300C (1)	C				*	*	*									
GMV400C (1)	C							*	*	*	*	*	*			
GMV600C (1)	C													*	*	*

(1) only for "C" version.

Flange for the installation of the grille GM17

Model	Ver	200	201	250	300	301	350	400	401	450	500	501	550	700	701	750
GMVU (1)	U	*	*	*	*	*	*	*	*	*	*	*	*			

(1) Only for "U" version with connections "G and D".

Coarse 25% class air filter kit

Model	Ver	200	201	250	300	301	350	400	401	450	500	501	550	700	701	750
AFY100 (1)	U	*	*	*	*	*	*	*	*	*	*	*	*			

(1) To be used with fan coils supplied without a filter installed in unit "X" and in association with GM17 and GMVU.

Air deflector

Model	Ver	200	201	250	300	301	350	400	401	450	500	501	550	700	701	750
DAYKIT	U	*	*	*	*	*	*	*	*	*	*	*	*			

Brackets for ceiling mount.

Model	Ver	200	201	250	300	301	350	400	401	450	500	501	550	700	701	750
AMPY (1)	U	*	*	*	*	*	*	*	*	*	*	*	*			

(1) Only for "U" version.

Condensate discharge device kit

Model	Ver	200	201	250	300	301	350	400	401	450	500	501	550	700	701	750
DSC6 (1)	C	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	U	*	*	*	*	*	*	*	*	*	*	*	*			

(1) Only for "L and R" connections.

Condensate drip

Accessories in multiple packages

Hydraulic connection kit

Model	Ver	200	201	250	300	301	350	400	401	450	500	501	550	700	701	750
CHR12 (1)	C,U	*	*	*												
CHR34 (2)	C				*	*	*	*	*	*	*	*	*	*	*	*
	U				*	*	*	*	*	*	*	*	*			

(1) Hydraulic connections Ø 1/2"

(2) Hydraulic connections Ø 3/4"

Half-size filter kit

Model	Ver	200	201	250	300	301	350	400	401	450	500	501	550	700	701	750
DFA2	C,U	*	*	*												
DFA3	C,U				*	*	*									
DFA5	C,U							*	*	*	*	*	*			
DFA7	C													*	*	*

Protection for flange

Model	Ver	200	201	250	300	301	350	400	401	450	500	501	550	700	701	750
PPB	C	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	U	*	*	*	*	*	*	*	*	*	*	*	*			

PERFORMANCE DATA - FCYI_C AND FCYI_U (H NOZZLES CONFIGURATION) 2 PIPES

2-pipe

pipe		FCYI200C			FCYI250C			FCYI300C			FCYI350C			FCYI400C			FCYI450C		
		1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
		L	M	H	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H
Heating performance 70 °C / 60 °C (1)																			
Heating capacity	kW	1,81	3,16	3,34	2,01	3,40	3,62	3,08	4,83	5,23	3,32	5,43	5,83	3,96	5,85	6,34	4,10	6,44	6,96
Water flow rate system side	l/h	156	272	287	173	292	311	265	415	450	285	467	502	341	503	545	353	554	599
Pressure drop system side	kPa	6	13	16	7	17	19	7	14	16	7	17	19	9	17	19	5	12	13
Heating performance 45 °C / 40 °C (2)																			
Heating capacity	kW	0,90	1,57	1,66	1,00	1,69	1,80	1,53	2,40	2,60	1,65	2,70	2,90	1,97	2,91	3,15	2,04	3,20	3,46
Water flow rate system side	l/h	155	270	288	172	291	308	263	413	447	284	464	499	339	501	542	351	550	595
Pressure drop system side	kPa	6	13	16	7	17	19	7	14	16	7	17	19	9	17	19	5	12	13
Cooling performance 7 °C / 12 °C																			
Cooling capacity	kW	0,80	1,37	1,45	0,95	1,67	1,76	1,40	2,38	2,53	1,66	2,70	2,88	2,03	2,98	3,21	2,22	3,28	3,55
Sensible cooling capacity	kW	0,63	1,13	1,20	0,70	1,29	1,37	1,10	1,82	1,94	1,15	1,94	2,07	1,45	2,18	2,36	1,54	2,35	2,56
Water flow rate system side	l/h	138	236	249	163	287	303	241	409	435	285	464	495	349	512	552	382	564	610
Pressure drop system side	kPa	5	14	16	8	19	21	7	15	17	9	21	23	9	13	20	8	16	18
Fan																			
Air flow rate	m³/h	123	240	257	123	240	257	225	390	424	225	390	424	300	470	515	300	470	515
High static pressure	Pa	13	50	57	13	50	57	16	50	59	16	50	59	20	50	60	20	50	60
Sound power level (inlet + radiated)	dB(A)	37,0	57,0	59,0	37,0	57,0	59,0	36,0	50,0	53,0	36,0	50,0	53,0	43,0	53,0	55,0	43,0	53,0	55,0
Sound power level (outlet)	dB(A)	33,0	53,0	55,0	33,0	53,0	55,0	32,0	47,0	49,0	32,0	47,0	49,0	39,0	49,0	52,0	39,0	49,0	52,0
Input power	W	7	27	31	7	27	31	10	30	40	10	30	40	14	38	48	14	38	48
Diameter hydraulic fittings																			
Main heat exchanger	Ø	1/2"			1/2"			3/4"			3/4"			3/4"			3/4"		
Power supply																			
Power supply		230V~50Hz																	
		FCYI500C			FCYI550C			FCYI700C			FCYI750C								
		1	2	3	1	2	3	1	2	3	1	2	3	1	2	3			
		L	M	H	L	M	H	L	M	H	L	M	H	L	M	H			
Heating performance 70 °C / 60 °C (1)																			

		FCYI500C			FCYI550C			FCYI700C			FCYI750C		
Heating capacity	kW	5,39	7,28	7,63	5,92	8,37	8,71	5,33	8,34	8,88	6,17	9,52	10,15
Water flow rate system side	l/h	464	626	656	509	720	749	468	732	779	541	835	890
Pressure drop system side	kPa	12	22	23	11	20	21	8	17	20	5	11	12
Heating performance 45 °C / 40 °C (2)													
Heating capacity	kW	2,68	3,26	3,79	2,94	4,16	4,33	2,67	4,15	4,40	2,46	4,69	5,00
Water flow rate system side	l/h	461	623	652	506	715	745	460	720	767	418	806	860
Pressure drop system side	kPa	12	22	23	12	22	23	8	18	20	3	11	12
Cooling performance 7 °C / 12 °C													
Cooling capacity	kW	2,73	3,68	3,84	2,97	4,15	4,31	2,20	4,00	4,30	2,60	4,41	4,70
Sensible cooling capacity	kW	1,98	2,73	2,85	2,11	2,98	3,12	1,71	3,00	3,20	1,90	3,30	3,50
Water flow rate system side	l/h	469	633	660	511	714	741	378	688	739	447	760	818
Pressure drop system side	kPa	13	22	25	13	22	25	7	18	20	4	11	12
Fan													
Air flow rate	m³/h	410	600	630	410	600	630	405	730	799	405	730	799
High static pressure	Pa	23	50	55	23	50	55	15	50	60	15	50	60
Sound power level (inlet + radiated)	dB(A)	45,0	56,0	57,0	45,0	56,0	57,0	38,0	55,0	58,0	41,0	55,0	58,0
Sound power level (outlet)	dB(A)	42,0	52,0	52,0	42,0	52,0	52,0	34,0	51,0	54,0	36,0	51,0	54,0
Input power	W	18	50	60	18	50	60	21	61	78	21	61	78
Diameter hydraulic fittings													
Main heat exchanger	Ø	3/4"											
Power supply													
Power supply		230V~50Hz											

(1) Room air temperature 20 °C d.b.; Water (in/out) 70 °C/60 °C

(2) Room air temperature 20 °C d.b.; Water (in/out) 45 °C/40 °C; EUROVENT

Refer to the selection software for performance data related to the different configurations.

PERFORMANCE DATA FCYI_C AND FCYI_U (H NOZZLES CONFIGURATION) 4 PIPES

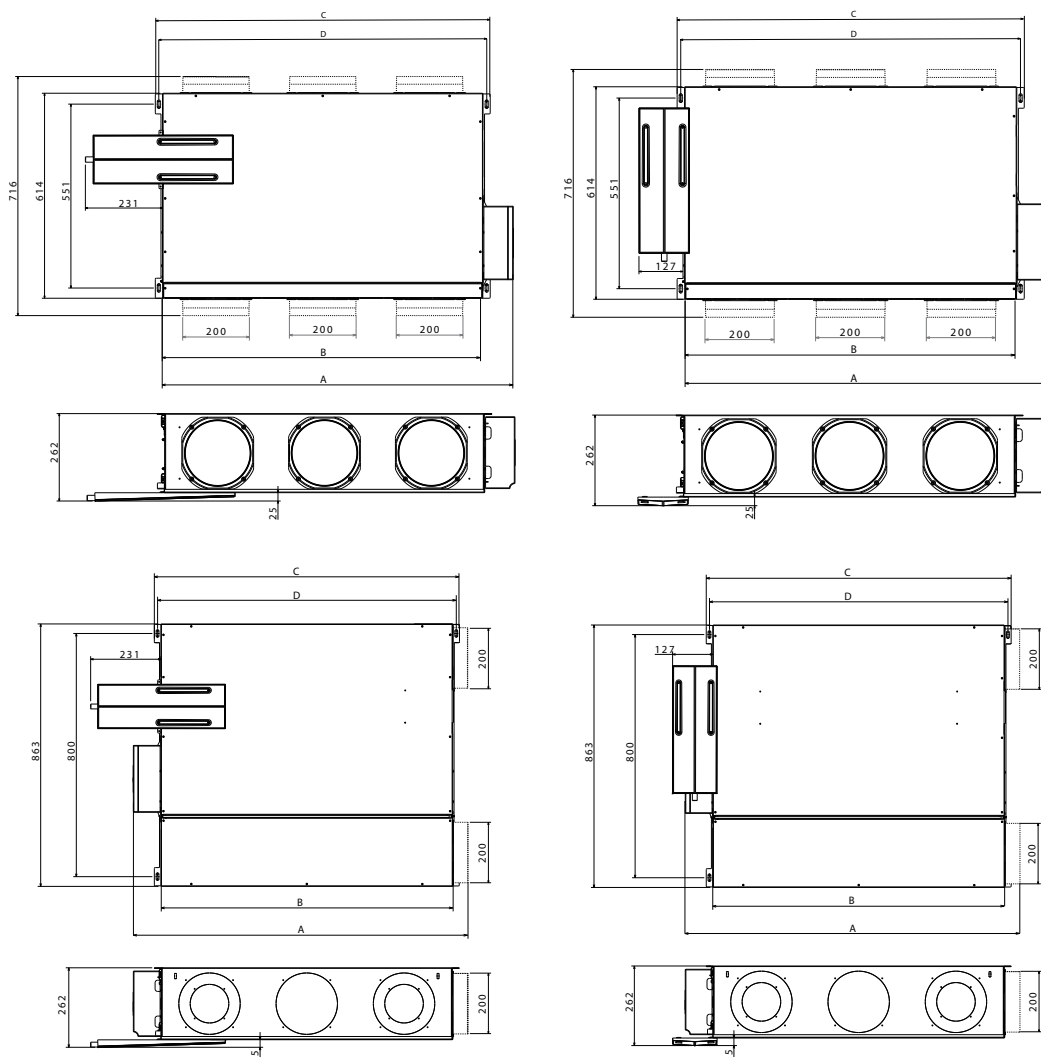
4-pipe

Pipe		FCYI201C			FCYI301C			FCYI401C			FCYI501C			FCYI701C		
		1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
		L	M	H	L	M	H	L	M	H	L	M	H	L	M	H
Heating performance 65 °C / 55 °C (1)																
Heating capacity	kW	0,94	1,42	1,49	1,60	2,34	2,47	1,99	2,69	2,85	2,62	3,59	3,45	2,99	3,70	3,92
Water flow rate system side	l/h	81	122	128	138	201	212	171	231	245	225	309	297	257	318	337
Pressure drop system side	kPa	4	9	9	6	12	13	4	7	8	6	9	9	8	12	13
Cooling performance 7 °C / 12 °C																
Cooling capacity	kW	0,80	1,37	1,45	1,40	2,38	2,53	2,03	2,98	3,21	2,73	3,68	3,84	2,20	4,00	4,30
Sensible cooling capacity	kW	0,63	1,13	1,20	1,10	1,82	1,94	1,45	2,18	2,36	1,98	2,73	2,85	1,71	3,00	3,20
Water flow rate system side	l/h	138	236	249	241	409	435	349	512	552	469	633	660	378	688	739
Pressure drop system side	kPa	5	14	16	7	15	17	9	13	20	13	22	25	7	18	20
Fan																
Air flow rate	m³/h	123	240	257	225	390	424	300	470	515	410	600	630	405	730	799
High static pressure	Pa	13	50	57	16	50	59	20	50	60	23	50	55	15	50	60
Sound power level (inlet + radiated)	dB(A)	37,0	57,0	59,0	36,0	50,0	53,0	43,0	53,0	55,0	45,0	56,0	57,0	38,0	55,0	58,0
Sound power level (outlet)	dB(A)	33,0	53,0	55,0	32,0	47,0	49,0	39,0	49,0	52,0	42,0	52,0	52,0	34,0	51,0	54,0
Input power	W	7	27	31	10	30	40	14	38	48	18	50	60	21	61	78
Diameter hydraulic fittings																
Main heat exchanger	Ø	1/2"			3/4"			3/4"			3/4"			3/4"		
Secondary heat exchanger	Ø	1/2"														
Power supply																
Power supply	230V~50Hz															

(1) Room air temperature 20 °C d.b.; Water (in/out) 65 °C/55 °C; EUROVENT

Refer to the selection software for performance data related to the different configurations.

DIMENSIONS



FCYI - C

Size		200	201	250	300	301	350	400	401	450	500	501	550	700	701	750
Dimensions and weights																
A	mm	598	598	598	829	829	829	1050	1050	1050	1050	1050	1050	1171	1171	1171
B	mm	507	507	507	735	735	735	960	960	960	960	960	960	1080	1080	1080
C	mm	550	550	550	781	781	781	1003	1003	1003	1003	1003	1003	1122	1122	1122
D	mm	529	529	529	760	760	760	982	982	982	982	982	982	1100	1100	1100
Empty weight	kg	19	20	21	23	24	26	31	32	33	31	32	33	41	43	46

FCYI - U

Size		200	201	250	300	301	350	400	401	450	500	501	550
Dimensions and weights													
A	mm	647	647	647	878	878	878	1100	1100	1100	1100	1100	1100
B	mm	508	508	508	739	739	739	960	960	960	960	960	960
C	mm	550	550	550	781	781	781	1003	1003	1003	1003	1003	1003
D	mm	529	529	529	760	760	760	982	982	982	982	982	982
Empty weight	kg	22	23	24	26	27	29	35	36	37	35	36	37

Aermec reserves the right to make any modifications deemed necessary.
All data is subject to change without notice. Aermec does not assume responsibility or liability for errors or omissions.

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FCZ P - PO

Fan coil unit for ducted installations

Cooling capacity 0,65 ÷ 7,62 kW
Heating capacity 1,45 ÷ 17,02 kW

- **Very quiet**
- **Suitable for duct-type installations too**
- **Total comfort: reduced variations in temperature and relative humidity**
- **Vertical and horizontal installation**



DESCRIPTION

fan coil can be installed in any 2/4 pipe system and operates with any heat generator even at low temperatures, and thanks to varied versions and settings, it is easy to pick the ideal solution for any need.

FEATURES

Ventilation group

Consisting of double suction centrifugal fans that are particularly silent, statically and dynamically balanced, and directly coupled with the motor shaft.

The motor is wired for single phase and has three speeds, with capacitor. The motor is fitted on sealed for life bearings and is secured on anti-vibration and self-lubricating mountings.

Extractable shrouds for easy, effective cleaning

Heat exchanger coil

With copper pipes and aluminium louvers, the standard or oversized heat exchanger and the possible secondary heat exchanger have female gas water connections on the left side and the manifolds have air vents.

The coil is not suitable for use in corrosive atmosphere or in environments where aluminium may be subject to corrosion.

Reversibility of the water connections during installation only for units with a standard or boosted main coil, or standard with BV accessory. Not reversible in all other configurations. In any case, units with the coil water connections on the right are available at the time of ordering.

Condensate drip

Provided standard in plastic and fixed to the interior structure; with external condensate discharge.

Air filter

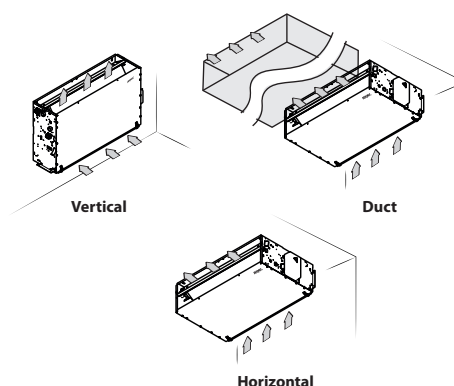
Air filter class Coarse 25% for all versions easy to pull out and clean.

In the PPC version, air purification is guaranteed by the Cold Plasma purifier.

The purifier is able to reduce pollutants, decomposing their molecules using electrical charges, causing the water molecules in the air to split into positive and negative ions. These ions neutralise the molecules in the gaseous pollutants, obtaining products normally present in clean air. The device is able to eliminate 90% of the bacteria. The result is clean, ionized air, free of foul odours.

VERSIONS

Flush-mounting and duct-type versions



FCZ_P

— Flush-mounting

FCZ_PPC

— Flush-mounting with Cold Plasma purifier

FCZ_PO

— Flush-mounting, duct-type

— With useful head.

GUIDE TO SELECTING THE POSSIBLE CONFIGURATIONS

Field	Description
1,2,3	FCZ

Field	Description
4,5,6	Size 100, 101, 102, 150, 200, 201, 202, 250, 300, 301, 302, 350, 400, 401, 402, 450, 500, 501, 502, 550, 600, 601, 602, 650, 700, 701, 702, 750, 800, 801, 802, 850, 900, 901, 950, 1000, 1001
	7 main heat exchanger
8	Secondary heat exchanger

Field	Description
9	Version
P	Flush-mounting
PO	Flush-mounting, with boosted motor
POR	Flush-mounting, with boosted motor, with water connections on right-hand side
PPC	Flush-mounting with Cold Plasma purifier
PR	Flush-mounting with water connections on right-hand side

SIZE AVAILABLE FOR VERSION

Size	100	101	102	150	200	201	202	250	300	301	302	350	400	401	402	450	500	501	502	550
Versions produced (by size)																				
Versions available (by size)	P,PR	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	PO,POR	-	-	-	-	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	PPC	*	-	-	*	*	-	*	*	-	-	*	*	-	-	*	*	-	-	*

Size	600	601	602	650	700	701	702	750	800	801	802	850	900	901	950	1000	1001
Versions produced (by size)																	
Versions available (by size)	P,PR	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	PO,POR	*	*	*	*	*	*	*	-	-	-	-	*	*	*	-	-
	PPC	*	-	-	*	*	-	*	*	-	-	*	*	-	*	*	-

ACCESSORIES

Control panels

AER503IR: Flush-mounting thermostat with backlit display, capacitive keypad and infrared receiver, for controlling both brushless fan coils and those with an asynchronous motor. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices (Cold Plasma and germicidal lamp), with radiant plate or with FCZ-D twin delivery (Dualjet). In addition, it can control systems with radiant panels or mixed (fan coil and radiant floor) systems. Being equipped with an infrared receiver, it can, in turn, be controlled by the VMF-IR remote control.

PRO503: Wall box for AER503IR and VMF-E4 thermostats.

PXAI: Thermostat on the machine for controlling the fan coils (both with asynchronous and brushless motors), complete with water and air probes to be positioned in the relative seats, and a plastic support to fix it on the side of the unit. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, purifier devices (Cold Plasma and germicidal lamp), or radiant plate.

SA5: air probe kit (L = 15 m) with probe-locking cable grommet.

SW3: Water probe (L = 2.5 m) for controlling the minimum and maximum and to allow automatic seasonal switching for electronic thermostats fitted with water side changeover.

SW5: water probe kit (L = 15m) with probe-holder connection point, fixing clip and probe-holder from heat exchanger.

TX: Wall-mounting thermostat for controlling either brushless fan coils or those with asynchronous motors for 2/4 pipe. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices, radiant plate or FCZ-D twin delivery (Dualjet).

WMT10: Electronic thermostat, white, with thermostated or continuous ventilation.

WMT16: Electronic thermostat with thermostated ventilation.

WMT16CV: Electronic thermostat with continuous ventilation.

AerSuite

The AerSuite application is used to remotely control the DI24 user interface, with VMF-E19/VMF-E19I thermostats, using Smart Devices with iOS and Android operating systems.

This is an application for Smartphones and Tablets with which the user can access and control the system operation remotely.

For more information about the use of the application and the available functions, refer to the respective documentation on the website.



VMF system

DI24: Flush-mounted interface (503 box) with 2.4" touch screen display to be combined with VMF-E19, VMF-E19I accessories. It allows you to regulate and monitor the temperature inside rooms precisely and on time; in addition to accessing and interacting with your system's operating information, parameters and alarms, it allows you to set time slots. Thanks to its Wi-Fi connection, DI24 in combination with the AerSuite APP (available for Android and iOS) can also be remotely controlled. All programming and most functions are done in a simple and intuitive way using the APP. To allow for customization of the interface so that it seamlessly integrates with the style of any home, DI24 is compatible with switch plates from major brands available on the market. For more information, please refer to our documentation. However, a switch plate with its graphite gray support, DI24CP, is also available as a separate accessory in our catalog.

VMF-E19: Thermostat to be secured to the side of the fan coil, fitted as standard with an air probe and a water probe.

VMF-E3: Wall mounted user interface, to be combined with accessories VMF-E19, VMF-E19I, with grids GLF_N/M and GLL_N, can be controlled with VMF-IR control.

VMF-E4DX: Wall-mounted user interface. Grey front panel PANTONE 425C (METAL).

VMF-E4X: Wall-mounted user interface. Light grey front panel PANTONE COOL GRAY 1C.

VMF-IR: User interface compatible with the AER503IR, VMF-E3 thermostat and with all the grids of cassettes equipped with the infrared receiver compatible with the VMF system.

VMF-SW: Water probe (L = 2.5m) used if required in place of the standard unit supplied with the VMF-E19 and VMF-E19I thermostats for mounting it upstream of the valve.

VMF-SW1: Additional water probe (L = 2.5m) to be used if required for 4-pipe systems with the VMF-E19 and VMF-E19I thermostats for maximum control in the cold range

VMHI: The VMHI panel can be used as a user interface for VMF-E19/E19I thermostats, GLFxN/M or GLLxN grids, or as an interface for the MZC system. What determines the function to be performed by the user interface is determined by its correct parametrisation and by following the electrical connections between interface and thermostat or interface and plenum.

Water valves

VCZ_X: 3-way valve kit for single-coil fan coil, RH connections, (VCZ_X4R) or LH (VCZ_X4L) for 4-pipe systems. With totally separate "heating" and "cooling" circuits. This kit consists of two 3-way insulated valves and four connections, complete with electrothermal actuators, insulating shells for the valves, and the relative hydraulic couplings. X4L version for fan coils with LH connections, and X4R for fan coils with RH connections. 230V~50Hz power supply.

VCZ: 3-way motorised valve kit for the main coil. The kit is made up of a valve with its insulating shell, actuator and relative hydraulic fittings. It can be installed on fan coils with both right and left connections. If the valve is combined with the BCZ5 or BCZ6 condensate drain pan, to ensure a better housing it is possible to remove the insulating shell.

VCF44 - 45 - for secondary heat exchanger: The 3-way motorised valve kit for the secondary coil heat only. The kit consists of a valve with its insulating shell, actuator and relevant water fittings; it is suitable to be installed on the fan coils with right and left water connections.

VCZD: 2-way motorised valve kit. The kit consists of a valve, an actuator and the relative pipe fittings. It can be installed on fan coils with both right and left connections.

VJP: Control and balancing combination valve for 2 and 4 pipe systems to install outside the unit, supplied without fittings and hydraulic components. The valve, which can guarantee a constant water flow rate in the terminal, within its operating range.

(Heating only) additional coil

BV: Hot water heat exchanger with 1 row.

RX: Armoured electric coil with safety thermostat.

PCR: Galvanised plate protection for the controls and the electrical element.

Installation accessories

AMP: Wall mounting kit

DSC: Condensate drainage device.

BC: Condensate drip.

BCZ: Condensate drip. If the valve is paired with the BCZ5 or BCZ6 condensate drip tray, the insulating shell can be removed to ensure better housing.

Ventilcassaforma: Galvanised sheet metal template. It makes it possible to obtain directly in the wall a space for housing the fan coil.

MZA: Cabinet housing with fixed fins.

MZU: Cabinet housing with adjustable fins.

GA: Intake grid with fixed louvers

GAF: Intake grid with filter and fixed louvers

GM: Flow grid with adjustable louvers.

PA: Intake plenum in galvanised sheet metal, complete with suction couplings for circular-section ducts.

PAF: Intake plenum providing recovery and delivery on the same side, for all installations where the machine needs to be positioned outside the air conditioned rooms to minimise the noise levels and facilitate maintenance.

PM: Galvanised sheet steel flow plenum, externally insulated, equipped with plastic flow fittings for ducts and circular sections.

RD: Straight delivery coupling for canalisation.

RDA: Straight suction coupling for canalisation.

RP: 90° delivery coupling.

RPA: 90° suction coupling.

Accessories for ducting

MZC: Plenum with motorised dampers.

RDA_V: Straight intake connection with rectangular flange.

RPA_V: Suction plenum with rectangular flange; both sides have a circular push-out Ø 150mm that can be removed.

RDA_C: Straight intake connection with circular flanges.

PA_V: Suction plenum with circular plastic flanges; both sides have a circular push-out Ø 150mm that can be removed.

PM_V: Internally insulated delivery plenum with circular flanges; both sides have a circular push-out Ø 150mm that can be removed.

RPM_V: Internally insulated delivery plenum with rectangular flange; both sides have a circular push-out Ø 150mm that can be removed.

RDM_V: Straight delivery coupling in galvanised sheet metal.

RDM_C: Straight discharge internally insulated, with circular flanges.

ACCESSORIES COMPATIBILITY

Control panels

Model	Ver	100	101	102	150	200	201	202	250	300	301	302	350	400	401	402	450	500	501	502	550
AERS03IR (1)	P,PR	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	PO,POR					*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	PPC	*			*	*			*	*			*	*			*	*			*
PRO503	P,PR	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	PO,POR					*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	PPC	*			*	*			*	*			*	*			*	*			*
PXAI	P,PR	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	PO,POR					*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	PPC	*			*	*			*	*			*	*			*	*			*
SAS (2)	P,PR	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	PO,POR					*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	PPC	*			*	*			*	*			*	*			*	*			*
SW3 (2)	P,PR	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	PO,POR					*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	PPC	*			*	*			*	*			*	*			*	*			*
SW5 (2)	P,PR	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	PO,POR					*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	PPC	*			*	*			*	*			*	*			*	*			*
TX (3)	P,PR	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	PO,POR					*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	PPC	*			*	*			*	*			*	*			*	*			*
WMT10 (3)	P,PR	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	PO,POR					*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	PPC	*			*	*			*	*			*	*			*	*			*
WMT16 (3)	P,PR	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	PO,POR					*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	PPC	*			*	*			*	*			*	*			*	*			*
WMT16CV (3)	P,PR	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	PO,POR					*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	PPC	*			*	*			*	*			*	*			*	*			*

(3) Wall-mounting. If the unit intake exceeds 0.7A, or several units need to be managed with a single thermostat, board SIT3 and/or SIT5 is required.

Model	Ver	600	601	602	650	700	701	702	750	800	801	802	850	900	901	950	1000	1001
DI24	P,PR	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	PO,POR	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	PPC	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
VMF-E19 (1)	P,PR	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	PO,POR	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	PPC	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
VMF-E3	P,PR	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	PO,POR	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	PPC	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
VMF-E4DX	P,PR	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	PO,POR	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	PPC	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
VMF-E4X	P,PR	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	PO,POR	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	PPC	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
VMF-IR	P,PR	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	PO,POR	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	PPC	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
VMF-SW	P,PR	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	PO,POR	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	PPC	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
VMF-SW1	P,PR	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	PO,POR	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	PPC	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
VMHI	P,PR	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	PO,POR	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	PPC	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*

(1) Also the accessory VMF-SIT3V is mandatory if the unit exceeds 0.7 Amperes.

Water valves

3 way valve kit

	100	101	102	150	200	201	202	250	300	301	302	350	400	401	402	450
Main coil	VCZ41	VCZ41	VCZ41	VCZ41	VCZ41	VCZ41	VCZ41	VCZ41	VCZ42	VCZ42	VCZ42	VCZ42	VCZ42	VCZ42	VCZ42	VCZ42
	VCZ4124	VCZ4124	VCZ4124	VCZ4124	VCZ4124	VCZ4124	VCZ4124	VCZ4124	VCZ4224	VCZ4224	VCZ4224	VCZ4224	VCZ4224	VCZ4224	VCZ4224	VCZ4224
Secondary coil	-	VCF44	VCF44	-	-	VCF44	VCF44	-	-	VCF44	VCF44	-	-	VCF44	VCF44	-
	-	VCF4424	VCF4424	-	-	VCF4424	VCF4424	-	-	VCF4424	VCF4424	-	-	VCF4424	VCF4424	-
Additional coil "BV"	VCF44	-	-	-	VCF44	-	-	-	VCF44	-	-	-	VCF44	-	-	-
	VCF4424	-	-	-	VCF4424	-	-	-	VCF4424	-	-	-	VCF4424	-	-	-
	500	501	502	550	600	601	602	650	700	701	702	750	800	801	802	850
Main coil	VCZ42	VCZ42	VCZ42	VCZ42	VCZ42	VCZ42	VCZ42	VCZ42	VCZ42	VCZ42	VCZ42	VCZ42	VCZ42	VCZ42	VCZ42	VCZ42
	VCZ4224	VCZ4224	VCZ4224	VCZ4224	VCZ4224	VCZ4224	VCZ4224	VCZ4224	VCZ4224	VCZ4224	VCZ4224	VCZ4224	VCZ4224	VCZ4224	VCZ4224	VCZ4224
Secondary coil	-	VCF44	VCF44	-	-	VCF44	VCF44	-	-	VCF44	VCF44	-	-	VCF44	VCF44	-
	-	VCF4424	VCF4424	-	-	VCF4424	VCF4424	-	-	VCF4424	VCF4424	-	-	VCF4424	VCF4424	-
Additional coil "BV"	VCF44	-	-	-	VCF44	-	-	-	VCF44	-	-	-	VCF44	-	-	-
	VCF4424	-	-	-	VCF4424	-	-	-	VCF4424	-	-	-	VCF4424	-	-	-
	900	901	950	1000	1001											
Main coil	VCZ43	VCZ43	VCZ43	VCZ43	VCZ43											
	VCZ4324	VCZ4324	VCZ4324	VCZ4324	VCZ4324											
Secondary coil	-	VCF45	-	-	VCF45											
	-	VCF4524	-	-	VCF4524											
Additional coil "BV"	VCF45	-	-	VCF45	-											
	VCF4524	-	-	VCF4524	-											

2 way valve kit

	100	101	102	150	200	201	202	250	300	301	302	350	400	401	402	450
Main coil	VCZD1	VCZD1	VCZD1	VCZD1	VCZD1	VCZD1	VCZD1	VCZD1	VCZD2	VCZD2	VCZD2	VCZD2	VCZD2	VCZD2	VCZD2	VCZD2
	VCZD124	VCZD124	VCZD124	VCZD124	VCZD124	VCZD124	VCZD124	VCZD124	VCZD224	VCZD224	VCZD224	VCZD224	VCZD224	VCZD224	VCZD224	VCZD224
Secondary coil	-	VCFD4	VCFD4	-	-	VCFD4	VCFD4	-	-	VCFD4	VCFD4	-	-	VCFD4	VCFD4	-
	-	VCFD424	VCFD424	-	-	VCFD424	VCFD424	-	-	VCFD424	VCFD424	-	-	VCFD424	VCFD424	-
Additional coil "BV"	VCFD4	-	-	-	VCFD4	-	-	-	VCFD4	-	-	-	VCFD4	-	-	-
	VCFD424	-	-	-	VCFD424	-	-	-	VCFD424	-	-	-	VCFD424	-	-	-
	500	501	502	550	600	601	602	650	700	701	702	750	800	801	802	850
Main coil	VCZD2	VCZD2	VCZD2	VCZD2	VCZD2	VCZD2	VCZD2	VCZD2	VCZD2	VCZD2	VCZD2	VCZD2	VCZD2	VCZD2	VCZD2	VCZD2
	VCZD224	VCZD224	VCZD224	VCZD224	VCZD224	VCZD224	VCZD224	VCZD224	VCZD224	VCZD224	VCZD224	VCZD224	VCZD224	VCZD224	VCZD224	VCZD224
Secondary coil	-	VCFD4	VCFD4	-	-	VCFD4	VCFD4	-	-	VCFD4	VCFD4	-	-	VCFD4	VCFD4	-
	-	VCFD424	VCFD424	-	-	VCFD424	VCFD424	-	-	VCFD424	VCFD424	-	-	VCFD424	VCFD424	-
Additional coil "BV"	VCFD4	-	-	-	VCFD4	-	-	-	VCFD4	-	-	-	VCFD4	-	-	-
	VCFD424	-	-	-	VCFD424	-	-	-	VCFD424	-	-	-	VCFD424	-	-	-
	900	901	950	1000	1001											
Main coil	VCZD3	VCZD3	VCZD3	VCZD3	VCZD3											
	VCZD324	VCZD324	VCZD324	VCZD324	VCZD324											
Secondary coil	-	VCFD4	-	-	VCFD4											
	-	VCFD424	-	-	VCFD424											
Additional coil "BV"	VCFD4	-	-	VCFD4	-											
	VCFD424	-	-	VCFD424	-											

Valve Kit for 4 pipe systems - Requires a thermostat with valve management

Model	Ver	100	101	102	150	200	201	202	250	300	301	302	350	400	401	402	450	500	501	502	550
VCZ1X4L (1)	P,PPC,PR	•			•	•			•												
	PO,POR					•			•												
VCZ1X4R (1)	P,PPC,PR	•			•	•			•												
	PO,POR					•			•												
VCZ2X4L (1)	P,PO,POR,PPC,PR									•			•	•			•	•			•
VCZ2X4R (1)	P,PO,POR,PPC,PR									•			•	•			•	•			•

Model	Ver	600	601	602	650	700	701	702	750	800	801	802	850	900	901	950	1000	1001
VCZ2X4L (1)	P,PPC,PR	•			•	•			•	•			•					
	PO,POR	•			•	•			•									
VCZ2X4R (1)	P,PPC,PR	•			•	•			•	•			•					
	PO,POR	•			•	•			•									
VCZ3X4L (1)	P,PPC,PR														•		•	•
	PO,POR														•		•	
VCZ3X4R (1)	P,PPC,PR														•		•	•
	PO,POR														•		•	

(1) The valves can be combined with the units if there is a control panel for managing them.

Combined Adjustment and Balancing Valve Kit

Model	Ver	100	101	102	150	200	201	202	250	300	301	302	350	400	401	402	450	500	501	502	550
VJP060 (1)	P,PR	•	•	•	•	•	•	•	•	•	•	•	•								
	PO,POR					•	•	•	•	•	•	•	•								
	PPC	•			•	•			•	•			•								
VJP060M (2)	P,PR	•	•	•	•	•	•	•	•	•	•	•	•								
	PO,POR					•	•	•	•	•	•	•	•								
	PPC	•			•	•			•	•			•								
VJP090 (1)	P,PO,POR,PR													•	•	•	•	•	•	•	•
	PPC													•			•	•			•
VJP090M (2)	P,PO,POR,PR													•	•	•	•	•	•	•	•
	PPC													•			•	•			•
Model	Ver	600	601	602	650	700	701	702	750	800	801	802	850	900	901	950	1000	1001			
VJP090 (1)	P,PO,POR,PR	•	•	•	•																
	PPC	•			•																
VJP090M (2)	P,PO,POR,PR	•	•	•	•																
	PPC	•			•																
VJP150 (1)	P,PR	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	PO,POR	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	PPC	•			•	•			•	•			•	•		•	•		•	•	
VJP150M (2)	P,PR	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	PO,POR	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	PPC	•			•	•			•	•			•	•		•	•		•	•	

(1) 230V~50Hz

(2) 24V

(Heating only) additional coil**Electric coil - Requires a thermostat with heater management. Not available for sizes with an oversized main coil.**

Model	Ver	100	101	102	150	200	201	202	250	300	301	302	350	400	401	402	450	500
RX17 (1)	P,PR	.																
RX22 (1)	P,PO,POR,PR					.												
RX32 (1)	P,PO,POR,PPC,PR									.								
RX42 (1)	P,PO,POR,PPC,PR													.				
RX52 (1)	P,PO,POR,PPC,PR																	.
Model	Ver	501	502	550	600	601	602	650	700	701	702	750	800	801	802	850	900	901
RX62 (1)	P,PO,POR,PPC,PR																.	
RXZ800 (1)	P,PPC,PR				.				.				.					
	PO,POR				.				.									
Model	Ver	950					1000					1001						
RX62 (1)	P,PR									.								

(1) Requires a thermostat with heater management. Not available for sizes with an oversized main coil. The PCR1 PCR2 or PCR1V appliance must also be provided depending on the unit.

Heating only additional coil

Reading only additional con.																					
Model	Ver	100	101	102	150	200	201	202	250	300	301	302	350	400	401	402	450	500	501	502	550
BV117 (1)	PPR	.																			
BV122 (1)	P,PO,POR,PR					.															
BV132 (1)	P,PO,POR,PPC,PR									.											
BV142 (1)	P,PO,POR,PPC,PR													.				.			
Model	Ver	600	601	602	650	700	701	702	750	800	801	802	850	900	901	950	1000	1001			
BV162 (1)	PPR													.			.				
	PO,POR,PPC													.							
BVZ800 (1)	P,PPC,PR	.				.				.											
	PO,POR	.				.															

(1) Not available for sizes with oversized main coil.

Galvanised plate protection for the controls and the electrical element.

Model	Ver	100	101	102	150	200	201	202	250	300	301	302	350	400	401	402	450	500
PCR1	P,PO,POR,PR	.				.				.				.				.
Model	Ver	501	502	550	600	601	602	650	700	701	702	750	800	801	802	850	900	901
PCR1	P,PO,POR,PR				.				.				.					
PCR2	P,PO,POR,PR																.	
Model	Ver	950					1000					1001						
PCR2	P,PO,POR,PR									.								

Installation accessories**Wall mounting kit**

Main mounting kit																					
Model	Ver	100	101	102	150	200	201	202	250	300	301	302	350	400	401	402	450	500	501	502	550
AMP20	P,PR	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	PO,POR					.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	PPC	.				.	.			.	.			.	.			.	.		.
Model	Ver	600	601	602	650	700	701	702	750	800	801	802	850	900	901	950	1000	1001			
AMPZ	P,PR	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.			
	PO,POR	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.			
	PPC	.			.	.			.	.			.	.		.	.	.			

Condensate drip

Condensate drip																					
Model	Ver	100	101	102	150	200	201	202	250	300	301	302	350	400	401	402	450	500	501	502	550
BCZ4 (1)	P,PR	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	PO,POR					.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	PPC	.			.	.			.	.			.	.			.	.			.
BCZ5 (2)	P		.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	PO,POR					.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	PPC	.			.	.			.	.			.	.			.	.			.
	PR	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Model	Ver	600	601	602	650	700	701	702	750	800	801	802	850	900	901	950	1000	1001			
BCZ4 (1)	P,PR	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.			
	PO,POR	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.			
	PPC	.			.	.			.	.			.	.		.	.	.			
BCZ5 (2)	P,PR	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.			
	PO,POR	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.			
	PPC	.			.	.			.	.			.	.		.	.	.			
BCZ6 (2)	P,PR													.	.	.	.	.	.	.	
	PO,POR													.	.	.	.	.	.	.	
	PPC													.	.	.	.	.	.	.	

(1) For vertical installation.

(2) For horizontal installation.

Model	Ver	100	101	102	150	200	201	202	250	300	301	302	350	400	401	402	450	500	501	502	550
BC8 (1)	P,PR	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	PO,POR					.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	PPC	.			.	.			.	.			.	.			.	.			.
Model	Ver	600	601	602	650	700	701	702	750	800	801	802	850	900	901	950	1000	1001			
BC8 (1)	P,PR	.	.	.	.	.	.	.	.	.	.	.	.	.							
	PO,POR	.	.	.	.	.	.	.	.												
	PPC	.			.	.			.	.				.							
BC9 (1)	P,PR													.	.	.	.	.	.	.	.
	PO,POR													.	.	.	.	.	.	.	.
	PPC													.	.	.	.	.	.	.	.

(1) For horizontal installation.

Condensate recirculation device

Model	Ver	100	101	102	150	200	201	202	250	300	301	302	350	400	401	402	450	500	501	502	550
DSCZ4 (1)	P,PR	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	PO,POR					.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	PPC	.			.	.			.	.			.	.			.	.			.
Model	Ver	600	601	602	650	700	701	702	750	800	801	802	850	900	901	950	1000	1001			
DSCZ4 (1)	P,PR	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	PO,POR	.	.	.	.	.	.	.	.					.	.	.					
	PPC	.			.	.			.	.			.	.		.	.	.	.	.	.

(1) DSCZ4 due to space problems inside the unit, the VCZ1-2-3-4 X4L/R valves cannot be mounted together with the amp/AMPZ accessories, with all the condensate collection trays. With the VMF-E19/E19I thermostats, please contact the head office.

Ventilcassaforma

Model	Ver	100	101	102	150	200	201	202	250	300	301	302	350	400	401	402	450	500	501	502	550
CHF17	P,PR	.	.	.	.																
	PPC	.			.																
CHF22	P,PO,POR,PR					.	.	.	.												
	PPC					.			.												
CHF32	P,PO,POR,PR									.	.	.	.								
	PPC									.			.								
CHF42	P,PO,POR,PR													.	.	.	.	.	.	.	.
	PPC													.		.	.	.	.	.	.
Model	Ver	600	601	602	650	700	701	702	750	800	801	802	850	900	901	950	1000	1001			
CHF62	P,PR	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	PO,POR	.	.	.	.	.	.	.	.					.	.	.					
	PPC	.			.	.			.	.			.	.		.	.	.	.	.	.

Cabinet housing with fixed fins.

Model	Ver	100	101	102	150	200	201	202	250	300	301	302	350	400	401	402	450	500	501	502	550
MZA100	P,PPC,PR	.	.	.	.																
MZA200	P,PPC,PR					.	.	.	.												
MZA300	P,PPC,PR									.	.	.	.								
MZA500	P,PPC,PR													.	.	.	.	.	.	.	.
Model	Ver	600	601	602	650	700	701	702	750	800	801	802	850	900	901	950	1000	1001			
MZA800	P,PPC,PR	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
MZA900	P,PPC,PR													.	.	.	.	.	.	.	.

Cabinet housing with adjustable fins.

Model	Ver	100	101	102	150	200	201	202	250	300	301	302	350	400	401	402	450	500	501	502	550
MZU100	P,PPC,PR	.	.	.	.																
MZU200	P,PPC,PR					.	.	.	.												
MZU300	P,PPC,PR									.	.	.	.								
MZU500	P,PPC,PR													.	.	.	.	.	.	.	.
Model	Ver	600	601	602	650	700	701	702	750	800	801	802	850	900	901	950	1000	1001			
MZU800	P,PPC,PR	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
MZU900	P,PPC,PR													.	.	.	.	.	.	.	.

Wall mounting and duct type installation accessories

Lower intake grille

Model	Ver	100	101	102	150	200	201	202	250	300	301	302	350	400	401	402	450	500	501	502	550
GA17	P,PR	.	.	.	.																
	PPC	.			.																
GA22	P,PO,POR,PR					.	.	.	.												
	PPC					.			.												
GA32	P,PO,POR,PR									.	.	.	.								
	PPC									.			.								
GA42	P,PO,POR,PR													.	.	.	.	.	.	.	.
	PPC													.		.	.	.	.	.	.

Model	Ver	600	601	602	650	700	701	702	750	800	801	802	850	900	901	950	1000	1001
GA62	P,PR	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	PO,POR	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	PPC	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

Intake grilles with fixed louvers and filter

Model	Ver	100	101	102	150	200	201	202	250	300	301	302	350	400	401	402	450	500	501	502	550
GAF17	P,PR	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	PPC	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
GAF22	P,PO,POR,PR	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	PPC	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
GAF32	P,PO,POR,PR	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	PPC	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
GAF42	P,PO,POR,PR	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	PPC	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

Model	Ver	600	601	602	650	700	701	702	750	800	801	802	850	900	901	950	1000	1001
GAF62	P,PR	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	PO,POR	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	PPC	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

Delivery grilles with adjustable louvers

Model	Ver	100	101	102	150	200	201	202	250	300	301	302	350	400	401	402	450	500	501	502	550
GM17	P,PR	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	PPC	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
GM22	P,PO,POR,PR	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	PPC	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
GM32	P,PO,POR,PR	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	PPC	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
GM42	P,PO,POR,PR	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	PPC	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

Model	Ver	600	601	602	650	700	701	702	750	800	801	802	850	900	901	950	1000	1001
GM62	P,PR	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	PO,POR	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	PPC	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

Intake plenum in sheet metal complete with connectors for circular channels

Model	Ver	100	101	102	150	200	201	202	250	300	301	302	350	400	401	402	450	500	501	502	550
PA17	P,PR	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	PPC	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
PA22	P,PO,POR,PR	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	PPC	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
PA32	P,PO,POR,PR	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	PPC	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
PA42	P,PO,POR,PR	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	PPC	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

Model	Ver	600	601	602	650	700	701	702	750	800	801	802	850	900	901	950	1000	1001
PA62	P,PR	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	PO,POR	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	PPC	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

Intake plenum providing recovery and delivery on the same side

Model	Ver	100	101	102	150	200	201	202	250	300	301	302	350	400	401	402	450	500	501	502	550
PA17F	P,PR	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	PPC	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
PA22F	P,PO,POR,PR	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	PPC	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
PA32F	P,PO,POR,PR	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	PPC	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
PA42F	P,PO,POR,PR	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	PPC	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

Model	Ver	600	601	602	650	700	701	702	750	800	801	802	850	900	901	950	1000	1001
PA62F	P,PR	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	PO,POR	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	PPC	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

Delivery plenum with circular flanges.

Model	Ver	100	101	102	150	200	201	202	250	300	301	302	350	400	401	402	450	500	501	502	550
PM17	P,PR	.	.	.	.																
	PPC	.			.																
PM22	P,PO,POR,PR					.	.	.	.												
	PPC					.			.												
PM32	P,PO,POR,PR									.	.	.	.								
	PPC									.			.								
PM42	P,PO,POR,PR													.	.	.	.	.	.	.	.
	PPC													.			.	.			.
Model	Ver	600	601	602	650	700	701	702	750	800	801	802	850	900	901	950	1000	1001			
PM62	P,PR	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	PO,POR	.	.	.	.	.	.	.	.					.	.	.					
	PPC	.			.	.			.	.			.	.		.	.				

Straight delivery coupling

Model	Ver	100	101	102	150	200	201	202	250	300	301	302	350	400	401	402	450	500	501	502	550
RD17	P,PR	.	.	.	.																
	PPC	.			.																
RD22	P,PO,POR,PR					.	.	.	.												
	PPC					.			.												
RD32	P,PO,POR,PR									.	.	.	.								
	PPC									.			.								
RD42	P,PO,POR,PR													.	.	.	.	.	.	.	.
	PPC													.			.	.			.
Model	Ver	600	601	602	650	700	701	702	750	800	801	802	850	900	901	950	1000	1001			
RD62	P,PR	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	PO,POR	.	.	.	.	.	.	.	.					.	.	.					
	PPC	.			.	.			.	.			.	.		.	.				

Straight suction coupling

Model	Ver	100	101	102	150	200	201	202	250	300	301	302	350	400	401	402	450	500	501	502	550
RDA22	P,PO,POR,PR					.	.	.	.												
	PPC					.			.												
RDA32	P,PO,POR,PR									.	.	.	.								
	PPC									.			.								
RDA42	P,PO,POR,PR													.	.	.	.	.	.	.	.
	PPC													.			.	.			.
Model	Ver	600	601	602	650	700	701	702	750	800	801	802	850	900	901	950	1000	1001			
RDA62	P,PR	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	PO,POR	.	.	.	.	.	.	.	.					.	.	.					
	PPC	.			.	.			.	.			.	.		.	.				

90° delivery coupling.

Model	Ver	100	101	102	150	200	201	202	250	300	301	302	350	400	401	402	450	500	501	502	550
RP17	P,PR	.	.	.	.																
	PPC	.			.																
RP22	P,PO,POR,PR					.	.	.	.												
	PPC					.			.												
RP32	P,PO,POR,PR									.	.	.	.								
	PPC									.			.								
RP42	P,PO,POR,PR													.	.	.	.	.	.	.	.
	PPC													.			.	.			.
Model	Ver	600	601	602	650	700	701	702	750	800	801	802	850	900	901	950	1000	1001			
RP62	P,PR	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	PO,POR	.	.	.	.	.	.	.	.					.	.	.					
	PPC	.			.	.			.	.			.	.		.	.				

90° suction coupling.

Model	Ver	100	101	102	150	200	201	202	250	300	301	302	350	400	401	402	450	500	501	502	550
RPA22	P,PO,POR,PR					.	.	.	.												
	PPC					.			.												
RPA32	P,PO,POR,PR									.	.	.	.								
	PPC									.			.								
RPA42	P,PO,POR,PR													.	.	.	.	.	.	.	.
	PPC													.			.	.			.
Model	Ver	600	601	602	650	700	701	702	750	800	801	802	850	900	901	950	1000	1001			
RPA62	P,PR	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
	PO,POR	.	.	.	.	.	.	.	.					.	.	.					
	PPC	.			.	.			.	.			.	.		.	.				

Accessories for ducting

Plenum with motorised dampers.

Model	Ver	100	101	102	150	200	201	202	250	300	301	302	350	400	401	402	450	500	501	502	550
MZC220	PQ,POR					*	*	*	*												
MZC320	PQ,POR									*	*	*	*								
MZC530	PQ,POR													*	*	*	*	*	*	*	*
Model	Ver	600	601	602	650	700	701	702	750	800	801	802	850	900	901	950	1000	1001			
MZC830	PQ,POR	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*			

Straight intake connection with rectangular flange.

Model	Ver	100	101	102	150	200	201	202	250	300	301	302	350	400	401	402	450	500	501	502	550
RDA000V	PQ,POR					*	*	*	*												
RDA100V	PQ,POR									*	*	*	*								
RDA200V	PQ,POR													*	*	*	*	*	*	*	*
Model	Ver	600	601	602	650	700	701	702	750	800	801	802	850	900	901	950	1000	1001			
RDA300V	PQ,POR	*	*	*	*	*	*	*	*					*	*	*					

Intake plenum with rectangular flange.

Model	Ver	100	101	102	150	200	201	202	250	300	301	302	350	400	401	402	450	500	501	502	550
RPA000V	PQ,POR					*	*	*	*												
RPA100V	PQ,POR									*	*	*	*								
RPA200V	PQ,POR													*	*	*	*	*	*	*	*
Model	Ver	600	601	602	650	700	701	702	750	800	801	802	850	900	901	950	1000	1001			
RPA300V	PQ,POR	*	*	*	*	*	*	*	*					*	*	*					

Suction plenum with plastic circular flanges.

Model	Ver	100	101	102	150	200	201	202	250	300	301	302	350	400	401	402	450	500	501	502	550
PA000V	PQ,POR					*	*	*	*												
PA100V	PQ,POR									*	*	*	*								
PA200V	PQ,POR													*	*	*	*	*	*	*	*
Model	Ver	600	601	602	650	700	701	702	750	800	801	802	850	900	901	950	1000	1001			
PA300V	PQ,POR	*	*	*	*	*	*	*	*					*	*	*					

Internally insulated delivery plenum with circular flanges.

Model	Ver	100	101	102	150	200	201	202	250	300	301	302	350	400	401	402	450	500	501	502	550
PM000V	PQ,POR					*	*	*	*												
PM100V	PQ,POR									*	*	*	*								
PM200V	PQ,POR													*	*	*	*	*	*	*	*
Model	Ver	600	601	602	650	700	701	702	750	800	801	802	850	900	901	950	1000	1001			
PM300V	PQ,POR	*	*	*	*	*	*	*	*					*	*	*					

Internally insulated delivery plenum with rectangular flange.

Model	Ver	100	101	102	150	200	201	202	250	300	301	302	350	400	401	402	450	500	501	502	550
RPM000V	PQ,POR					*	*	*	*												
RPM100V	PQ,POR									*	*	*	*								
RPM200V	PQ,POR													*	*	*	*	*	*	*	*
Model	Ver	600	601	602	650	700	701	702	750	800	801	802	850	900	901	950	1000	1001			
RPM300V	PQ,POR	*	*	*	*	*	*	*	*					*	*	*					

Straight delivery coupling in galvanised sheet metal.

Model	Ver	100	101	102	150	200	201	202	250	300	301	302	350	400	401	402	450	500	501	502	550
RDM000V	PQ,POR					*	*	*	*												
RDM100V	PQ,POR									*	*	*	*								
RDM200V	PQ,POR													*	*	*	*	*	*	*	*
Model	Ver	600	601	602	650	700	701	702	750	800	801	802	850	900	901	950	1000	1001			
RDM300V	PQ,POR	*	*	*	*	*	*	*	*					*	*	*					

Straight discharge internally insulated, with circular flanges.

Model	Ver	100	101	102	150	200	201	202	250	300	301	302	350	400	401	402	450	500	501	502	550
RDMC000V	PQ,POR					*	*	*	*												
RDMC100V	PQ,POR									*	*	*	*								
RDMC200V	PQ,POR													*	*	*	*	*	*	*	*
Model	Ver	600	601	602	650	700	701	702	750	800	801	802	850	900	901	950	1000	1001			
RDMC300V	PQ,POR	*	*	*	*	*	*	*	*					*	*	*					

PERFORMANCE DATA FOR UNITS WITHOUT HEAD (EUROVENT CERTIFICATE FC-H)

2-pipe

	FCZ100P			FCZ150P			FCZ200P			FCZ250P			FCZ300P			FCZ350P			FCZ400P			FCZ450P			FCZ500P			FCZ550P		
	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H

Heating performance 70 °C / 60 °C (1)

Heating capacity	kW	1,45	2,00	2,40	1,55	2,19	2,65	2,02	2,95	3,70	2,20	3,18	4,05	3,47	4,46	5,50	3,77	4,92	6,15	4,32	5,74	7,15	4,57	6,29	7,82	5,27	7,31	8,50	5,82	8,34	9,75
Water flow rate system side	l/h	125	172	206	136	192	232	177	258	324	193	278	355	304	391	482	330	431	539	379	503	627	400	551	685	462	641	745	510	731	855
Pressure drop system side	kPa	4	7	9	5	9	12	6	12	18	7	15	23	7	12	18	8	14	20	9	16	24	6	11	16	12	21	28	10	20	26

Heating performance 45 °C / 40 °C (2)

Heating capacity	kW	0,72	0,99	1,19	0,77	1,09	1,31	1,00	1,46	1,84	1,09	1,58	2,01	1,72	2,21	2,73	1,87	2,44	3,06	2,14	2,85	3,55	2,27	3,12	3,88	2,62	3,63	4,22	2,89	4,14	4,85
Water flow rate system side	l/h	126	173	207	134	189	229	174	254	319	190	274	350	299	385	475	325	425	531	373	495	617	394	543	675	455	631	734	502	720	842
Pressure drop system side	kPa	4	7	10	5	9	12	6	12	18	8	15	22	8	12	18	8	14	20	10	16	24	6	11	16	12	21	28	10	20	26

Fan

Type	type	Centrifugal			Centrifugal			Centrifugal			Centrifugal			Centrifugal			Centrifugal			Centrifugal			Centrifugal			Centrifugal			Centrifugal		
Fan motor	type	Asynchronous			Asynchronous			Asynchronous			Asynchronous			Asynchronous			Asynchronous			Asynchronous			Asynchronous			Asynchronous			Asynchronous		
Number	no.	1			1			1			1			2			2			2			2			2			2		
Air flow rate	m³/h	110	160	200	110	160	200	140	220	290	140	220	290	260	350	450	260	350	450	330	460	600	330	460	600	400	600	720	400	600	720
Input power	W	19	29	35	19	29	35	25	29	33	25	29	33	25	33	44	25	33	44	30	43	57	30	43	57	38	52	76	38	52	76
Electrical wiring		V1	V2	V3	V1	V2	V3	V1	V2	V3	V1	V2	V3	V1	V2	V3	V1	V2	V3	V1	V2	V3	V1	V2	V3	V1	V2	V3	V1	V2	V3

Fan coil sound data (3)

Sound power level	dB(A)	31,0	38,0	45,0	31,0	38,0	45,0	35,0	46,0	51,0	35,0	46,0	51,0	34,0	41,0	48,0	34,0	41,0	48,0	37,0	44,0	51,0	37,0	44,0	51,0	42,0	51,0	56,0	42,0	51,0	56,0
Sound pressure level	dB(A)	23,0	30,0	37,0	23,0	30,0	37,0	27,0	38,0	43,0	27,0	38,0	43,0	26,0	33,0	40,0	26,0	33,0	40,0	29,0	36,0	43,0	29,0	36,0	43,0	34,0	43,0	48,0	34,0	43,0	48,0

Finned pack heat exchanger

Water content main heat exchanger	l	0,4			0,5			0,5			0,7			0,8			1,0			1,0			1,4			1,0			1,4		
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Diameter hydraulic fittings

Main heat exchanger	Ø	1/2"			1/2"			1/2"			1/2"			3/4"			3/4"			3/4"			3/4"			3/4"			3/4"		
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	FCZ600P			FCZ650P			FCZ700P			FCZ750P			FCZ800P			FCZ850P			FCZ900P			FCZ950P			FCZ1000P		
	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H

Heating performance 70 °C / 60 °C (1)

Heating capacity	kW	6,50	8,10	10,00	7,19	9,15	11,50	8,10	9,80	11,00	9,10	11,30	12,50	9,80	10,80	12,00	11,30	12,35	14,00	10,77	13,35	15,14	11,20	14,42	17,10	12,53	15,24	17,02
Water flow rate system side	l/h	570	710	877	631	802	1008	710	860	964	798	991	1096	859	947	1052	991	1083	1227	945	1171	1328	982	1264	1500	1101	1337	1493
Pressure drop system side	kPa	12	18	26	14	21	31	17	24	29	10	15	18	22	27	32	17	20	25	12	17	22	16	24	33	22	32	38

Heating performance 45 °C / 40 °C (2)

Heating capacity	kW	3,32	4,03	4,97	3,57	4,55	5,72	4,03	4,87	5,47	4,52	5,62	6,21	4,87	5,37	5,97	5,62	6,14	6,96	5,35	6,64	7,53	5,57	7,17	8,50	6,24	7,58	8,46
Water flow rate system side	l/h	561	699	863	621	790	993	699	846	950	786	975	1079	846	932	1036	975	1066	1209	930	1152	1307	967	1245	1476	1084	1316	1469
Pressure drop system side	kPa	12	18	26	14	20	31	16	24	29	10	14	18	22	26	32	17	20	25	12	17	22	15	24	33	22	31	38

Fan

Type	type	Centrifugal			Centrifugal			Centrifugal			Centrifugal			Centrifugal			Centrifugal			Centrifugal			Centrifugal					
Fan motor	type	Asynchronous			Asynchronous			Asynchronous			Asynchronous			Asynchronous			Asynchronous			Asynchronous			Asynchronous					
Number	no.	3			3			3			3			3			3			3			3					
Air flow rate	m³/h	520	720	920	520	720	920	700	930	1140	700	930	1140	900	1120	1300	900	1120	1300	700	930	1140	700	930	1140	900	1120	1300
Input power	W	38	60	91	38	60	91	59	80	106	59	80	106	80	100	131	80	100	131	59	80	106	59	80	106	80	100	131
Electrical wiring		V1	V2	V3	V1	V2	V3	V1	V2	V3	V1	V2	V3	V1	V2	V3	V1	V2	V3	V1	V2	V3	V1	V2	V3	V1	V2	V3

Fan coil sound data (3)

Sound power level	dB(A)	42,0	51,0	57,0	42,0	51,0	57,0	50,0	57,0	62,0	50,0	57,0	62,0	56,0	61,0	66,0	56,0	61,0	66,0	51,0	57,0	62,0	51,0	57,0	62,0	56,0	61,0	66,0
Sound pressure level	dB(A)	34,0	43,0	49,0	34,0	43,0	49,0	42,0	49,0	54,0	42,0	49,0	54,0	48,0	53,0	58,0	48,0	53,0	58,0	43,0	49,0	54,0	43,0	49,0	54,0	48,0	53,0	58,0

Finned pack heat exchanger

Water content main heat exchanger	l	1,2			1,6			1,2			1,6			1,2			1,6			1,8			2,3			1,8		
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Diameter hydraulic fittings

Main heat exchanger	Ø	3/4"			3/4"			3/4"			3/4"			3/4"			3/4"			3/4"			3/4"			3/4"			3/4"		
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(1) Room air temperature 20 °C d.b.; Water (in/out) 70 °C/60 °C

(2) Room air temperature 20 °C d.b.; Water (in/out) 45 °C/40 °C; EUROVENT

(3) Aermec determines the sound power value on the basis of measurements taken in accordance with standard UNI EN 16583:15, respecting the Eurovent certification.

4-pipe

	FCZ201P			FCZ301P			FCZ401P			FCZ501P			FCZ601P			FCZ701P			FCZ901P		
	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H

Heating performance 65 °C/55 °C (1)

Heating capacity	kW	1,02	1,35	1,60	1,80	2,18	2,56	2,21	2,65	3,12	2,59	3,34	3,73	2,96	3,67	4,36	3,66	4,29	4,94	4,73	5,63	5,72
Water flow rate system side	l/h	89	118	140	158	191	224	186	232	273	227	293	327	259	321	381	320	375	437	414	492	501
Pressure drop system side	kPa	4	8	10	16	23	30	4	6	8	6	8	10	8	12	16	11	14	18	8	12	12

Cooling performance 7 °C/12 °C

Cooling capacity	kW	0,89	1,28	1,60	1,68	2,17	2,65	2,20	2,92	3,60	2,68	3,69	4,25	3,22	3,90	4,65	3,92	4,89	5,50	4,29	5,00	6,91
Sensible cooling capacity	kW	0,71	1,05	1,33	1,26	1,65	2,04	1,59	2,14	2,67	1,94	2,73	3,18	2,56	3,17	3,92	2,99	3,76	4,30	2,97	3,78	5,68
Water flow rate system side	l/h	153	221	275	288	374	456	379	503	619	460	634	731	554	671	800	675	841	946	738	860	1189
Pressure drop system side	kPa	6	12	18	8	13	18	10	16	24	13	22	29	14	19	26	16	24	30	10	12	22

Fan

Type	type	Centrifugal			Centrifugal			Centrifugal			Centrifugal			Centrifugal			Centrifugal			Centrifugal		
Fan motor	type	Asynchronous			Asynchronous			Asynchronous			Asynchronous			Asynchronous			Asynchronous			Asynchronous		
Number	no.	1			2			2			2			3			3			3		
Air flow rate	m³/h	140	220	-	260	350	-	330	460	-	400	600	-	520	720	-	700	930	-	700	930	-
Input power	W	25	29	33	25	33	44	30	43	57	38	52	76	38	60	91	59	80	106	59	80	106
Electrical wiring		V1	V2	V3	V1	V2	V3	V1	V2	V3	V1	V2	V3	V1	V2	V3	V1	V2	V3	V1	V2	V3

Fan coil sound data (2)

Sound power level	dB(A)	35,0	46,0	51,0	34,0	41,0	48,0	37,0	44,0	51,0	42,0	51,0	56,0	42,0	51,0	57,0	50,0	57,0	62,0	51,0	57,0	62,0
Sound pressure level	dB(A)	27,0	38,0	43,0	26,0	33,0	40,0	29,0	36,0	43,0	34,0	43,0	48,0	34,0	43,0	49,0	42,0	49,0	54,0	43,0	49,0	54,0

Finned pack heat exchanger

Water content main heat exchanger	l	0,5			0,8			1,0			1,0			1,2			1,2			1,8		
Water content secondary heat exchanger	l	0,2			0,3			0,3			0,3			0,4			0,4			0,7		

(1) Room air temperature 20°C d.b.; Water (in/out) 65 °C/55 °C; EUROVENT

(2) Aermec determines the sound power value on the basis of measurements taken in accordance with standard UNI EN 16583:15, respecting the Eurovent certification.

PERFORMANCE DATA FOR UNITS WITH HEAD (EUROVENT CERTIFICATE FCP-H)

2-pipe

	FCZ200PO			FCZ250PO			FCZ300PO			FCZ350PO			FCZ400PO			FCZ450PO			FCZ500PO		
	2	4	6	2	4	6	1	4	6	1	4	6	1	3	6	1	3	6	1	5	6
	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H

Heating performance 70 °C / 60 °C (1)

Heating capacity	kW	2,11	3,00	3,32	2,29	3,24	3,60	3,50	5,03	5,45	3,80	5,59	6,10	4,49	6,02	6,74	4,79	6,62	7,40	5,27	7,22	7,59
Water flow rate system side	l/h	182	258	285	197	279	310	301	433	469	327	481	524	386	517	580	412	569	637	453	621	652
Pressure drop system side	kPa	7	12	15	9	16	19	8	15	18	9	18	21	11	18	22	7	12	15	12	21	23

Heating performance 45 °C / 40 °C (2)

Heating capacity	kW	1,05	1,49	1,65	1,14	1,61	1,79	1,74	2,50	2,71	1,89	2,78	3,03	2,23	2,99	3,35	2,38	3,29	3,68	2,62	3,59	3,77
Water flow rate system side	l/h	160	224	248	196	277	308	299	430	466	325	478	521	383	514	576	409	566	633	451	617	648
Pressure drop system side	kPa	7	12	15	9	16	19	8	15	18	9	18	21	11	18	22	7	12	15	12	21	23

Cooling performance 7 °C / 12 °C

Cooling capacity	kW	0,93	1,30	1,44	1,11	1,59	1,74	1,70	2,40	2,63	1,91	2,77	3,00	2,29	3,06	3,41	2,51	3,37	3,79	2,68	3,65	3,82
Sensible cooling capacity	kW	0,74	1,14	1,18	0,83	1,23	1,36	1,27	1,86	2,03	1,34	1,99	2,16	1,66	2,24	2,52	1,76	2,42	2,73	1,94	2,70	2,83
Water flow rate system side	l/h	160	224	248	191	273	299	292	413	452	328	476	516	394	526	586	432	580	652	461	628	657
Pressure drop system side	kPa	8	13	15	9	18	21	8	16	18	11	22	25	11	18	22	11	16	20	13	22	24

Fan

Type	type	Centrifugal			Centrifugal			Centrifugal			Centrifugal			Centrifugal			Centrifugal			Centrifugal		
Fan motor	type	Asynchronous			Asynchronous			Asynchronous			Asynchronous			Asynchronous			Asynchronous			Asynchronous		
Number	no.	1			1			2			2			2			2			2		
Air flow rate	m³/h	148	226	254	148	226	254	263	404	446	263	404	446	346	487	559	346	487	559	400	592	627
High static pressure	Pa	21	50	63	21	50	63	21	50	61	21	50	61	25	-	66	25	-	66	22	50	56
Input power	W	28	41	74	28	41	74	38	55	78	38	55	78	53	63	102	53	63	102	49	80	627
Electrical wiring		V2	V4	V6	V2	V4	V6	V1	V4	V6	V1	V4	V6	V1	V3	V6	V1	V3	V6	V1	V5	V6

Duct type fan coil sound data (3)

Sound power level (inlet + radiated)	dB(A)	41,0	56,0	59,0	41,0	56,0	59,0	39,0	51,0	54,0	39,0	51,0	54,0	44,0	54,0	55,0	44,0	54,0	55,0	45,0	55,0	57,0
Sound power level (outlet)	dB(A)	37,0	52,0	55,0	37,0	52,0	55,0	35,0	47,0	49,0	35,0	47,0	49,0	40,0	50,0	52,0	40,0	50,0	52,0	41,0	51,0	53,0

Finned pack heat exchanger

Water content main heat exchanger	I	0,5			0,7			0,8			1,0			1,0			1,4			1,0		
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Diameter hydraulic fittings

Main heat exchanger	Ø	1/2"			1/2"			3/4"			3/4"			3/4"			3/4"			3/4"		
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	FCZ550PO			FCZ600PO			FCZ650PO			FCZ700PO			FCZ750PO			FCZ900PO			FCZ950PO		
	1	5	6	1	4	7	1	4	7	2	5	7	2	5	7	2	5	7	2	5	7
	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H

Heating performance 70 °C / 60 °C (1)

Heating capacity	kW	5,81	8,25	8,67	6,86	8,55	10,00	7,63	9,72	11,51	8,77	10,10	10,52	10,02	11,65	12,09	11,81	13,80	14,45	12,43	15,07	16,00
Water flow rate system side	l/h	500	709	746	590	735	860	656	836	990	754	868	905	862	1002	1040	1016	1187	1242	1069	1296	1375
Pressure drop system side	kPa	10	19	21	12	20	26	15	23	31	19	25	27	12	15	16	14	18	20	19	26	29

Heating performance 45 °C / 40 °C (2)

Heating capacity	kW	2,89	4,10	4,31	3,41	4,25	4,97	3,79	4,83	5,72	4,36	5,02	5,23	4,98	5,79	6,01	5,87	6,86	7,18	6,18	7,49	7,95
Water flow rate system side	l/h	497	705	741	586	731	855	652	831	984	750	863	899	856	996	1034	1009	1180	1235	1063	1288	1367
Pressure drop system side	kPa	10	19	21	13	20	26	15	23	31	19	25	27	12	15	16	14	18	20	19	26	29

Cooling performance 7 °C / 12 °C

Cooling capacity	kW	2,91	4,08	4,28	3,37	4,08	4,65	4,15	5,02	5,67	4,24	4,97	5,18	4,69	5,53	5,80	4,38	5,33	5,95	6,35	7,62	8,07
Sensible cooling capacity	kW	2,07	2,94	3,09	2,70	3,34	3,92	2,93	3,60	4,12	3,24	3,83	4,02	3,53	4,20	4,41	3,11	4,11	4,73	4,20	5,08	5,40
Water flow rate system side	l/h	500	702	736	580	702	800	715	863	975	731	855	892	807	951	997	753	917	1023	1092	1310	1388
Pressure drop system side	kPa	12	21	23	15	21	26	16	23	28	20	26	28	12	16	17	10	14	17	18	24	27

Fan

Type	type	Centrifugal			Centrifugal			Centrifugal			Centrifugal			Centrifugal			Centrifugal			Centrifugal		
Fan motor	type	Asynchronous			Asynchronous			Asynchronous			Asynchronous			Asynchronous			Asynchronous			Asynchronous		
Number	no.	2			3			3			3			3			3			3		
Air flow rate	m³/h	400	592	627	567	770	920	567	770	920	785	978	1050	785	978	1050	785	978	1050	785	978	1050
High static pressure	Pa	22	50	56	27	50	71	27	50	71	32	50	58	32	50	58	32	50	58	32	50	58
Input power	W	49	80	627	66	89	118	66	89	118	92	117	138	92	117	138	92	117	138	92	117	138
Electrical wiring		V1	V5	V6	V1	V4	V7	V1	V4	V7	V2	V5	V7	V2	V5	V7	V2	V5	V7	V2	V5	V7

Duct type fan coil sound data (3)

Sound power level (inlet + radiated)	dB(A)	45,0	55,0	57,0	46,0	56,0	61,0	46,0	56,0	61,0	54,0	60,0	62,0	54,0	60,0	62,0	54,0	60,0	62,0	54,0	60,0	62,0
Sound power level (outlet)	dB(A)	41,0	51,0	53,0	44,0	54,0	60,0	44,0	54,0	60,0	52,0	59,0	61,0	52,0	59,0	61,0	52,0	59,0	61,0	52,0	59,0	61,0

Finned pack heat exchanger

Water content main heat exchanger	I	1,4			1,2			1,6			1,2			1,6			1,8			2,3		
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Diameter hydraulic fittings

Main heat exchanger	Ø	3/4"			3/4"			3/4"			3/4"			3/4"			3/4"			3/4"		
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(1) Room air temperature 20 °C d.b.; Water (in/out) 70 °C/60 °C

(2) Room air temperature 20 °C d.b.; Water (in/out) 45 °C/40 °C; EUROVENT

(3) Aermec determines the sound power value on the basis of measurements taken in accordance with standard UNI EN 16583:15, respecting the Eurovent certification.

4-pipe

	FCZ201P0			FCZ301P0			FCZ401P0			FCZ501P0			FCZ601P0			FCZ701P0			FCZ901P0		
	2	4	6	1	4	6	1	3	6	1	5	6	1	4	7	2	5	7	2	5	7
	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H

Heating performance 65 °C / 55 °C (1)

Heating capacity	kW	1,06	1,37	1,48	1,82	2,39	2,55	2,19	2,75	2,99	2,59	3,30	3,34	3,13	3,85	4,35	4,13	4,40	4,60	5,16	5,71	5,77
Water flow rate system side	l/h	93	120	130	159	210	223	192	240	262	226	290	301	274	336	381	361	385	403	452	500	504
Pressure drop system side	kPa	5	8	9	8	12	14	5	7	8	6	9	9	9	13	16	16	15	17	10	12	12

Cooling performance 7 °C / 12 °C

Cooling capacity	kW	0,93	1,30	1,44	1,70	2,40	2,63	2,29	3,06	3,41	2,68	3,65	3,82	3,37	4,08	4,65	4,24	4,97	5,18	4,38	5,33	5,95
Sensible cooling capacity	kW	0,74	1,14	1,18	1,27	1,86	2,03	1,66	2,24	2,52	1,94	2,70	2,83	2,70	3,34	3,92	3,24	3,83	4,02	3,11	4,11	4,73
Water flow rate system side	l/h	160	224	248	292	413	452	394	526	586	461	628	657	580	702	800	729	855	28	753	917	1023
Pressure drop system side	kPa	8	13	15	8	16	18	11	18	22	13	22	24	15	21	26	20	26	28	10	14	17

Fan

Type	type	Centrifugal			Centrifugal			Centrifugal			Centrifugal			Centrifugal			Centrifugal			Centrifugal		
Fan motor	type	Asynchronous			Asynchronous			Asynchronous			Asynchronous			Asynchronous			Asynchronous			Asynchronous		
Number	no.	1			2			2			2			3			3			3		
Air flow rate	m³/h	148	226	254	263	404	446	346	487	559	400	592	627	567	770	920	785	978	1050	785	978	1050
High static pressure	Pa	21	50	63	21	50	61	25	50	66	22	50	56	27	50	71	32	50	58	32	50	58
Input power	W	28	41	74	38	55	78	53	63	102	49	80	627	66	89	118	92	117	138	92	117	138
Electrical wiring		V2	V4	V6	V1	V4	V6	V1	V3	V6	V1	V5	V6	V1	V4	V7	V2	V5	V7	V2	V5	V7

Duct type fan coil sound data (2)

Sound power level (inlet + radiated)	dB(A)	41,0	56,0	59,0	39,0	51,0	54,0	44,0	54,0	55,0	45,0	55,0	57,0	46,0	56,0	61,0	54,0	60,0	62,0	54,0	60,0	62,0
Sound power level (outlet)	dB(A)	37,0	52,0	55,0	35,0	47,0	49,0	40,0	50,0	52,0	41,0	51,0	53,0	44,0	54,0	60,0	52,0	59,0	61,0	52,0	59,0	61,0

Finned pack heat exchanger

Water content main heat exchanger	l	0,5			0,8			1,0			1,0			1,2			1,2			1,8		
Water content secondary heat exchanger	l	0,2			0,3			0,3			0,3			0,4			0,4			0,7		

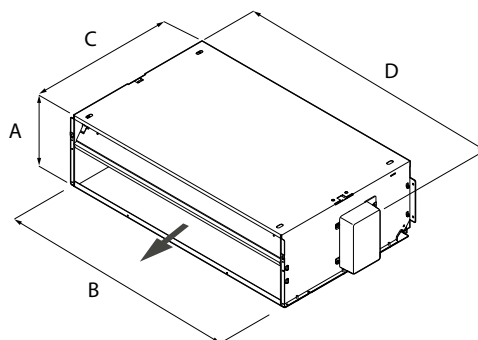
Diameter hydraulic fittings

Main heat exchanger	Ø	1/2"			3/4"			3/4"			3/4"			3/4"			3/4"			3/4"		
Secondary heat exchanger	Ø	1/2"			1/2"			1/2"			1/2"			1/2"			1/2"			1/2"		

(1) Room air temperature 20°C d.b.; Water (in/out) 65 °C/55 °C; EUROVENT

(2) Aermec determines the sound power value on the basis of measurements taken in accordance with standard UNI EN 16583:15, respecting the Eurovent certification.

DIMENSIONS



		FCZ101P	FCZ102P	FCZ201P	FCZ202P	FCZ301P	FCZ302P	FCZ401P	FCZ402P	FCZ501P	FCZ502P
Dimensions and weights											
A	mm	216	216	216	216	216	216	216	216	216	216
B	mm	412	412	522	522	753	753	973	973	973	973
C	mm	453	453	453	453	453	453	453	453	453	453
D	mm	452	452	562	562	793	793	1013	1013	1013	1013
Net weight	kg	12,0	13,0	13,0	14,0	15,0	16,0	21,0	22,0	23,0	24,0
		FCZ601P	FCZ602P	FCZ701P	FCZ702P	FCZ801P	FCZ802P	FCZ901P	FCZ1001P		
Dimensions and weights											
A	mm	216	216	216	216	216	216	216	216		
B	mm	1122	1122	1122	1122	1122	1122	1122	1122		
C	mm	453	453	453	453	453	453	558	558		
D	mm	1147	1147	1147	1147	1147	1147	1147	1147		
Net weight	kg	30,0	31,0	30,0	31,0	30,0	31,0	32,0	32,0		

Aermec reserves the right to make any modifications deemed necessary.
All data is subject to change without notice. Aermec does not assume responsibility or liability for errors or omissions.

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FCZI P

Fan coil unit for ducted installations

Cooling capacity 0,89 ÷ 8,60 kW
Heating capacity 2,02 ÷ 17,02 kW

- Electric saving equal to 50% with respect to a fan coil with 3-speed motor
- Suitable for duct-type installations too
- Total comfort: reduced variations in temperature and relative humidity
- Vertical and horizontal installation
- Very quiet



DESCRIPTION

fan coil can be installed in any 2/4 pipe system and operates with any heat generator even at low temperatures, and thanks to varied versions and settings, it is easy to pick the ideal solution for any need.

FEATURES

Ventilation group

Centrifugal fans in anti-static plastic material with aerofoil profile designed to achieve high airflows and pressures whilst at the same time producing low noise.

Their characteristics permit energy savings compared to conventional fans. They are statically and dynamically balanced and directly coupled to the motor shaft.

The Brushless electric motor with 0-100% continuous speed variation, which allows precise adaptation to the real demands of the internal environment without temperature fluctuations.

Finned pack heat exchanger

With copper pipes and aluminium louvers, the standard or oversized heat exchanger and the possible secondary heat exchanger have female gas water connections on the left side and the manifolds have air vents.

The coil is not suitable for use in corrosive atmosphere or in environments where aluminium may be subject to corrosion.

Reversibility of the water connections during installation only for units with a standard or boosted main heat exchanger, or standard with BV accessory. Not reversible in all other configurations. In any case, units with the coil water connections on the right are available at the time of ordering.

Condensate drip

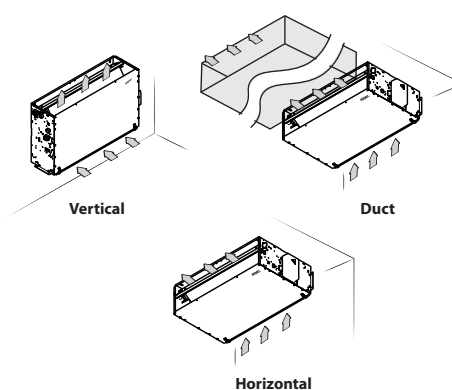
Provided standard in plastic and fixed to the interior structure; with external condensate discharge.

Air filter

Air filter class Coarse 25% for all versions easy to pull out and clean.

VERSIONS

Flush-mounting and duct-type versions



In the standard configuration there is no useful static pressure available. If necessary for canaled installations, you must act on the engine dip switches, for more details refer to the technical documentation.

GUIDE TO SELECTING THE POSSIBLE CONFIGURATIONS

Field	Description
1,2,3,4	FCZI
5,6,7	Size 200, 201, 202, 250, 300, 301, 302, 350, 400, 401, 402, 450, 500, 501, 502, 550, 700, 701, 702, 750, 900, 901, 950
8	main heat exchanger

SIZE AVAILABLE FOR VERSION

Size	200	201	202	250	300	301	302	350	400	401	402	450
Versions produced (by size)												
Versions available (by size)	P,PR	.	.	.	.	.	.	.	.	.	.	.
	500	501	502	550	700	701	702	750	900	901	950	
Versions produced (by size)												
Versions available (by size)	P,PR	.	.	.	.	.	.	.	.	.	.	.

ACCESSORIES

Control panels

AER503IR: Flush-mounting thermostat with backlit display, capacitive keypad and infrared receiver, for controlling both brushless fan coils and those with an asynchronous motor. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices (Cold Plasma and germicidal lamp), with radiant plate or with FCZ-D twin delivery (Dualjet). In addition, it can control systems with radiant panels or mixed (fan coil and radiant floor) systems. Being equipped with an infrared receiver, it can, in turn, be controlled by the VMF-IR remote control.

PRO503: Wall box for AER503IR and VMF-E4 thermostats.

PXAI: Thermostat on the machine for controlling the fan coils (both with asynchronous and brushless motors), complete with water and air probes to be positioned in the relative seats, and a plastic support to fix it on the side of the unit. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, purifier devices (Cold Plasma and germicidal lamp), or radiant plate.

SA5: air probe kit (L = 15 m) with probe-locking cable grommet.

SW3: Water probe (L = 2.5 m) for controlling the minimum and maximum and to allow automatic seasonal switching for electronic thermostats fitted with water side changeover.

SW5: water probe kit (L = 15m) with probe-holder connection point, fixing clip and probe-holder from heat exchanger.

TX: Wall-mounting thermostat for controlling either brushless fan coils or those with asynchronous motors for 2/4 pipe. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices, radiant plate or FCZ-D twin delivery (Dualjet).

AerSuite

The AerSuite application is used to remotely control the DI24 user interface, with VMF-E19/VMF-E19I thermostats, using Smart Devices with iOS and Android operating systems.

This is an application for Smartphones and Tablets with which the user can access and control the system operation remotely.

For more information about the use of the application and the available functions, refer to the respective documentation on the website.



VMF system

DI24: Flush-mounted interface (503 box) with 2.4" touch screen display to be combined with VMF-E19, VMF-E19I accessories. It allows you to regulate and monitor the temperature inside rooms precisely and on time; in addition to accessing and interacting with your system's operating information, parameters and alarms, it allows you to set time slots. Thanks to its Wi-Fi

Field	Description
9	Secondary heat exchanger
10	Version
P	Flush-mounting
PR	Flush-mounting with water connections on right-hand side

connection, DI24 in combination with the AerSuite APP (available for Android and iOS) can also be remotely controlled. All programming and most functions are done in a simple and intuitive way using the APP. To allow for customization of the interface so that it seamlessly integrates with the style of any home, DI24 is compatible with switch plates from major brands available on the market. For more information, please refer to our documentation. However, a switch plate with its graphite gray support, DI24CP, is also available as a separate accessory in our catalog.

VMF-E19I: Thermostat for inverter unit to be fixed on the side of the fan coil, fitted as standard with an air and water probe.

VMF-E3: Wall mounted user interface, to be combined with accessories VMF-E19, VMF-E19I, with grids GLF_N/M and GLL_N, can be controlled with VMF-IR control.

VMF-E4DX: Wall-mounted user interface. Grey front panel PANTONE 425C (METAL).

VMF-E4X: Wall-mounted user interface. Light grey front panel PANTONE COOL GRAY 1C.

VMF-IR: User interface compatible with the AER503IR, VMF-E3 thermostat and with all the grids of cassettes equipped with the infrared receiver compatible with the VMF system.

VMF-SW: Water probe (L = 2.5m) used if required in place of the standard unit supplied with the VMF-E19 and VMF-E19I thermostats for mounting it upstream of the valve.

VMF-SW1: Additional water probe (L = 2.5m) to be used if required for 4-pipe systems with the VMF-E19 and VMF-E19I thermostats for maximum control in the cold range

VMHI: The VMHI panel can be used as a user interface for VMF-E19/E19I thermostats, GLFxN/M or GLLxN grids, or as an interface for the MZC system. What determines the function to be performed by the user interface is determined by its correct parametrisation and by following the electrical connections between interface and thermostat or interface and plenum.

Water valves

VCZ_X: 3-way valve kit for single-coil fan coil, RH connections, (VCZ_X4R) or LH (VCZ_X4L) for 4-pipe systems. With totally separate "heating" and "cooling" circuits. This kit consists of two 3-way insulated valves and four connections, complete with electrothermal actuators, insulating shells for the valves, and the relative hydraulic couplings. X4L version for fan coils with LH connections, and X4R for fan coils with RH connections. 230V~50Hz power supply.

VCZ41: 3-way motorised valve kit for the main coil. The kit is made up of a valve with its insulating shell, actuator and relative hydraulic fittings. It can be installed on fan coils with both right and left connections. If the valve is combined with the BCZ5 or BCZ6 condensate drain pan, to ensure a better housing it is possible to remove the insulating shell.

VCZ4124: 3-way motorised valve kit for the main coil. The kit is made up of a valve with its insulating shell, actuator and relative hydraulic fittings. It can be installed on fan coils with both right and left connections. If the valve is combined with the BCZ5 or BCZ6 condensate drain pan, to ensure a better housing it is possible to remove the insulating shell.

VCZ42: 3-way motorised valve kit for the main coil. The kit is made up of a valve with its insulating shell, actuator and relative hydraulic fittings. It can be installed on fan coils with both right and left connections. If the valve is combined with the BCZ5 or BCZ6 condensate drain pan, to ensure a better housing it is possible to remove the insulating shell.

VCZ4224: 3-way motorised valve kit for the main coil. The kit is made up of a valve with its insulating shell, actuator and relative hydraulic fittings. It can be installed on fan coils with both right and left connections. If the valve is combined with the BCZ5 or BCZ6 condensate drain pan, to ensure a better housing it is possible to remove the insulating shell.

VCZ43: 3-way motorised valve kit for the main coil. The kit is made up of a valve with its insulating shell, actuator and relative hydraulic fittings. It can be installed on fan coils with both right and left connections. If the valve is combined with the BCZ5 or BCZ6 condensate drain pan, to ensure a better housing it is possible to remove the insulating shell.

VCZ4324: 3-way motorised valve kit for the main coil. The kit is made up of a valve with its insulating shell, actuator and relative hydraulic fittings. It can be installed on fan coils with both right and left connections. If the valve is combined with the BCZ5 or BCZ6 condensate drain pan, to ensure a better housing it is possible to remove the insulating shell.

VCF44 - 45 - for secondary heat exchanger: The 3-way motorised valve kit for the secondary coil heat only. The kit consists of a valve with its insulating shell, actuator and relevant water fittings; it is suitable to be installed on the fan coils with right and left water connections.

VCZD: 2-way motorised valve kit. The kit consists of a valve, an actuator and the relative pipe fittings. It can be installed on fan coils with both right and left connections.

VJP: Control and balancing combination valve for 2 and 4 pipe systems to install outside the unit, supplied without fittings and hydraulic components. The valve, which can guarantee a constant water flow rate in the terminal, within its operating range.

(Heating only) additional coil

BV: Hot water heat exchanger with 1 row.

Installation accessories

AMP: Wall mounting kit

DSC: Condensate drainage device.

BC: Condensate drip.

BCZ: Condensate drip. If the valve is paired with the BCZ5 or BCZ6 condensate drip tray, the insulating shell can be removed to ensure better housing.

Ventilcassaforma: Galvanised sheet metal template. It makes it possible to obtain directly in the wall a space for housing the fan coil.

MZA: Cabinet housing with fixed fins.

MZU: Cabinet housing with adjustable fins.

GA: Intake grid with fixed louvers

GAF: Intake grid with filter and fixed louvers

GM: Flow grid with adjustable louvers.

PA: Intake plenum in galvanised sheet metal, complete with suction couplings for circular-section ducts.

PAF: Intake plenum providing recovery and delivery on the same side, for all installations where the machine needs to be positioned outside the air conditioned rooms to minimise the noise levels and facilitate maintenance.

PM: Galvanised sheet steel flow plenum, externally insulated, equipped with plastic flow fittings for ducts and circular sections.

RD: Straight delivery coupling for canalisation.

RDA: Straight suction coupling for canalisation.

RP: 90° delivery coupling.

RPA: 90° suction coupling.

Accessories for ducting

MZC: Plenum with motorised dampers.

RDA_V: Straight intake connection with rectangular flange.

RPA_V: Suction plenum with rectangular flange; both sides have a circular push-out Ø 150mm that can be removed.

RDA_C: Straight intake connection with circular flanges.

PA_V: Suction plenum with circular plastic flanges; both sides have a circular push-out Ø 150mm that can be removed.

PM_V: Internally insulated delivery plenum with circular flanges; both sides have a circular push-out Ø 150mm that can be removed.

RPM_V: Internally insulated delivery plenum with rectangular flange; both sides have a circular push-out Ø 150mm that can be removed.

RDM_V: Straight delivery coupling in galvanised sheet metal.

RDM_C: Straight discharge internally insulated, with circular flanges.

ACCESSORIES COMPATIBILITY

Control panels

Model	Ver	200	201	202	250	300	301	302	350	400	401	402	450	500	501	502	550	700	701	702	750	900	901	950
AER503IR (1)	P,PR	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
PRO503	P,PR	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
PXA1	P,PR	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
SAS (2)	P,PR	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
SW3 (2)	P,PR	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
SW5 (2)	P,PR	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
TX (3)	P,PR	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*

(1) Wall-mount installation.

(2) Probe for AER503IR-TX thermostats, if fitted.

(3) Wall-mounting. If the unit intake exceeds 0.7A, or several units need to be managed with a single thermostat, board SIT3 and/or SIT5 is required.

VMF system

For more information about VMF system, refer to the dedicated documentation.

VMF system

Model	Ver	200	201	202	250	300	301	302	350	400	401	402	450	500	501	502	550	700	701	702	750	900	901	950
DI24	P,PR	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
VMF-E19I (1)	P,PR	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
VMF-E3	P,PR	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
VMF-E4DX	P,PR	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
VMF-E4X	P,PR	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
VMF-IR	P,PR	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
VMF-SW	P,PR	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
VMF-SW1	P,PR	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
VMHI	P,PR	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*

(1) Mandatory accessory.

Water valves

Valve Kit for 4 pipe systems

Model	Ver	200	201	202	250	300	301	302	350	400	401	402	450	500	501	502	550	700	701	702	750	900	901	950
VCZ1X4L (1)	P,PR	*																						
VCZ1X4R (1)	P,PR	*																						
VCZ2X4L (1)	P,PR					*				*	*			*	*			*	*			*		
VCZ2X4R (1)	P,PR					*				*	*			*	*			*	*			*		
VCZ3X4L (1)	P,PR																					*		*

Model	Ver	200	201	202	250	300	301	302	350	400	401	402	450	500	501	502	550	700	701	702	750	900	901	950
VCZ3X4R (1)	PPR																						.	.

(1) The valves can be combined with the units if there is a control panel for managing them.

3 way valve kit

	200	201	202	250	300	301	302	350	400	401	402	450
Main coil	VCZ41	VCZ41	VCZ41	VCZ41	VCZ42	VCZ42	VCZ42	VCZ42	VCZ42	VCZ42	VCZ42	VCZ42
	VCZ4124	VCZ4124	VCZ4124	VCZ4124	VCZ4224	VCZ4224	VCZ4224	VCZ4224	VCZ4224	VCZ4224	VCZ4224	VCZ4224
Secondary coil	-	VCF44 VCF4424	VCF44 VCF4424	-	-	VCF44 VCF4424	VCF44 VCF4424	-	-	VCF44 VCF4424	VCF44 VCF4424	-
Additional coil “BV”	VCF44 VCF4424	-	-	-	VCF44 VCF4424	-	-	-	VCF44 VCF4424	-	-	-
	500	501	502	550	700	701	702	750	900	901	950	
Main coil	VCZ42	VCZ42	VCZ42	VCZ42	VCZ42	VCZ42	VCZ42	VCZ42	VCZ43	VCZ43	VCZ43	
	VCZ4224	VCZ4224	VCZ4224	VCZ4224	VCZ4224	VCZ4224	VCZ4224	VCZ4224	VCZ4324	VCZ4324	VCZ4324	
Secondary coil	-	VCF44 VCF4424	VCF44 VCF4424	-	-	VCF44 VCF4424	VCF44 VCF4424	-	-	VCF45 VCF4524	-	
Additional coil “BV”	VCF44 VCF4424	-	-	-	VCF44 VCF4424	-	-	-	VCF45 VCF4524	-	-	

VCZ41 - 42 - 43; VCF44 - 45 (230V~50Hz)

VCZ4124 - 4224 - 4324; VCF4424 - 4524 (24V)

2 way valve kit

	200	201	202	250	300	301	302	350	400	401	402	450
Main coil	VCZD1	VCZD1	VCZD1	VCZD1	VCZD2	VCZD2	VCZD2	VCZD2	VCZD2	VCZD2	VCZD2	VCZD2
	VCZD124	VCZD124	VCZD124	VCZD124	VCZD224	VCZD224	VCZD224	VCZD224	VCZD224	VCZD224	VCZD224	VCZD224
Secondary coil	-	VCFD4	VCFD4	-	-	VCFD4	VCFD4	-	-	VCFD4	VCFD4	-
		VCFD424	VCFD424			VCFD424	VCFD424			VCFD424	VCFD424	
Additional coil “BV”	VCFD4				VCFD4				VCFD4			
	VCFD424	-	-	-	VCFD424	-	-	-	VCFD424	-	-	-
	500	501	502	550	700	701	702	750	900	901	950	
Main coil	VCZD2	VCZD2	VCZD2	VCZD2	VCZD2	VCZD2	VCZD2	VCZD2	VCZD3	VCZD3	VCZD3	
	VCZD224	VCZD224	VCZD224	VCZD224	VCZD224	VCZD224	VCZD224	VCZD224	VCZD324	VCZD324	VCZD324	
Secondary coil	-	VCFD4	VCFD4	-	-	VCFD4	VCFD4	-	-	VCFD4	-	
		VCFD424	VCFD424			VCFD424	VCFD424			VCFD424		
Additional coil “BV”	VCFD4				VCFD4				VCFD4			
	VCFD424	-	-	-	VCFD424	-	-	-	VCFD424	-	-	

VCZD1 - 2 - 3; VCFD4 (230V~50Hz)

VCZD124 - 224 - 324; VCF424 (24V)

Combined Adjustment and Balancing Valve Kit

Model	Ver	200	201	202	250	300	301	302	350	400	401	402	450	500	501	502	550	700	701	702	750	900	901	950
VJP060 (1)	P,PR	*	*	*	*	*	*	*	*															
VJP060M (2)	P,PR	*	*	*	*	*	*	*	*															
VJP090 (1)	P,PR									*	*	*	*	*	*	*	*							
VJP090M (2)	P,PR									*	*	*	*	*	*	*	*							
VJP150 (1)	P,PR																	*	*	*	*	*	*	*
VJP150M (2)	P,PR																	*	*	*	*	*	*	*

(1) 230V~50Hz

(2) 24V

(Heating only) additional coil

Heating only additional coil

Model	Ver	200	201	202	250	300	301	302	350	400	401	402	450	500	501	502	550	700	701	702	750	900	901	950
BV122 (1)	P,PR	*																						
BV132 (1)	P,PR					*																		
BV142 (1)	P,PR									*				*										
BV162 (1)	P,PR																					*		
BVZ800 (1)	P,PR																	*						

(1) Not available for sizes with oversized main coil.

Installation accessories

Wall mounting kit

Model	Ver	200	201	202	250	300	301	302	350	400	401	402	450	500	501	502	550	700	701	702	750	900	901	950
AMP20	P,PR	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*							
AMPZ	P,PR																	*	*	*	*	*	*	*

Condensate drip

Model	Ver	200	201	202	250	300	301	302	350	400	401	402	450	500	501	502	550	700	701	702	750	900	901	950
BCZ4 (1)	P,PR	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
BCZ5 (2)	P,PR	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*

Model	Ver	200	201	202	250	300	301	302	350	400	401	402	450	500	501	502	550	700	701	702	750	900	901	950	
BCZ6 (2)	PPR																						*	*	

(1) For vertical installation.

(2) For horizontal installation.

Model	Ver	200	201	202	250	300	301	302	350	400	401	402	450	500	501	502	550	700	701	702	750	900	901	950
BC8 (1)	PPR	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
BC9 (1)	PPR																						.	.

(1) For horizontal installation.

Condensate recirculation device

Model	Ver	200	201	202	250	300	301	302	350	400	401	402	450	500	501	502	550	700	701	702	750	900	901	950
DSCZ4 (1)	PPR	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

(1) DSCZ4 due to space problems inside the unit, the VCZ1-2-3-4 X4L/R valves cannot be mounted together with the amp/AMPZ accessories, with all the condensate collection trays. With the VMF-E19/E19I thermostats, please contact the head office.

Ventilcassaforma

Model	Ver	200	201	202	250	300	301	302	350	400	401	402	450	500	501	502	550	700	701	702	750	900	901	950
CHF22	P,PR	*	*	*	*																			
CHF32	P,PR					*	*	*	*															
CHF42	P,PR									*	*	*	*	*	*	*	*							
CHF62	P,PR																	*	*	*	*	*	*	*

Cabinet housing with fixed fins.

Model	Ver	200	201	202	250	300	301	302	350	400	401	402	450	500	501	502	550	700	701	702	750	900	901	950
MZA200	P,PR	*	*	*	*																			
MZA300	P,PR					*	*	*	*															
MZA500	P,PR									*	*	*	*	*	*	*	*							
MZA800	P,PR																	*	*	*	*			
MZA900	P,PR																					*	*	*

Cabinet housing with adjustable fins.

Model	Ver	200	201	202	250	300	301	302	350	400	401	402	450	500	501	502	550	700	701	702	750	900	901	950
MZU100	P,PR	*	*	*	*																			
MZU300	P,PR					*	*	*	*															
MZU500	P,PR									*	*	*	*	*	*	*	*							
MZU800	P,PR																	*	*	*	*			
MZU900	P,PR																					*	*	*

Wall mounting and duct type installation accessories**Lower intake grille**

Model	Ver	200	201	202	250	300	301	302	350	400	401	402	450	500	501	502	550	700	701	702	750	900	901	950
GA22	P,PR	*	*	*	*																			
GA32	P,PR					*	*	*	*															
GA42	P,PR									*	*	*	*	*	*	*	*							
GA62	P,PR																	*	*	*	*	*	*	*

Intake grilles with fixed louvers and filter

Model	Ver	200	201	202	250	300	301	302	350	400	401	402	450	500	501	502	550	700	701	702	750	900	901	950
GAF22	P,PR	*	*	*	*																			
GAF32	P,PR					*	*	*	*															
GAF42	P,PR									*	*	*	*	*	*	*	*							
GAF62	P,PR																	*	*	*	*	*	*	*

Delivery grilles with adjustable louvers

Model	Ver	200	201	202	250	300	301	302	350	400	401	402	450	500	501	502	550	700	701	702	750	900	901	950
GM22	P,PR	*	*	*	*																			
GM32	P,PR					*	*	*	*															
GM42	P,PR									*	*	*	*	*	*	*	*							
GM62	P,PR																	*	*	*	*	*	*	*

Intake plenum in sheet metal complete with connectors for circular channels

Model	Ver	200	201	202	250	300	301	302	350	400	401	402	450	500	501	502	550	700	701	702	750	900	901	950
PA22	P,PR	*	*	*	*																			
PA32	P,PR					*	*	*	*															
PA42	P,PR									*	*	*	*	*	*	*	*							
PA62	P,PR																	*	*	*	*	*	*	*

Intake plenum providing recovery and delivery on the same side

Model	Ver	200	201	202	250	300	301	302	350	400	401	402	450	500	501	502	550	700	701	702	750	900	901	950
PA22F	P,PR	*	*	*	*																			
PA32F	P,PR					*	*	*	*															
PA42F	P,PR									*	*	*	*	*	*	*	*							
PA62F	P,PR																	*	*	*	*	*	*	*

Delivery plenum with circular flanges.

Model	Ver	200	201	202	250	300	301	302	350	400	401	402	450	500	501	502	550	700	701	702	750	900	901	950
PM22	P,PR	.	.	.	.																			
PM32	P,PR					.	.	.	.															
PM42	P,PR									.	.	.	.	.	.	.	.							
PM62	P,PR																	.	.	.	.	.	.	.

Straight delivery coupling

Model	Ver	200	201	202	250	300	301	302	350	400	401	402	450	500	501	502	550	700	701	702	750	900	901	950
RD22	P,PR	.	.	.	.																			
RD32	P,PR					.	.	.	.															
RD42	P,PR									.	.	.	.	.	.	.	.							
RD62	P,PR																	.	.	.	.	.	.	.

Straight suction coupling

Model	Ver	200	201	202	250	300	301	302	350	400	401	402	450	500	501	502	550	700	701	702	750	900	901	950
RDA22	P,PR	.	.	.	.																			
RDA32	P,PR					.	.	.	.															
RDA42	P,PR									.	.	.	.	.	.	.	.							
RDA62	P,PR																	.	.	.	.	.	.	.

90° delivery coupling.

Model	Ver	200	201	202	250	300	301	302	350	400	401	402	450	500	501	502	550	700	701	702	750	900	901	950
RP22	P,PR	.	.	.	.																			
RP32	P,PR					.	.	.	.															
RP42	P,PR									.	.	.	.	.	.	.	.							
RP62	P,PR																	.	.	.	.	.	.	.

90° suction coupling.

Model	Ver	200	201	202	250	300	301	302	350	400	401	402	450	500	501	502	550	700	701	702	750	900	901	950
RPA22	P,PR	.	.	.	.																			
RPA32	P,PR					.	.	.	.															
RPA42	P,PR									.	.	.	.	.	.	.	.							
RPA62	P,PR																	.	.	.	.	.	.	.

Accessories for ducting**Plenum with motorised dampers.**

Model	Ver	200	201	202	250	300	301	302	350	400	401	402	450	500	501	502	550	700	701	702	750	900	901	950
MZC220	P,PR	.	.	.	.																			
MZC320	P,PR					.	.	.	.															
MZC530	P,PR									.	.	.	.	.	.	.	.							
MZC830	P,PR																	.	.	.	.	.	.	.

Straight intake connection with rectangular flange.

Model	Ver	200	201	202	250	300	301	302	350	400	401	402	450	500	501	502	550	700	701	702	750	900	901	950
RDA000V	P,PR	.	.	.	.																			
RDA100V	P,PR					.	.	.	.															
RDA200V	P,PR									.	.	.	.	.	.	.	.							
RDA300V	P,PR																	.	.	.	.	.	.	.

Intake plenum with rectangular flange.

Model	Ver	200	201	202	250	300	301	302	350	400	401	402	450	500	501	502	550	700	701	702	750	900	901	950
RPA000V	P,PR	.	.	.	.																			
RPA100V	P,PR					.	.	.	.															
RPA200V	P,PR									.	.	.	.	.	.	.	.							
RPA300V	P,PR																	.	.	.	.	.	.	.

Suction plenum with plastic circular flanges.

Model	Ver	200	201	202	250	300	301	302	350	400	401	402	450	500	501	502	550	700	701	702	750	900	901	950
PA000V	P,PR	.	.	.	.																			
PA100V	P,PR					.	.	.	.															
PA200V	P,PR									.	.	.	.	.	.	.	.							
PA300V	P,PR																	.	.	.	.	.	.	.

Internally insulated delivery plenum with circular flanges.

Model	Ver	200	201	202	250	300	301	302	350	400	401	402	450	500	501	502	550	700	701	702	750	900	901	950
PM000V	P,PR	.	.	.	.																			
PM100V	P,PR					.	.	.	.															
PM200V	P,PR									.	.	.	.	.	.	.	.							
PM300V	P,PR																	.	.	.	.	.	.	.

Internally insulated delivery plenum with rectangular flange.

Model	Ver	200	201	202	250	300	301	302	350	400	401	402	450	500	501	502	550	700	701	702	750	900	901	950
RPM000V	P,PR	*	*	*	*																			
RPM100V	P,PR					*	*	*	*															
RPM200V	P,PR									*	*	*	*	*	*	*	*							
RPM300V	P,PR																	*	*	*	*	*	*	*

Straight delivery coupling in galvanised sheet metal.

Model	Ver	200	201	202	250	300	301	302	350	400	401	402	450	500	501	502	550	700	701	702	750	900	901	950
RDM000V	P,PR	*	*	*	*																			
RDM100V	P,PR					*	*	*	*															
RDM200V	P,PR									*	*	*	*	*	*	*	*							
RDM300V	P,PR																	*	*	*	*	*	*	*

Straight discharge internally insulated, with circular flanges.

Model	Ver	200	201	202	250	300	301	302	350	400	401	402	450	500	501	502	550	700	701	702	750	900	901	950
RDMC000V	P,PR	*	*	*	*																			
RDMC100V	P,PR					*	*	*	*															
RDMC200V	P,PR									*	*	*	*	*	*	*	*							
RDMC300V	P,PR																	*	*	*	*	*	*	*

PERFORMANCE DATA FOR UNITS WITHOUT HEAD (EUROVENT CERTIFICATE FC-H)

2-pipe

		FCZI200P			FCZI250P			FCZI300P			FCZI350P			FCZI400P			FCZI450P		
		1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
		L	M	H	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H
Heating performance 70 °C / 60 °C (1)																			
Heating capacity	kW	2,02	2,95	3,70	2,20	3,18	4,05	3,47	4,46	5,50	3,77	4,92	6,15	4,32	5,74	7,15	4,57	6,29	7,82
Water flow rate system side	l/h	177	258	324	193	278	355	304	391	482	330	431	539	379	503	627	400	551	685
Pressure drop system side	kPa	6	12	18	7	15	23	7	12	18	8	14	20	9	16	24	6	11	16
Heating performance 45 °C / 40 °C (2)																			
Heating capacity	kW	1,00	1,46	1,84	1,09	1,58	2,01	1,72	2,21	2,73	1,87	2,44	3,06	2,14	2,85	3,55	2,27	3,12	3,88
Water flow rate system side	l/h	174	254	319	190	274	350	299	385	475	325	425	531	373	495	617	394	543	675
Pressure drop system side	kPa	6	12	18	8	15	22	8	12	18	8	14	20	10	16	24	6	11	16
Fan																			
Type	type	Centrifugal			Centrifugal			Centrifugal			Centrifugal			Centrifugal			Centrifugal		
Fan motor	type	Inverter			Inverter			Inverter			Inverter			Inverter			Inverter		
Number	no.	1			1			2			2			2			2		
Air flow rate	m³/h	140	220	290	140	220	290	260	350	450	260	350	450	330	460	600	330	460	600
Input power	W	7	8	14	7	8	14	5	7	13	5	7	13	5	10	18	5	10	18
Signal 0-10V	%	44	68	90	44	68	90	52	70	90	52	70	90	49	68	90	49	68	90
Fan coil sound data (3)																			
Sound power level	dB(A)	35,0	46,0	51,0	35,0	46,0	51,0	34,0	41,0	48,0	34,0	41,0	48,0	37,0	44,0	51,0	37,0	44,0	51,0
Sound pressure level	dB(A)	27,0	38,0	43,0	27,0	38,0	43,0	26,0	33,0	40,0	26,0	33,0	40,0	29,0	36,0	43,0	29,0	36,0	43,0
Finned pack heat exchanger																			
Water content main heat exchanger	l	0,5			0,7			0,8			1,0			1,0			1,4		
Diameter hydraulic fittings																			
Main heat exchanger	Ø	1/2"			1/2"			3/4"			3/4"			3/4"			3/4"		
		FCZI500P			FCZI550P			FCZI700P			FCZI750P			FCZI900P			FCZI950P		
		1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
		L	M	H	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H
Heating performance 70 °C / 60 °C (1)																			
Heating capacity	kW	5,27	7,31	8,50	5,82	8,34	9,75	8,10	9,80	11,00	9,10	11,30	12,50	10,77	13,35	15,14	11,20	14,42	17,10
Water flow rate system side	l/h	462	641	745	510	731	855	710	860	964	798	991	1096	945	1171	1328	982	1264	1500
Pressure drop system side	kPa	12	21	28	10	20	26	17	24	29	10	15	18	12	17	22	16	24	33
Heating performance 45 °C / 40 °C (2)																			
Heating capacity	kW	2,62	3,63	4,22	2,89	4,14	4,85	4,03	4,87	5,47	4,52	5,62	6,21	5,35	6,64	7,53	5,57	7,17	8,50
Water flow rate system side	l/h	455	631	734	502	720	842	699	846	950	786	975	1079	930	1152	1307	967	1245	1476
Pressure drop system side	kPa	12	21	28	10	20	26	16	24	29	10	14	18	12	17	22	15	24	33
Fan																			
Type	type	Centrifugal			Centrifugal			Centrifugal			Centrifugal			Centrifugal			Centrifugal		
Fan motor	type	Inverter			Inverter			Inverter			Inverter			Inverter			Inverter		
Number	no.	2			2			3			3			3			3		
Air flow rate	m³/h	400	600	720	400	600	720	700	930	1140	700	930	1140	700	930	1140	700	930	1140
Input power	W	7	18	31	4	10	19	30	40	80	30	40	80	30	40	80	30	40	80
Signal 0-10V	%	50	74	90	50	74	90	56	72	90	56	72	90	56	72	90	56	72	90
Fan coil sound data (3)																			
Sound power level	dB(A)	42,0	51,0	56,0	42,0	51,0	56,0	50,0	57,0	62,0	50,0	57,0	62,0	51,0	57,0	62,0	51,0	57,0	62,0
Sound pressure level	dB(A)	34,0	43,0	48,0	34,0	43,0	48,0	42,0	49,0	54,0	42,0	49,0	54,0	43,0	49,0	54,0	43,0	49,0	54,0
Finned pack heat exchanger																			
Water content main heat exchanger	l	1,0			1,4			1,2			1,6			1,8			2,3		
Diameter hydraulic fittings																			
Main heat exchanger	Ø	3/4"			3/4"			3/4"			3/4"			3/4"			3/4"		

(1) Room air temperature 20 °C d.b.; Water (in/out) 70 °C/60 °C

(2) Room air temperature 20 °C d.b.; Water (in/out) 45 °C/40 °C; EUROVENT

(3) Aermec determines the sound power value on the basis of measurements taken in accordance with standard UNI EN 16583:15, respecting the Eurovent certification.

4-pipe

	FCZI201P			FCZI301P			FCZI401P			FCZI501P			FCZI701P			FCZI901P		
	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H

Heating performance 65 °C / 55 °C (1)

Heating capacity	kW	1,02	1,35	1,60	1,80	2,18	2,56	2,21	2,65	3,12	2,59	3,34	3,73	3,66	4,29	4,94	4,73	5,63	5,72
Water flow rate system side	l/h	89	118	140	158	191	224	186	232	273	227	293	327	320	375	437	414	492	501
Pressure drop system side	kPa	4	8	10	16	23	30	4	6	8	6	8	10	11	14	18	8	12	12

Cooling performance 7 °C / 12 °C

Cooling capacity	kW	0,89	1,28	1,60	1,68	2,17	2,65	2,20	2,92	3,60	2,68	3,69	4,25	3,92	4,89	5,50	4,29	5,00	6,91
Sensible cooling capacity	kW	0,71	1,05	1,33	1,26	1,65	2,04	1,59	2,14	2,67	1,94	2,73	3,18	2,99	3,76	4,30	2,97	3,78	5,68
Water flow rate system side	l/h	153	221	275	288	374	456	379	503	619	460	634	731	675	841	946	738	860	1189
Pressure drop system side	kPa	6	12	18	8	13	18	10	16	24	13	22	29	16	24	30	10	12	22

Fan

Type	type	Centrifugal																	
Fan motor	type	Inverter																	
Number	no.	1			2			2			2			3			3		
Air flow rate	m³/h	140	220	290	260	350	450	330	460	600	400	600	720	700	930	1140	700	930	1140
Input power	W	7	8	14	5	7	13	5	10	18	7	16	31	30	40	80	30	40	80
Signal 0-10V	%	44	68	90	52	70	90	49	68	90	50	74	90	56	72	90	56	72	90

Fan coil sound data (2)

Sound power level	dB(A)	35,0	46,0	51,0	34,0	41,0	48,0	37,0	44,0	51,0	42,0	51,0	56,0	50,0	57,0	62,0	51,0	57,0	62,0
Sound pressure level	dB(A)	27,0	38,0	43,0	26,0	33,0	40,0	29,0	36,0	43,0	34,0	43,0	48,0	42,0	49,0	54,0	43,0	49,0	54,0

Finned pack heat exchanger

Water content main heat exchanger	l	0,5			0,8			1,0			1,0			1,2			1,8		
Water content secondary heat exchanger	l	0,2			0,3			0,3			0,3			0,4			0,7		

Diameter hydraulic fittings

Metric hydraulic fittings									
Main heat exchanger	Ø	1/2"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
Secondary heat exchanger	Ø	1/2"							

(1) Room air temperature 20°C d.b.; Water (in/out) 65 °C/55 °C; EUROVENT

(2) Aermec determines the sound power value on the basis of measurements taken in accordance with standard UNI EN 16583:15, respecting the Eurovent certification.

PERFORMANCE DATA FOR UNITS WITH HEAD (EUROVENT CERTIFICATE FCP-H)

2-pipe

		FCZI200P			FCZI250P			FCZI300P			FCZI350P			FCZI400P			FCZI450P			FCZI500P			FCZI550P		
		1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
		L	M	H	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H
Heating performance 70 °C / 60 °C (1)																									
Heating capacity	kW	1,81	3,16	3,34	2,01	3,40	3,62	3,08	4,83	5,23	3,32	5,43	5,83	3,96	5,85	6,34	4,10	6,44	6,96	5,39	7,28	7,63	5,92	8,37	8,71
Water flow rate system side	l/h	156	272	287	173	292	311	265	415	450	285	467	502	341	503	545	353	554	599	464	626	656	509	720	749
Pressure drop system side	kPa	6	13	16	7	17	19	7	14	16	7	17	19	9	17	19	5	12	13	12	22	23	11	20	21
Heating performance 45 °C / 40 °C (2)																									
Heating capacity	kW	0,90	1,57	1,66	1,00	1,69	1,80	1,53	2,40	2,60	1,65	2,70	2,90	1,97	2,91	3,15	2,04	3,20	3,46	2,68	3,62	3,79	2,94	4,16	4,33
Water flow rate system side	l/h	155	270	288	172	291	308	263	413	447	284	464	499	339	501	542	351	550	595	461	623	652	506	715	745
Pressure drop system side	kPa	6	13	16	7	17	19	7	14	16	7	17	19	9	17	19	5	12	13	12	22	23	11	20	21
Cooling performance 7 °C / 12 °C																									
Cooling capacity	kW	0,80	1,37	1,45	0,95	1,67	1,76	1,40	2,38	2,53	1,66	2,70	2,88	2,03	2,98	3,21	2,22	3,28	3,55	2,73	3,68	3,84	2,97	4,15	4,31
Sensible cooling capacity	kW	0,63	1,13	1,20	0,70	1,29	1,37	1,10	1,82	1,94	1,15	1,94	2,07	1,45	2,18	2,36	1,54	2,35	2,56	1,98	2,73	2,85	2,11	2,98	3,12
Water flow rate system side	l/h	138	236	249	163	287	303	241	409	435	285	464	495	349	512	552	382	564	610	469	633	660	511	714	741
Pressure drop system side	kPa	5	13	16	8	17	19	7	14	16	9	17	19	9	17	19	8	12	13	13	22	23	12	20	21
Fan																									
Type	type	Centrifugal																							
Fan motor	type	Inverter																							
Number	no.	1			1			2			2			2			2			2			2		
Air flow rate	m³/h	123	240	257	123	240	257	225	390	424	225	390	424	300	470	515	300	470	515	410	600	630	410	600	630
High static pressure	Pa	13	50	57	13	50	57	16	50	59	16	50	53	20	50	60	20	50	56	23	50	55	23	50	55
Input power	W	7	27	31	7	27	31	10	11	40	10	30	40	14	38	48	14	38	48	18	50	60	18	50	60
Signal 0-10V	%	43	84	90	43	84	90	48	83	90	48	83	90	52	82	90	52	82	90	58	85	90	58	85	90
Duct type fan coil sound data (3)																									
Sound power level (inlet + radiated)	dB(A)	37,0	57,0	59,0	37,0	57,0	59,0	36,0	50,0	53,0	36,0	50,0	53,0	43,0	53,0	55,0	43,0	53,0	55,0	45,0	56,0	57,0	45,0	56,0	57,0
Sound power level (outlet)	dB(A)	33,0	53,0	55,0	33,0	53,0	55,0	32,0	47,0	49,0	32,0	47,0	49,0	39,0	49,0	52,0	39,0	49,0	52,0	42,0	52,0	52,0	42,0	52,0	52,0
Finned pack heat exchanger																									
Water content main heat exchanger	l	0,5			0,7			0,8			1,0			1,0			1,4			1,0			1,4		
Diameter hydraulic fittings																									
Main heat exchanger	Ø	1/2"			1/2"			3/4"			3/4"			3/4"			3/4"			3/4"			3/4"		
		FCZI700P			FCZI750P			FCZI900P			FCZI950P														
		1	2	3	1	2	3	1	2	3	1	2	3	1	2	3									
		L	M	H	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H						
Heating performance 70 °C / 60 °C (1)																									
Heating capacity	kW	5,33	8,34			8,88			6,17	9,52		10,15		6,58	11,15		11,87		6,68	11,63		12,66			
Water flow rate system side	l/h	468	732			779			541	835		890		566	958		1021		574	1000		1088			
Pressure drop system side	kPa	8	17			20			5	11		12		5	13		14		6	17		19			
Heating performance 45 °C / 40 °C (2)																									
Heating capacity	kW	2,67	4,15			4,40			2,46	4,69		5,00		3,27	5,54		5,90		3,32	5,78		6,29			
Water flow rate system side	l/h	460	720			767			418	806		860		562	953		1015		571	994		1082			
Pressure drop system side	kPa	8	18			20			3	11		12		5	13		14		6	17		19			
Cooling performance 7 °C / 12 °C																									
Cooling capacity	kW	2,20	4,00			4,30			2,60	4,41		4,70		2,81	4,80		5,20		3,58	6,00		6,46			
Sensible cooling capacity	kW	1,71	3,00			3,20			1,90	3,30		3,50		2,10	3,60		3,90		2,33	3,94		4,27			
Water flow rate system side	l/h	378	688			739			447	760		818		483	825		894		616	1032		1111			
Pressure drop system side	kPa	7	18			20			4	11		12		5	13		14		7	17		19			
Fan																									
Type	type	Centrifugal																							
Fan motor	type	Inverter																							
Number	no.	3			3			3			3			3			3								
Air flow rate	m³/h	405	730			799			405	730		799		405	730		799		405	730		799			
High static pressure	Pa	15	50			60			15	50		60		15	50		60		15	50		60			
Input power	W	21	61			78			21	61		78		21	61		78		21	61		78			
Signal 0-10V	%	46	82			90			46	82		90		45	84		90		45	84		90			
Duct type fan coil sound data (3)																									
Sound power level (inlet + radiated)	dB(A)	41,0	55,0			58,0			41,0	55,0		58,0		44,0	55,0		58,0		44,0	55,0		58,0			
Sound power level (outlet)	dB(A)	36,0	51,0			54,0			36,0	51,0		54,0		40,0	51,0		54,0		40,0	51,0		54,0			
Finned pack heat exchanger																									
Water content main heat exchanger	l	1,2			1,6			1,6			1,8			1,8			2,3								
Diameter hydraulic fittings																									
Main heat exchanger	Ø	3/4"																							

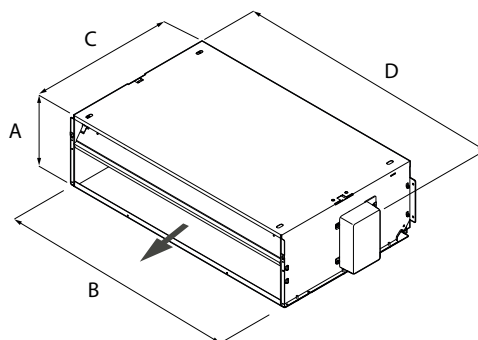
4-pipe

		FCZI201P			FCZI301P			FCZI401P			FCZI501P			FCZI701P			FCZI901P		
		1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
		L	M	H	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H
Heating performance 65 °C / 55 °C (1)																			
Heating capacity	kW	0,94	1,42	1,49	1,60	2,34	2,47	1,99	2,69	2,85	2,62	3,59	3,45	2,99	3,70	3,92	3,17	5,09	5,47
Water flow rate system side	l/h	81	122	128	138	201	212	171	231	245	225	309	297	257	318	337	273	438	470
Pressure drop system side	kPa	4	9	9	6	12	13	4	7	8	6	9	9	8	12	13	4	10	11
Cooling performance 7 °C / 12 °C																			
Cooling capacity	kW	0,80	1,37	1,45	1,40	2,38	2,53	2,03	2,98	3,21	2,73	3,68	3,84	2,20	4,00	4,30	2,80	4,80	5,24
Sensible cooling capacity	kW	0,63	1,13	1,20	1,10	1,82	1,94	1,45	2,18	2,36	1,98	2,73	2,85	1,71	3,00	3,20	2,10	3,60	3,90
Water flow rate system side	l/h	138	236	249	241	409	435	349	512	552	469	633	660	378	688	739	482	825	901
Pressure drop system side	kPa	5	14	16	7	15	17	9	13	20	13	23	25	6	18	20	5	12	13
Fan																			
Type	type	Centrifugal																	
Fan motor	type	Inverter																	
Number	no.	1			2			2			2			3			3		
Air flow rate	m³/h	123	240	257	225	390	424	300	470	515	410	600	630	405	730	799	405	730	799
High static pressure	Pa	13	50	57	16	50	59	20	50	60	23	50	55	15	50	60	15	50	60
Input power	W	7	27	31	10	31	40	14	38	58	18	50	60	21	61	78	21	61	78
Signal 0-10V	%	43	84	90	48	83	90	52	82	90	58	85	90	46	82	90	45	84	90
Duct type fan coil sound data (2)																			
Sound power level (inlet + radiated)	dB(A)	37,0	57,0	59,0	36,0	50,0	53,0	43,0	53,0	55,0	45,0	56,0	57,0	41,0	55,0	58,0	41,0	55,0	58,0
Sound power level (outlet)	dB(A)	33,0	53,0	55,0	32,0	47,0	49,0	39,0	49,0	52,0	42,0	52,0	52,0	36,0	51,0	54,0	36,0	51,0	54,0
Finned pack heat exchanger																			
Water content main heat exchanger	l	0,5			0,8			1,0			1,0			1,2			1,8		
Water content secondary heat exchanger	l	0,2			0,3			0,3			0,3			0,4			0,7		
Diameter hydraulic fittings																			
Main heat exchanger	Ø	1/2"			3/4"			3/4"			3/4"			3/4"			3/4"		
Secondary heat exchanger	Ø	1/2"																	

(1) Room air temperature 20°C d.b.; Water (in/out) 65 °C/55 °C; EUROVENT

(2) Aermec determines the sound power value on the basis of measurements taken in accordance with standard UNI EN 16583:15, respecting the Eurovent certification.

DIMENSIONS



		FCZI200P	FCZI200PAF	FCZI250P	FCZI250PAF	FCZI300P	FCZI300PAF
Dimensions and weights							
A	mm	216	-	216	-	216	-
B	mm	522	-	522	-	753	-
C	mm	453	-	453	-	453	-
D	mm	562	-	562	-	793	-
Net weight	kg	12,0	-	14,0	-	14,0	-
		FCZI350P	FCZI400P	FCZI400PAF	FCZI450P	FCZI500P	FCZI500PAF
Dimensions and weights							
A	mm	216	216	-	216	216	-
B	mm	753	973	-	973	973	-
C	mm	453	453	-	453	453	-
D	mm	793	1013	-	1013	1013	-
Net weight	kg	16,0	20,0	-	22,0	23,0	-
		FCZI550P	FCZI550PAF	FCZI700P	FCZI700PAF	FCZI750P	FCZI750PAF
Dimensions and weights							
A	mm	216	-	216	-	216	-
B	mm	973	-	1122	-	1122	-
C	mm	453	-	453	-	453	-
D	mm	1013	-	1147	-	1147	-
Net weight	kg	24,0	-	29,0	-	31,0	-
		FCZI900P	FCZI900PAF	FCZI950P	FCZI950PAF	Pre_acc	
Dimensions and weights							
A	mm	216	-	216	-	-	-
B	mm	1122	-	1122	-	-	-
C	mm	558	-	558	-	-	-
D	mm	1147	-	1147	-	-	-
Net weight	kg	32,0	-	32,0	-	-	-
		FCZI201P	FCZI202P	FCZI301P	FCZI302P	FCZI401P	FCZI402P
Dimensions and weights							
A	mm	216	216	216	216	216	216
B	mm	522	522	753	753	973	973
C	mm	453	453	453	453	453	453
D	mm	562	562	793	793	1013	1013
Net weight	kg	13,0	14,0	15,0	16,0	21,0	22,0
		FCZI501P	FCZI502P	FCZI701P	FCZI702P	FCZI901P	
Dimensions and weights							
A	mm	216	216	216	216	216	216
B	mm	973	973	1122	1122	1122	1122
C	mm	453	453	453	453	558	558
D	mm	1013	1013	1147	1147	1147	1147
Net weight	kg	23,0	24,0	30,0	31,0	32,0	32,0

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UL-P

- Very quiet
- Ideal for residential or office solutions
- Version with Coldplasma Air purifier



DESCRIPTION

Monobloc duct type fan coils for heating and/or cooling small and medium-sized environments for civil and commercial use.

It can be installed on 2-pipe systems and combined with any heat generator even at low temperatures. Choosing the optimal solution for any requirement is easy thanks to the various versions available and to the possibility of horizontal or vertical installation, depending on the version.

VERSIONS

P Without shell, vertical and horizontal installation, lower intake, without commands

PAF Without shell, vertical and horizontal installation, front intake, without commands

FEATURES

Ventilation group

Comprised of a dual intake centrifugal fan that is particularly silent, statically and dynamically balanced and directly coupled to the motor shaft.

The electric motor is single-phase multi-speed (3 selectable), mounted on anti-vibration supports and with a permanently inserted capacitor.

Heat exchanger coil

With copper pipes and aluminium louvers, the main heat exchanger has female gas water connections on the left side and the manifolds have air vents.

The coil is not suitable for use in corrosive atmosphere or in environments where aluminium may be subject to corrosion.

■ *The hydraulic connections can be inverted during installation.*

Condensate drip

Provided standard in plastic and fixed to the interior structure; with external condensate discharge.

Air filter

The fan coil units are equipped with a standard air filter. For specific details, please refer to the unit's documentation.

ACCESSORIES

Control panels

AER503IR: Flush-mounting thermostat with backlit display, capacitive keypad and infrared receiver, for controlling both brushless fan coils and those with an asynchronous motor. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices (Cold Plasma and germicidal lamp), with radiant plate or with FCZ-D twin delivery (Dualjet). In addition, it can control systems with radiant panels or mixed (fan coil and radiant floor) systems. Being equipped with an infrared receiver, it can, in turn, be controlled by the VMF-IR remote control.

PRO503: Wall box for AER503IR and VMF-E4 thermostats.

SA5: air probe kit (L = 15 m) with probe-locking cable grommet.

SIT3: Thermostat Interface Card allowing the creation of a network of fan coils (max. 10) commanded by a central control panel (selector or thermostat). Commands the 3 fan speeds and must be installed on each fan coil within the network; receives the commands from the selector or the SIT5 card. In case you decide to install Aermec thermostats and current absorbed by the unit exceeds 0.7 A, you're obliged to include SIT3 accessory.

SIT5: Thermostat Interface Card allowing the creation of a network of fan coils (max. 10) commanded by a central control panel. Commands the 3 fan speeds and up to 2 valves (four pipe systems); sends the thermostat's commands to the fan coil network.

SW5: water probe kit (L = 15m) with probe-holder connection point, fixing clip and probe-holder from heat exchanger.

TX: Wall-mounting thermostat for controlling either brushless fan coils or those with asynchronous motors for 2/4 pipe. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices, radiant plate or FCZ-D twin delivery (Dualjet).

WMT10: Electronic thermostat, white, with thermostated or continuous ventilation.

WMT16: Electronic thermostat with thermostated ventilation.

AerSuite

The AerSuite application is used to remotely control the DI24 user interface, with VMF-E19/VMF-E19I thermostats, using Smart Devices with iOS and Android operating systems.

This is an application for Smartphones and Tablets with which the user can access and control the system operation remotely.

For more information about the use of the application and the available functions, refer to the respective documentation on the website.



VMF system

DI24: Flush-mounted interface (503 box) with 2.4" touch screen display to be combined with VMF-E19, VMF-E19I accessories. It allows you to regulate and monitor the temperature inside rooms precisely and on time; in addition to accessing and interacting with your system's operating information, parameters and alarms, it allows you to set time slots. Thanks to its Wi-Fi connection, DI24 in combination with the AerSuite APP (available for Android and iOS) can also be remotely controlled. All programming and most functions are done in a simple and intuitive way using the APP. To allow for customization of the interface so that it seamlessly integrates with the style of any home, DI24 is compatible with switch plates from major brands available on the market. For more information, please refer to our documentation. However, a switch plate with its graphite gray support, DI24CP, is also available as a separate accessory in our catalog.

VMF-E19: Thermostat to be secured to the side of the fan coil, fitted as standard with an air probe and a water probe.

VMF-E3: Wall mounted user interface, to be combined with accessories VMF-E19, VMF-E19I, with grids GLF_N/M and GLL_N, can be controlled with VMF-IR control.

VMF-E4DX: Wall-mounted user interface. Grey front panel PANTONE 425C (METAL).

VMF-E4X: Wall-mounted user interface. Light grey front panel PANTONE COOL GRAY 1C.

ACCESSORIES COMPATIBILITY

Control panels and dedicated accessories - Omnia ULP

Model	Ver	11	16	26	36
AER503IR (1)	P,PAF	*	*	*	*
PRO503	P,PAF	*	*	*	*
SAS (2)	P,PAF	*	*	*	*
SIT3 (3)	P,PAF	*	*	*	*
SIT5 (4)	P,PAF	*	*	*	*
SW5 (2)	P,PAF	*	*	*	*
TX (5)	P,PAF	*	*	*	*
WMT10 (5)	P,PAF	*	*	*	*
WMT16 (5)	P,PAF	*	*	*	*

(1) Wall-mount installation.

(2) Probe for AER503IR-TX thermostats, if fitted.

(3) Cards for AER503IR-TX thermostats, if present, to be installed if the unit absorption exceeds 0,7 Ampere.

(4) Probe for AER503IR-TX thermostats, if fitted.

(5) Wall-mounting. If the unit intake exceeds 0.7A, or several units need to be managed with a single thermostat, board SIT3 and/or SIT5 is required.

VMF system - Omnia ULP

Model	Ver	11	16	26	36
DI24	P,PAF	*	*	*	*
VMF-E19 (1)	P,PAF	*	*	*	*
VMF-E3	P,PAF	*	*	*	*
VMF-E4DX	P,PAF	*	*	*	*
VMF-E4X	P,PAF	*	*	*	*
VMF-IO	P,PAF	*	*	*	*
VMF-IR	P,PAF	*	*	*	*
VMF-LON	P,PAF	*	*	*	*
VMF-SW	P,PAF	*	*	*	*
VMF-SW1	P,PAF	*	*	*	*
VMHI	P,PAF	*	*	*	*

(1) Also the accessory VMF-SIT3V is mandatory if the unit exceeds 0.7 Amperes.

VMF-IO: Manage the unit exclusively from a centralized VMF control panel without area control panel.

VMF-IR: User interface compatible with the AER503IR, VMF-E3 thermostat and with all the grids of cassettes equipped with the infrared receiver compatible with the VMF system.

VMF-LON: Expansion allowing the thermostat to interface with BMS systems that use the LON protocol.

VMF-SW: Water probe (L = 2.5m) used if required in place of the standard unit supplied with the VMF-E19 and VMF-E19I thermostats for mounting it upstream of the valve.

VMF-SW1: Additional water probe (L = 2.5m) to be used if required for 4-pipe systems with the VMF-E19 and VMF-E19I thermostats for maximum control in the cold range

VMHI: The VMHI panel can be used as a user interface for VMF-E19/E19I thermostats, GLF_N/M or GLL_N grids, or as an interface for the MZC system. What determines the function to be performed by the user interface is determined by its correct parametrisation and by following the electrical connections between interface and thermostat or interface and plenum.

Common accessories

DSC: Condensate drainage device.

VCH: 3-way motorised valve kit. The kit consists of a valve, an actuator and the relative pipe fittings. It can be installed on fan coils with both right and left connections.

VCHD: 2-way motorised valve kit. The kit consists of a valve, an actuator and the relative pipe fittings.

BC: Condensate drip.

Ventilcassaforma: Galvanised sheet metal template. It makes it possible to obtain directly in the wall a space for housing the fan coil.

GUIDE TO SELECTING THE POSSIBLE CONFIGURATIONS

Omnia ULP

Field	Description
1,2,3	ULI
4,5	Size 11, 16, 26, 36
6	Version
P	Without shell, vertical and horizontal installation, lower intake, without commands
PAF	Without shell, vertical and horizontal installation, front intake, without commands

Condensate drip**Condensate drainage**

Model	Ver	11	16	26	36
DSCS (1)	P,PAF	•	•	•	•

(1) The accessory cannot be fit if the accessory BC10 or BC20 is installed.

Model	Ver	11	16	26	36
VCH	P,PAF	•	•	•	•

2 way valve kit

Model	Ver	11	16	26	36
VCHD	P,PAF	•	•	•	•

PERFORMANCE SPECIFICATIONS**2-pipe**

	UL11P			UL16P			UL26P			UL36P		
	1	2	3	1	2	3	1	2	3	1	2	3
	L	M	H	L	M	H	L	M	H	L	M	H

Heating performance 70 °C / 60 °C (1)

Heating capacity	kW	1,06	1,46	2,01	1,54	2,12	2,91	2,89	3,83	4,62	3,63	4,87	5,94
Water flow rate system side	l/h	93	128	176	135	186	255	254	336	405	310	427	521
Pressure drop system side	kPa	1	1	2	1	2	4	5	8	11	7	13	18

Heating performance 45 °C / 40 °C (2)

Heating capacity	kW	0,52	0,73	1,00	0,76	1,05	1,44	1,44	1,90	2,29	1,75	2,42	2,95
Water flow rate system side	l/h	92	126	174	133	183	251	249	331	399	305	420	513
Pressure drop system side	kPa	1	1	2	2	3	3	5	8	11	7	13	18

Cooling performance 7 °C / 12 °C

Cooling capacity	kW	0,53	0,67	0,82	0,69	0,87	1,17	1,26	1,65	1,99	1,63	2,26	2,79
Sensible cooling capacity	kW	0,38	0,52	0,68	0,52	0,69	0,96	0,97	1,30	1,61	1,13	1,59	2,00
Water flow rate system side	l/h	94	117	145	122	153	206	220	289	349	286	394	487
Pressure drop system side	kPa	1	2	2	2	3	5	5	8	11	7	13	19

Fan

Type	type	Centrifugal											
Fan motor	type	Asynchronous											
Number	no.	1			1			2			2		
Air flow rate	m³/h	80	120	180	110	160	240	190	270	350	240	350	460
Input power	W	8	12	18	23	25	32	24	27	35	30	35	42
Electrical wiring		V1	V2	V3	V1	V2	V3	V1	V2	V3	V1	V2	V3

Diameter hydraulic fittings

Main heat exchanger	Ø	1/2"										
---------------------	---	------	--	--	--	--	--	--	--	--	--	--

Finned pack heat exchanger

Water content main heat exchanger	l	0,3			0,4			0,6			0,8	
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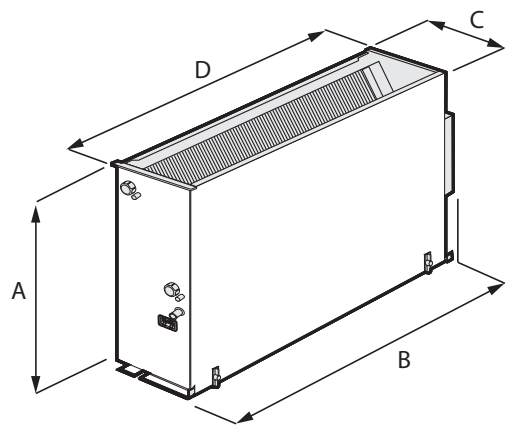
Power supply

Power supply	230V~50Hz											
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(1) Room air temperature 20 °C d.b.; Water (in/out) 70 °C/60 °C

(2) Room air temperature 20 °C d.b.; Water (in/out) 45 °C/40 °C; EUROVENT

DIMENSIONS



		UL11P	UL11PAF	UL16P	UL16PAF	UL26P	UL26PAF	UL36P	UL36PAF
Dimensions and weights									
A	mm	465	-	465	-	465	-	465	-
B	mm	420	-	530	-	761	-	981	-
C	mm	171	-	171	-	171	-	171	-
D	mm	360	-	470	-	701	-	921	-
Net weight	kg	10,0	-	12,0	-	15,0	-	18,0	-

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ULI-P

Fan coil unit for ducted installations

- **Very quiet**
- **Ideal for residential or office solutions**



DESCRIPTION

Monobloc duct type fan coils for heating and/or cooling small and medium-sized environments for civil and commercial use. It can be installed on 2-pipe systems and combined with any heat generator even at low temperatures. Choosing the optimal solution for any requirement is easy thanks to the various versions available and to the possibility of horizontal or vertical installation, depending on the version.

VERSIONS

P Without shell, vertical and horizontal installation, lower intake, without commands

PAF Without shell, vertical and horizontal installation, front intake, without commands

FEATURES

Ventilation group

Centrifugal fans constructed from anti-static plastic with an airfoil design engineered for high efficiency and low noise levels.

Their characteristics permit energy savings compared to conventional fans. They are statically and dynamically balanced and directly coupled to the motor shaft.

The Brushless electric motor with 0-100% continuous speed variation, which allows precise adaptation to the real demands of the internal environment without temperature fluctuations.

The air flow can be continuously changed through a 1-10 V signal, coming from adjustment and control commands Aermec or from independent adjustment systems.

This lowers noise and generates a better response to heat loads and a higher stability in the desired temperature inside the room.

The high efficiency even with low speed, makes it possible to reduce power consumption (more than 50% less than fan coils with traditional motors).

The plastic augers are extractable for easy and efficient cleaning.

Finned pack heat exchanger

With copper pipes and aluminium louvers, the main heat exchanger has female gas water connections on the left side and the manifolds have air vents.

The coil is not suitable for use in corrosive atmosphere or in environments where aluminium may be subject to corrosion.

- *The hydraulic connections can be inverted during installation.*

Condensate drip

Provided standard in plastic and fixed to the interior structure; with external condensate discharge.

Air filter

The fan coil units are equipped with a standard air filter. For specific details, please refer to the unit's documentation.

ACCESSORIES

Control panels

AER503IR: Flush-mounting thermostat with backlit display, capacitive keypad and infrared receiver, for controlling both brushless fan coils and those with an asynchronous motor. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices (Cold Plasma and germicidal lamp), with radiant plate or with FCZ-D twin delivery (Dualjet). In addition, it can control systems with radiant panels or mixed (fan coil and radiant floor) systems. Being equipped with an infrared receiver, it can, in turn, be controlled by the VMF-IR remote control.

PRO503: Wall box for AER503IR and VMF-E4 thermostats.

SA5: air probe kit (L = 15 m) with probe-locking cable grommet.

SA503: Wall-mountable ambient sensor, compatible with AER503IR.

SW5: water probe kit (L = 15m) with probe-holder connection point, fixing clip and probe-holder from heat exchanger.

TX: Wall-mounting thermostat for controlling either brushless fan coils or those with asynchronous motors for 2/4 pipe. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices, radiant plate or FCZ-D twin delivery (Dualjet).

AerSuite

The AerSuite application is used to remotely control the DI24 user interface, with VMF-E19/VMF-E19I thermostats, using Smart Devices with iOS and Android operating systems.

This is an application for Smartphones and Tablets with which the user can access and control the system operation remotely.

For more information about the use of the application and the available functions, refer to the respective documentation on the website.

VMF system

DI24: Flush-mounted interface (503 box) with 2.4" touch screen display to be combined with VMF-E19, VMF-E19I accessories. It allows you to regulate and monitor the temperature inside rooms precisely and on time; in addition to accessing and interacting with your system's operating information, parameters and alarms, it allows you to set time slots. Thanks to its Wi-Fi connection, DI24 in combination with the AerSuite APP (available for Android and iOS) can also be remotely controlled. All programming and most functions are done in a simple and intuitive way using the APP. To allow for customization of the interface so that it seamlessly integrates with the style of any home, DI24 is compatible with switch plates from major brands available on the market. For more information, please refer to our documentation. However, a switch plate with its graphite gray support, DI24CP, is also available as a separate accessory in our catalog.

DI24CP: Complete flush-mounted interface plate with support for DI24, Vimar brand, Arké series, graphite gray color.

VMF-E19I: Thermostat for inverter unit to be fixed on the side of the fan coil, fitted as standard with an air and water probe.

VMF-E3: Wall mounted user interface, to be combined with accessories VMF-E19, VMF-E19I, with grids GLF_N/M and GLL_N, can be controlled with VMF-IR control.

VMF-E4DX: Wall-mounted user interface. Grey front panel PANTONE 425C (METAL).

VMF-E4X: Wall-mounted user interface. Light grey front panel PANTONE COOL GRAY 1C.

VMF-IO: Manage the unit exclusively from a centralized VMF control panel without area control panel.

VMF-IR: User interface compatible with the AER503IR, VMF-E3 thermostat and with all the grids of cassettes equipped with the infrared receiver compatible with the VMF system.

ACCESSORIES COMPATIBILITY

Control panels and dedicated accessories - Omnia ULP

Accessory	ULI16P	ULI16PAF	ULI26P	ULI26PAF	ULI36P	ULI36PAF
AER503IR	*	*	*	*	*	*
PRO503	*	*	*	*	*	*
SA5	*	*	*	*	*	*
SA503	*	*	*	*	*	*
SW5	*	*	*	*	*	*
TX	*	*	*	*	*	*

VMF system - Omnia ULP

Accessory	ULI16P	ULI16PAF	ULI26P	ULI26PAF	ULI36P	ULI36PAF
DI24	*	*	*	*	*	*
DI24CP	*	*	*	*	*	*
VMF-E19I	*	*	*	*	*	*
VMF-E3	*	*	*	*	*	*
VMF-E4DX	*	*	*	*	*	*
VMF-E4X	*	*	*	*	*	*
VMF-IO	*	*	*	*	*	*
VMF-IR	*	*	*	*	*	*
VMF-LON	*	*	*	*	*	*
VMF-SW	*	*	*	*	*	*
VMHI	*	*	*	*	*	*

Condensate drip

Accessory	ULI16P	ULI16PAF	ULI26P	ULI26PAF	ULI36P
BC10	*	*	*	*	*
BC20	*	*	*	*	*

Condensate drainage

Accessory	ULI16P	ULI16PAF	ULI26P	ULI26PAF	ULI36P
DSCS (1)	*	*	*	*	*

(1) The accessory cannot be fit if the accessory BC10 or BC20 is installed.

2 way valve kit

Accessory	ULI16P	ULI16PAF	ULI26P	ULI26PAF	ULI36P
VCHD	*	*	*	*	*

3 way valve kit

Accessory	ULI16P	ULI16PAF	ULI26P	ULI26PAF	ULI36P
VCH	*	*	*	*	*

VMF-LON: Expansion allowing the thermostat to interface with BMS systems that use the LON protocol.

VMF-SW: Water probe (L = 2.5m) used if required in place of the standard unit supplied with the VMF-E19 and VMF-E19I thermostats for mounting it upstream of the valve.

VMHI: The VMHI panel can be used as a user interface for VMF-E19/E19I thermostats, GLFxN/M or GLLxN grids, or as an interface for the MZC system. What determines the function to be performed by the user interface is determined by its correct parametrisation and by following the electrical connections between interface and thermostat or interface and plenum.

Common accessories

DSC: Condensate drainage device.

VCH: 3-way motorised valve kit. The kit consists of a valve, an actuator and the relative pipe fittings. It can be installed on fan coils with both right and left connections.

VCHD: 2-way motorised valve kit. The kit consists of a valve, an actuator and the relative pipe fittings.

BC: Condensate drip.

GUIDE TO SELECTING THE POSSIBLE CONFIGURATIONS

Omnia ULP

Field	Description
1,2,3	ULI
4,5	Size 16, 26, 36
6	Version
P	Without shell, vertical and horizontal installation, lower intake, without commands
PAF	Without shell, vertical and horizontal installation, front intake, without commands

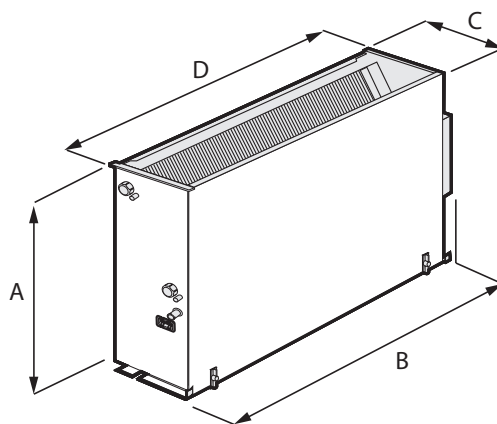
PERFORMANCE SPECIFICATIONS

2-pipe

		ULI16P			ULI26P			ULI36P		
		1	2	3	1	2	3	1	2	3
		L	M	H	L	M	H	L	M	H
Heating performance 70 °C / 60 °C (1)										
Heating capacity	kW	1,54	2,12	2,91	2,89	3,83	4,62	3,53	4,87	5,94
Water flow rate system side	l/h	135	186	255	254	336	405	310	427	521
Pressure drop system side	kPa	1	2	4	5	8	11	3	5	7
Heating performance 45 °C / 40 °C (2)										
Heating capacity	kW	0,76	1,05	1,44	1,44	1,90	2,29	1,75	2,42	2,95
Water flow rate system side	l/h	133	183	251	249	331	399	305	420	513
Pressure drop system side	kPa	2	2	2	5	8	11	7	12	18
Cooling performance 7 °C / 12 °C										
Cooling capacity	kW	0,69	0,87	1,77	1,26	1,65	1,99	1,63	2,26	2,79
Sensible cooling capacity	kW	0,52	0,69	0,96	0,97	1,30	1,61	1,13	1,59	2,00
Water flow rate system side	l/h	122	153	206	220	289	349	286	394	487
Pressure drop system side	kPa	2	3	5	6	8	11	7	13	19
Fan										
Type	type	Centrifugal			Centrifugal			Centrifugal		
Fan motor	type	Inverter			Inverter			Inverter		
Number	no.	1			2			2		
Air flow rate	m³/h	110	160	240	190	270	350	240	350	460
Input power	W	6	8	12	7	10	15	8	12	18
Diameter hydraulic fittings										
Main heat exchanger	Ø	1/2"			1/2"			1/2"		
Finned pack heat exchanger										
Water content main heat exchanger	l	0,4			0,6			0,8		
Power supply										
Power supply		230V~50Hz			230V~50Hz			230V~50Hz		

(1) Room air temperature 20 °C d.b.; Water (in/out) 70 °C/60 °C
 (2) Room air temperature 20 °C d.b.; Water (in/out) 45 °C/40 °C; EUROVENT

DIMENSIONS



Dimensions and weights

		ULI16P	ULI16PAF	ULI26P	ULI26PAF	ULI36P	ULI36PAF
Dimensions and weights							
A	mm	465	465	465	465	465	465
B	mm	530	530	761	761	981	981
C	mm	171	171	171	171	171	171
D	mm	470	470	701	701	921	921
Net weight	kg	12,0	12,0	15,0	15,0	18,0	18,0

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Omnia ULSI_P



- **Low operating temperature**
- **Cooling, heating, and dehumidification**

Fan coils wall-mount installation



DESCRIPTION

The Omnia Slim P fan coils have been designed to meet the need to combine the typical features of a classic radiator - namely reduced depth and quiet operation - with the ability of a fan coil to air-condition rooms throughout the year.

Can be installed in 2-pipe systems and used in combination with any heat generator, even at low temperatures.

VERSIONS

P Inverter in venticassafoma

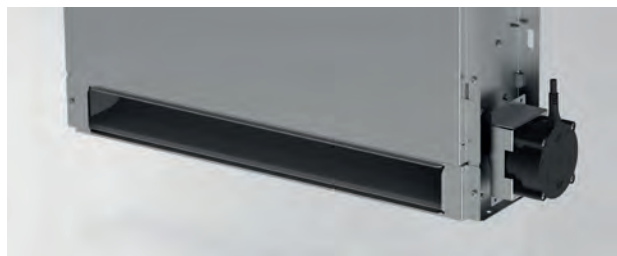
PR Inverter for ducted installation with right-hand connections

FEATURES

Ventilation group

These fan coils have extremely silent ventilation by using special tangential fans, which guarantees maximum acoustic comfort.

The electric motor is a new generation Brushless with built-in driver and IP66 protection rating, continuously variable speed



Finned pack heat exchanger

With copper pipes and aluminium louvers, the main heat exchanger has female gas water connections and the manifolds have air vents.

The coil is not suitable for use in corrosive atmosphere or in environments where aluminium may be subject to corrosion.

- *The coil is reversible during selection.*

Control

Both versions are supplied without on-board control, however, various thermostats or control panels are available as accessories to be installed on the wall.

Mandatory venticassafoma ULS_CH accessory

Available in 5 sizes.

Made of galvanised and painted sheet metal, they provide a space for housing the heat exchanger directly in the wall.

Rationalising spaces according to the criteria of modern interior architecture and current energy-saving requirements.



ACCESSORIES

Control panels and dedicated accessories

AER503IR: Flush-mounting thermostat with backlit display, capacitive keypad and infrared receiver, for controlling both brushless fan coils and those with an asynchronous motor. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices (Cold Plasma and germicidal lamp), with radiant plate or with FCZ-D twin delivery (Dualjet). In addition, it can control systems with radiant panels or mixed (fan coil and radiant floor) systems. Being equipped with an infrared receiver, it can, in turn, be controlled by the VMF-IR remote control.

PRO503: Wall box for AER503IR and VMF-E4 thermostats.

SA5: air probe kit (L = 15 m) with probe-locking cable grommet.

SW5: water probe kit (L = 15m) with probe-holder connection point, fixing clip and probe-holder from heat exchanger.

TX: Wall-mounting thermostat for controlling either brushless fan coils or those with asynchronous motors for 2/4 pipe. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices, radiant plate or FCZ-D twin delivery (Dualjet).

AerSuite

The AerSuite application is used to remotely control the DI24 user interface, with VMF-E19/VMF-E19I thermostats, using Smart Devices with iOS and Android operating systems.

This is an application for Smartphones and Tablets with which the user can access and control the system operation remotely.

For more information about the use of the application and the available functions, refer to the respective documentation on the website.



VMF Components

DI24: Flush-mounted interface (503 box) with 2.4" touch screen display to be combined with VMF-E19, VMF-E19I accessories. It allows you to regulate and monitor the temperature inside rooms precisely and on time; in addition to accessing and interacting with your system's operating information, parameters and alarms, it allows you to set time slots. Thanks to its Wi-Fi connection, DI24 in combination with the AerSuite APP (available for An-

droid and iOS) can also be remotely controlled. All programming and most functions are done in a simple and intuitive way using the APP. To allow for customization of the interface so that it seamlessly integrates with the style of any home, DI24 is compatible with switch plates from major brands available on the market. For more information, please refer to our documentation. However, a switch plate with its graphite gray support, DI24CP, is also available as a separate accessory in our catalog.

VMF-485EXP: Not available for VMF-E6.

VMF-E19I: Thermostat for inverter unit to be fixed on the side of the fan coil, fitted as standard with an air and water probe.

VMF-E2S: User interface on the fan coil, with two selectors - one for temperature and the other for speed control. For operation, the installation of either the VMF-E19 or VMF-E19I accessory is required.

VMF-E3: Wall mounted user interface, to be combined with accessories VMF-E19, VMF-E19I, with grids GLF_N/M and GLL_N, can be controlled with VMF-IR control.

VMF-E4DX: Wall-mounted user interface. Grey front panel PANTONE 425C (METAL).

VMF-E4X: Wall-mounted user interface. Light grey front panel PANTONE COOL GRAY 1C.

VMF-IR: User interface compatible with the AER503IR, VMF-E3 thermostat and with all the grids of cassettes equipped with the infrared receiver compatible with the VMF system.

VMHI: The VMHI panel can be used as a user interface for VMF-E19/E19I thermostats, GLFxN/M or GLLxN grids, or as an interface for the MZC system. What determines the function to be performed by the user interface is determined by its correct parametrisation and by following the electrical connections between interface and thermostat or interface and plenum.

Common accessories

BCSV: Condensate collection tray, for valve kit.

DSC7: Condensate drainage device.

VCS2: 2-way motorised valve kit without insulating shell. The kit is made up of a valve, actuator and relative hydraulic fittings.

VCS3: 3-way motorised valve kit without insulating shell for the main coil. The kit is made up of a valve with its insulating shell, actuator and relative hydraulic fittings.

ACCESSORIES COMPATIBILITY

Model	Ver	10	20	30	40	50
AER503IR (1)	P,PR	*	*	*	*	*
PRO503	P,PR	*	*	*	*	*
SAS (2)	P,PR	*	*	*	*	*
SW5 (2)	P,PR	*	*	*	*	*
TX (3)	P,PR	*	*	*	*	*

(1) Wall-mount installation.

(2) Probe for AER503IR-TX thermostats, if fitted.

(3) Wall-mounting. If the unit intake exceeds 0.7A, or several units need to be managed with a single thermostat, board SIT3 and/or SIT5 is required.

VMF system

Model	Ver	10	20	30	40	50
DI24	P,PR	*	*	*	*	*
KITSV (1)	P,PR	*	*	*	*	*
VMF-E19I (2)	P,PR	*	*	*	*	*
VMF-E2S (3)	P,PR	*	*	*	*	*
VMF-E3	P,PR	*	*	*	*	*
VMF-E4X	P,PR	*	*	*	*	*
VMF-IR	P,PR	*	*	*	*	*
VMHI	P,PR	*	*	*	*	*

(1) Mandatory when the VMF-E19/19I thermostat is required.

(2) Mandatory accessory.

(3) Installation on the fan coil.

3 way valve kit

Model	Ver	10	20	30	40	50
VCS3 (1)	P,PR	*	*	*	*	*

(1) Power supply 230V - Hydraulic connections Ø 1/2"

2 way valve kit

Model	Ver	10	20	30	40	50
VCS2 (1)	P,PR	*	*	*	*	*

(1) Power supply 230V - Hydraulic connections Ø 1/2"

Condensate drip

Model	Ver	10	20	30	40	50
BCSV	P,PR	*	*	*	*	*

Condensate drainage

Model	Ver	10	20	30	40	50
DSC7	PPR	.	.	.	.	.

PERFORMANCE SPECIFICATIONS

2-pipe

	ULSI10P			ULSI20P			ULSI30P			ULSI40P			ULSI50P		
	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H

Heating performance 70 °C / 60 °C (1)

Heating capacity	kW	0,70	1,14	1,53	1,27	1,88	2,86	1,88	2,91	3,72	2,32	3,55	4,77	2,49	3,85	5,73
Water flow rate system side	l/h	61	100	134	111	165	251	165	254	326	203	311	418	218	337	501
Pressure drop system side	kPa	2	4	7	5	10	20	6	14	22	6	13	22	5	10	21

Heating performance 45 °C / 40 °C (2)

Heating capacity	kW	0,35	0,57	0,76	0,63	0,94	1,43	0,94	1,45	1,85	1,15	1,77	2,38	1,24	1,92	2,85
Water flow rate system side	l/h	61	99	132	110	163	248	163	251	322	201	307	413	216	333	495
Pressure drop system side	kPa	2	4	7	5	9	20	6	14	22	6	13	22	5	10	21

Cooling performance 7 °C / 12 °C

Cooling capacity	kW	0,37	0,60	0,80	0,67	0,98	1,50	0,98	1,52	1,95	1,22	1,86	2,50	1,30	2,02	3,00
Sensible cooling capacity	kW	0,25	0,42	0,57	0,46	0,68	1,08	0,68	1,06	1,39	0,84	1,30	1,79	0,90	1,40	2,15
Water flow rate system side	l/h	63	103	137	114	169	257	169	261	335	209	319	429	224	346	515
Pressure drop system side	kPa	3	6	10	7	13	28	9	19	30	9	18	30	7	14	29

Fan

Type	type	Tangential			Tangential			Tangential			Tangential			Tangential		
Fan motor	type	Inverter			Inverter			Inverter			Inverter			Inverter		
Number	no.	1			1			1			2			2		
Air flow rate	m³/h	46	82	134	78	128	241	109	188	301	126	218	370	127	225	427
Input power	W	5	8	10	6	9	15	7	12	17	7	14	20	7	13	21
Signal 0-10V	%	40	70	90	40	70	90	40	70	90	40	70	90	40	70	90

Fan coil sound data (3)

Sound power level	dB(A)	39,0	47,0	51,0	39,0	47,0	51,0	40,0	48,0	53,0	41,0	49,0	54,0	42,0	52,0	56,0
Sound pressure level	dB(A)	31,0	39,0	43,0	31,0	39,0	43,0	32,0	40,0	45,0	33,0	41,0	46,0	34,0	44,0	48,0

Finned pack heat exchanger

Water content main heat exchanger	l	0,5			0,9			1,2			1,5			1,8		
-----------------------------------	---	-----	--	--	-----	--	--	-----	--	--	-----	--	--	-----	--	--

Diameter hydraulic fittings

Main heat exchanger	Ø	1/2"			1/2"			1/2"			1/2"			1/2"		
---------------------	---	------	--	--	------	--	--	------	--	--	------	--	--	------	--	--

Power supply

Power supply		230V~50Hz			230V~50Hz			230V~50Hz			230V~50Hz			230V~50Hz		
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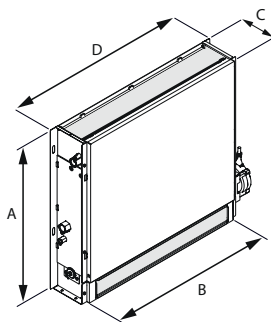
(1) Room air temperature 20 °C d.b.; Water (in/out) 70 °C/60 °C

(2) Room air temperature 20 °C d.b.; Water (in/out) 45 °C/40 °C; EUROVENT

(3) Aermec determines the sound power value on the basis of measurements taken in accordance with standard UNI EN 16583:15, respecting the Eurovent certification.

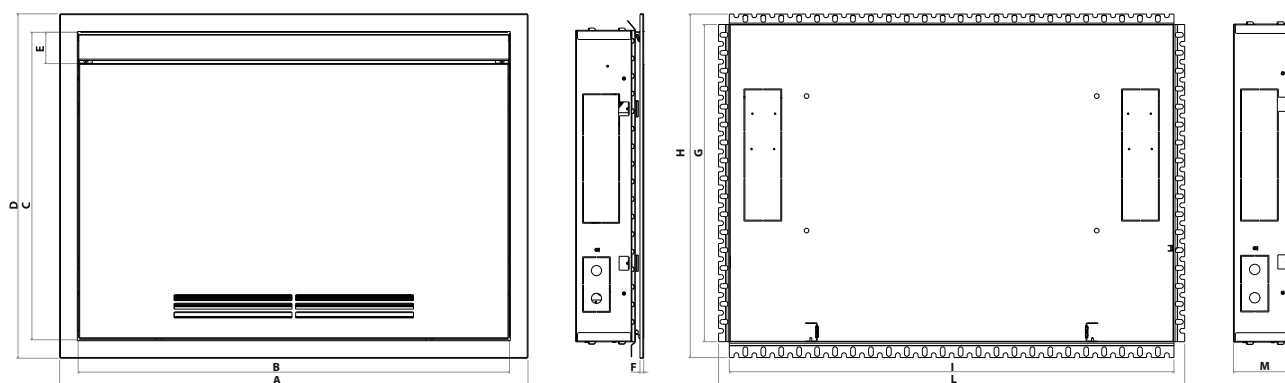
DIMENSIONS

ULSI_P



Size			10	20	30	40	50
Dimensions and weights							
A	P,PR	mm	130	130	130	130	130
B	P,PR	mm	745	940	1134	1328	1524
C	P,PR	mm	580	580	580	580	580
D	P,PR	mm	80	80	80	80	80
Empty weight	P,PR	kg	11	13	15	17	19

ULS_CH



		ULS10CH	ULS20CH	ULS30CH	ULS40CH	ULS50CH
Dimensions and weights						
A	mm	818	1013	1206	1401	1596
B	mm	738	933	1126	1321	1516
C	mm	665	665	665	665	665
D	mm	745	745	745	745	745
E	mm	67	67	67	67	67
F	mm	8	8	8	8	8
G	mm	672	672	672	672	672
H	mm	728	728	728	728	728
I	mm	747	942	1135	1330	1525
L	mm	793	988	1181	1376	1571
M	mm	129	129	129	129	129

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VED 030-340

Fan coil unit for ducted installations

- Horizontal and vertical installation
- Large range of available static pressure
- Inspectable ventilation group



DESCRIPTION

Ducted fan coil, for heating, cooling and dehumidifying. Designed to maintain the set temperature over time, ensuring very low sound levels.

Can be installed in any 2/4 pipe system and operates with any heat generator even at low temperatures.

Thanks to the availability of various options, with standard or increased coil, for horizontal or vertical installation, it is easy to choose the optimal solution for any need.

FEATURES

Case

Unit for internal installation.

Internally insulated structure with class 1 fire resistance and IP20 protection.

Ventilation group

Centrifugal fans in anti-static plastic material with aerofoil profile designed to achieve high airflows and pressures whilst at the same time producing low noise.

Their characteristics permit energy savings compared to conventional fans.

They are statically and dynamically balanced and directly coupled to the motor shaft.

The electric motor is single-phase multi-speed (3 selectable), mounted on anti-vibration supports and with a permanently inserted capacitor.

Fan housing in plastic material removable for easy and effective cleaning.

Finned pack heat exchanger

With copper pipes and aluminium louvers, the main heat exchanger has female gas water connections on the left side and the manifolds have air vents.

The coil is not suitable for use in corrosive atmosphere or in environments where aluminium may be subject to corrosion.

■ *The hydraulic connections can be inverted during installation.*

Air filter

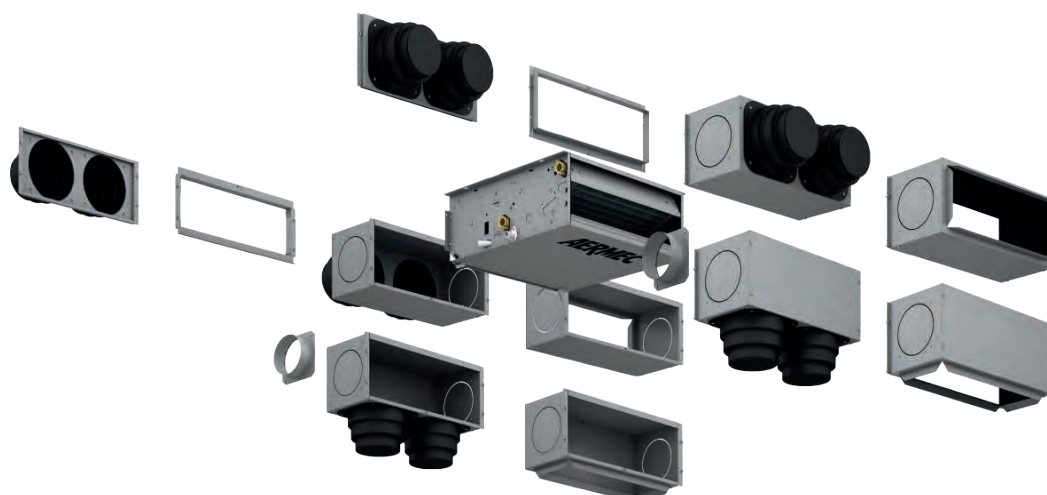
Coarse 25% Class air filter, easy to remove and clean.

Controls and Accessoires

There is a wide selection of controls and a huge choice of accessories, to meet every system requirement.

The unit is supplied with the delivery connection supplied.

ACCESSORIES



Control panels

AER503IR: Flush-mounting thermostat with backlit display, capacitive keypad and infrared receiver, for controlling both brushless fan coils and those with an asynchronous motor. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices (Cold Plasma and germicidal lamp), with radiant plate or with FCZ-D twin delivery (Dualjet). In addition, it can control systems with radiant panels or mixed (fan coil and radiant floor) systems. Being equipped with an infrared receiver, it can, in turn, be controlled by the VMF-IR remote control.

PRO503: Wall box for AER503IR and VMF-E4 thermostats.

SA5: air probe kit (L = 15 m) with probe-locking cable grommet.

SIT3: Thermostat Interface Card allowing the creation of a network of fan coils (max. 10) commanded by a central control panel (selector or thermostat). Commands the 3 fan speeds and must be installed on each fan coil within the network; receives the commands from the selector or the SIT5 card. In case you decide to install Aermec thermostats and current absorbed by the unit exceeds 0.7 A, you're obliged to include SIT3 accessory.

SIT5: Thermostat Interface Card allowing the creation of a network of fan coils (max. 10) commanded by a central control panel. Commands the 3 fan speeds and up to 2 valves (four pipe systems); sends the thermostat's commands to the fan coil network.

SW3: Water probe (L = 2.5 m) for controlling the minimum and maximum and to allow automatic seasonal switching for electronic thermostats fitted with water side changeover.

SW5: water probe kit (L = 15m) with probe-holder connection point, fixing clip and probe-holder from heat exchanger.

TX: Wall-mounting thermostat for controlling either brushless fan coils or those with asynchronous motors for 2/4 pipe. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices, radiant plate or FCZ-D twin delivery (Dualjet).

WMT10: Electronic thermostat, white, with thermostated or continuous ventilation.

WMT16: Electronic thermostat with thermostated ventilation.

WMT16CV: Electronic thermostat with continuous ventilation.

AerSuite

The AerSuite application is used to remotely control the DI24 user interface, with VMF-E19/VMF-E19I thermostats, using Smart Devices with iOS and Android operating systems.

This is an application for Smartphones and Tablets with which the user can access and control the system operation remotely.

For more information about the use of the application and the available functions, refer to the respective documentation on the website.



VMF Components

DI24: Flush-mounted interface (503 box) with 2.4" touch screen display to be combined with VMF-E19, VMF-E19I accessories. It allows you to regulate and monitor the temperature inside rooms precisely and on time; in addition to accessing and interacting with your system's operating information, parameters and alarms, it allows you to set time slots. Thanks to its Wi-Fi connection, DI24 in combination with the AerSuite APP (available for Android and iOS) can also be remotely controlled. All programming and most functions are done in a simple and intuitive way using the APP. To allow for customization of the interface so that it seamlessly integrates with the style of any home, DI24 is compatible with switch plates from major brands available on the market. For more information, please refer to our documentation. However, a switch plate with its graphite gray support, DI24CP, is also available as a separate accessory in our catalog.

VMF-E19: Thermostat to be secured to the side of the fan coil, fitted as standard with an air probe and a water probe.

VMF-E3: Wall mounted user interface, to be combined with accessories VMF-E19, VMF-E19I, with grids GLF_N/M and GLL_N, can be controlled with VMF-IR control.

VMF-E4DX: Wall-mounted user interface. Grey front panel PANTONE 425C (METAL).

VMF-E4X: Wall-mounted user interface. Light grey front panel PANTONE COOL GRAY 1C.

VMF-IO: Manage the unit exclusively from a centralized VMF control panel without area control panel.

VMF-IR: User interface compatible with the AER503IR, VMF-E3 thermostat and with all the grids of cassettes equipped with the infrared receiver compatible with the VMF system.

VMF-SIT3V: Relay interface board. Mandatory accessory on units where motor absorption exceeds 0.7 A. The relay interface board is supplied with a 2A fuse to protect the fan coil. If the fan coil absorbs more than 2A and up to 4A, the fuse inside must be replaced with a 4A fuse supplied.

VMF-SW: Water probe (L = 2.5m) used if required in place of the standard unit supplied with the VMF-E19 and VMF-E19I thermostats for mounting it upstream of the valve.

VMF-SW1: Additional water probe (L = 2.5m) to be used if required for 4-pipe systems with the VMF-E19 and VMF-E19I thermostats for maximum control in the cold range

VMHI: The VMHI panel can be used as a user interface for VMF-E19/E19I thermostats, GLFxN/M or GLLxN grids, or as an interface for the MZC system. What determines the function to be performed by the user interface is determined by its correct parametrisation and by following the electrical connections between interface and thermostat or interface and plenum.

Valves and additional water coil

BV: Hot water heat exchanger with 1 row.

VCF_X: 3-way valve kit for fan coils with single heat exchanger and hydraulic connections on the left side, for installation in 4-pipe systems. The kit is composed by 2 insulated 3-way valves and 4 connections complete with electrothermal actuators, insulating shells for the valves and with hydraulic fittings. 230V power supply. Hydraulic connections: Valve body Ø G 3/4" Male; Valve side connection pipes Ø G 3/4" Female; Unit side connection pipes Ø G 3/4" Male.

VCF41 - 42 - 43 - for main heat exchanger: 3-way motorised valve kit for the main coil. The kit is made up of a valve with its insulating shell, actuator and relative hydraulic fittings. It can be installed on fan coils with both right and left connections. If the valve is combined with the BCZ5 or BCZ6 condensate drain pan, to ensure a better housing it is possible to remove the insulating shell.

VCF44 - 45 - for secondary heat exchanger: The 3-way motorised valve kit for the secondary coil heat only. The kit consists of a valve with its insulating shell, actuator and relevant water fittings; it is suitable to be installed on the fan coils with right and left water connections.

VCFD: Motorized 2-way valve kit without insulating shell, can be installed on the main or secondary battery or a battery that is only warm. The kit is made up of a valve, actuator and relative hydraulic fittings. It can be installed on fan coils with connections on the right and on the left.

VJP: Control and balancing combination valve for 2 and 4 pipe systems to install outside the unit, supplied without fittings and hydraulic components.

The valve, which can guarantee a constant water flow rate in the terminal, within its operating range.

Installation accessories

AMP: Wall mounting kit

BCZ: Condensate drip. If the valve is paired with the BCZ5 or BCZ6 condensate drip tray, the insulating shell can be removed to ensure better housing.

DSC: Condensate drainage device.

Accessories for intake

GA: Intake grid with fixed louvers

GAF: Intake grid with filter and fixed louvers

SE_X: External air shutter with manual control.

RDA_V: Straight intake connection with rectangular flange.

RDA_C: Straight intake connection with circular flanges.

RPA_V: Suction plenum with rectangular flange; both sides have a circular push-out Ø 150mm that can be removed.

PA_V: Suction plenum with circular plastic flanges; both sides have a circular push-out Ø 150mm that can be removed.

Delivery accessories

MZC: Plenum with motorised dampers.

MZCAC: Mandatory electrical system for connecting the MZC plenum with a fan coil fitted with an asynchronous motor.

MZCACV: Electrical system with relay interface board. Mandatory accessory on units where motor absorption exceeds 0.7 A. The relay interface board is supplied with a 2A fuse to protect the fan coil. If the fan coil absorbs more than 2A and up to 4A, the fuse inside must be replaced with a 4A fuse supplied.

GM: Flow grid with adjustable louvers.

PM_V: Internally insulated delivery plenum with circular flanges; both sides have a circular push-out Ø 150mm that can be removed.

RPM_V: Internally insulated delivery plenum with rectangular flange; both sides have a circular push-out Ø 150mm that can be removed.

RDM_C: Straight discharge internally insulated, with circular flanges.

RDM_V: Straight delivery coupling in galvanised sheet metal.

KFV: Circular flanges kit for plenum.

ACCESSORIES COMPATIBILITY

Control panels and dedicated accessories

Model	Ver	030	040	130	140	230	240	330	340
AERS03IR (1)	.	*	*	*	*	*	*	*	*
PRO503	.	*	*	*	*	*	*	*	*
SA5 (2)	.	*	*	*	*	*	*	*	*
SIT3 (3)	.	*	*	*	*	*	*	*	*
SIT5 (4)	.	*	*	*	*	*	*	*	*
SW3 (2)	.	*	*	*	*	*	*	*	*
SW5 (2)	.	*	*	*	*	*	*	*	*
TX (5)	.	*	*	*	*	*	*	*	*
WMT10 (5)	.	*	*	*	*	*	*	*	*
WMT16 (5)	.	*	*	*	*	*	*	*	*
WMT16CV (5)	.	*	*	*	*	*	*	*	*

(1) Wall-mount installation.

(2) Probe for AERS03IR-TX thermostats, if fitted.

(3) Cards for AERS03IR-TX thermostats, if present, to be installed if the unit absorption exceeds 0,7 Ampere.

(4) Probe for AERS03IR-TX thermostats, if fitted.

(5) Wall-mounting. If the unit intake exceeds 0.7A, or several units need to be managed with a single thermostat, board SIT3 and/or SIT5 is required.

VMF system

Model	Ver	030	040	130	140	230	240	330	340
DI24	.	*	*	*	*	*	*	*	*
VMF-E19 (1)	.	*	*	*	*	*	*	*	*
VMF-E3	.	*	*	*	*	*	*	*	*
VMF-E4DX	.	*	*	*	*	*	*	*	*
VMF-E4X	.	*	*	*	*	*	*	*	*
VMF-I0	.	*	*	*	*	*	*	*	*
VMF-IR	.	*	*	*	*	*	*	*	*
VMF-SIT3V (2)	.	*	*	*	*	*	*	*	*
VMF-SW	.	*	*	*	*	*	*	*	*
VMF-SW1	.	*	*	*	*	*	*	*	*
VMHI	.	*	*	*	*	*	*	*	*

(1) Also the accessory VMF-SIT3V is mandatory if the unit exceeds 0.7 Amperes.

(2) For the selection, consult the documentation for the thermostat and the fan coil.

(Heating only) additional coil

Ver	030	040	130	140	230	240	330	340
.	BV030 (1)	-	BV130 (1)	-	BV230 (1)	-	BV162 (1)	-

(1) Not available for sizes with oversized main coil.
The accessory cannot be fitted on the configurations indicated with -

Water valves**Valve Kit for 4 pipe systems with main coil**

Accessory	VED030	VED040	VED130	VED140	VED230	VED240	VED330	VED340
VCF3X4L	*	*	*		*		*	*
VCF3X4LS				*		*		
VCF3X4R	*	*	*		*		*	*
VCF3X4RS				*		*		

3 way valve kit

	VED030	VED040	VED130	VED140	VED230	VED240	VED330	VED340
3 way valve kit								
Main heat exchanger	VCF43-VCF4324	VCF43-VCF4324	VCF43-VCF4324	VCF43S-VCF4324S	VCF43-VCF4324	VCF43S-VCF4324S	VCF43-VCF4324	VCF43-VCF4324
Additional coil "BV"	VCF45-VCF4524	-	VCF45-VCF4524	-	VCF45-VCF4524	-	VCF45-VCF4524	-

VCF43 - 4S Power supply 230V, VCF4324-4S24 Power supply 24V - Hydraulic connections Ø 3/4"

2 way valve kit

	VED030	VED040	VED130	VED140	VED230	VED240	VED330	VED340
2 way valve kit								
Main heat exchanger	VCFD3-VCFD324	VCFD3-VCFD324	VCFD3-VCFD324	VCFD3-VCFD324	VCFD3-VCFD324	VCFD3-VCFD324	VCFD3-VCFD324	VCFD3-VCFD324
Additional coil "BV"	VCFD4-VCFD424	-	VCFD4-VCFD424	-	VCFD4-VCFD424	-	VCFD4-VCFD424	-

VCFD3 Power supply 230V, VCFD324 Power supply 24V - Hydraulic connections Ø 3/4"
VCFD4 Power supply 230V, VCFD424 Power supply 24V - Hydraulic connections Ø 1/2"; For additional coil (heating only) BV.

Combined adjustment and balancing valve cold side

Accessory	VED030	VED040	VED130	VED140	VED230	VED240	VED330	VED340
VJP060	*	*	*	*				
VJP060M	*	*	*	*				
VJP090					*	*	*	*
VJP090M					*	*	*	*
VJP150							*	*
VJP150M							*	*

Installation accessories

Accessory	VED030	VED040	VED130	VED140	VED230	VED240	VED330	VED340
AMP	*	*	*	*	*	*	*	*

Condensate drip

Accessory	VED030	VED040	VED130	VED140	VED230	VED240	VED330	VED340
BC24	*	*	*	*	*	*	*	*
BC26	*	*	*	*	*	*	*	*
Accessory	VED030	VED040	VED130	VED140	VED230	VED240	VED330	VED340
BC9	*	*	*	*	*	*	*	*

BC24 For vertical installation.
BC26 For horizontal installation.
BC9 For horizontal installation.

Condensate recirculation device

Accessory	VED030	VED040	VED130	VED140	VED230	VED240	VED330	VED340
DSC4	*	*	*	*	*	*	*	*
DSC24	*	*	*	*	*	*	*	*

Accessories for intake**Intake grids**

Ver	030	040	130	140	230	240	330	340
.	GA22	GA22	GA32	GA32	GA42	GA42	GA62	GA62

Intake grid with filter and fixed louvers

Ver	030	040	130	140	230	240	330	340
.	GAF22	GAF22	GAF32	GAF32	GAF42	GAF42	GAF62	GAF62

External air shutter with manual control

Ver	030	040	130	140	230	240	330	340
.	SE20X	SE20X	SE30X	SE30X	SE40X	SE40X	SE80X	SE80X

Intake straight with rectangular flanges

Ver	030	040	130	140	230	240	330	340
.	RDA000V	RDA000V	RDA100V	RDA100V	RDA200V	RDA200V	RDA300V	RDA300V

Intake straight internally insulated, with circular flanges

Ver	030	040	130	140	230	240	330	340
.	RDAC000V	RDAC000V	RDAC100V	RDAC100V	RDAC200V	RDAC200V	RDAC300V	RDAC300V

Intake plenum with rectangular flanges

Ver	030	040	130	140	230	240	330	340
.	RPA000V	RPA000V	RPA100V	RPA100V	RPA200V	RPA200V	RPA300V	RPA300V

Intake plenum with circular flanges

Ver	030	040	130	140	230	240	330	340
.	PA000V	PA000V	PA100V	PA100V	PA200V	PA200V	PA300V	PA300V

Delivery accessories**Plenum with motor-driven dampers**

Ver	030	040	130	140	230	240	330	340
.	MZC220	MZC220	MZC320	MZC320	MZC530	MZC530	MZC830	MZC830

Electrical system with relays

Ver	030	040	130	140	230	240	330	340
.	MZCACV (1)	MZCACV (1)	MZCACV (1)	MZCACV (1)	MZCACV (1)	MZCACV (1)	MZCACV (1)	MZCACV (1)

(1) It is mandatory to use MZCACV if the intake of the unit combined with the MZC accessory exceeds 0.7 Ampere.

Electric plant

Ver	030	040	130	140	230	240	330	340
.	MZCAC	MZCAC	MZCAC	MZCAC	MZCAC	MZCAC	MZCAC	MZCAC

Flow grid with adjustable louvers

Ver	030	040	130	140	230	240	330	340
.	GM22	GM22	GM32	GM32	GM42	GM42	GM62	GM62

Delivery plenum internally insulated, with circular flanges

Ver	030	040	130	140	230	240	330	340
.	PM000V	PM000V	PM100V	PM100V	PM200V	PM200V	PM300V	PM300V

Delivery plenum internally insulated, with rectangular flanges

Ver	030	040	130	140	230	240	330	340
.	RPM000V	RPM000V	RPM100V	RPM100V	RPM200V	RPM200V	RPM300V	RPM300V

Delivery straight internally insulated, with circular flanges

Ver	030	040	130	140	230	240	330	340
.	RDMC000V	RDMC000V	RDMC100V	RDMC100V	RDMC200V	RDMC200V	RDMC300V	RDMC300V

Straight delivery coupling

Ver	030	040	130	140	230	240	330	340
.	RDM000V	RDM000V	RDM100V	RDM100V	RDM200V	RDM200V	RDM300V	RDM300V

Circular flanges kit for plenum

Accessory	VED030	VED040	VED130	VED140	VED230	VED240	VED330	VED340
KFV10	.	.	.	.	.	.	.	.

PERFORMANCE SPECIFICATIONS

2-pipe

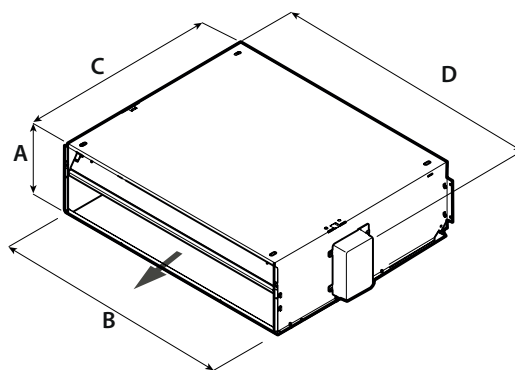
		VED030			VED040			VED130			VED140			VED230			VED240			VED330			VED340		
		1	4	6	1	4	6	1	4	6	1	4	6	1	3	6	1	3	6	1	3	7	1	3	7
		L	M	H	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H
Heating performance 70 °C / 60 °C (1)																									
Heating capacity	kW	1,82	3,37	3,69	2,37	3,57	3,92	4,40	5,83	6,29	4,52	6,09	6,58	5,35	6,50	7,16	5,80	7,14	7,91	7,81	9,34	10,51	8,31	10,02	10,95
Water flow rate system side	l/h	160	296	323	207	313	343	386	512	552	396	534	577	469	570	628	509	626	694	685	819	921	729	878	960
Pressure drop system side	kPa	3	7	9	4	10	12	13	22	26	9	16	18	27	30	37	18	26	32	9	13	16	22	28	32
Heating performance 45 °C / 40 °C (2)																									
Heating capacity	kW	0,90	1,67	1,83	1,18	1,77	1,94	2,18	2,90	3,12	2,24	3,02	3,27	2,66	3,23	3,56	2,88	3,55	3,93	3,88	4,64	5,22	3,98	4,98	5,44
Water flow rate system side	l/h	157	291	318	204	208	338	380	504	543	390	526	568	462	561	618	501	616	683	674	807	907	718	865	945
Pressure drop system side	kPa	3	8	9	5	11	13	15	24	28	10	16	19	26	29	36	18	27	32	10	14	17	13	20	23
Cooling performance 7 °C / 12 °C																									
Cooling capacity	kW	0,97	1,41	1,56	1,10	1,68	1,84	2,05	2,74	2,91	2,24	3,00	3,22	2,55	3,07	3,33	2,86	3,57	3,93	3,62	4,35	4,90	3,92	4,72	5,26
Sensible cooling capacity	kW	0,73	1,07	1,18	0,79	1,19	1,29	1,41	1,89	2,01	1,58	2,14	2,30	1,96	2,38	2,61	2,16	2,65	2,92	2,74	3,26	3,63	2,89	3,50	3,89
Water flow rate system side	l/h	170	250	279	193	296	327	358	480	515	390	525	566	445	538	588	499	624	691	633	760	860	685	824	922
Pressure drop system side	kPa	3	7	9	5	12	14	15	27	31	11	20	23	25	36	44	16	31	37	10	14	18	16	21	26
Fan																									
Type	type	Centrifugal																							
Fan motor	type	Asynchronous																							
Number	no.	1			1			2			2			2			2			3			3		
Air flow rate	m³/h	161	256	285	160	249	277	287	397	433	280	386	420	417	524	590	406	509	570	572	704	805	563	685	775
High static pressure	Pa	21	50	61	21	50	61	26	50	60	26	50	60	32	50	64	32	50	63	33	50	66	34	50	64
Input power	W	23	38	59	23	38	58	34	53	76	34	52	75	43	57	93	43	57	92	63	75	104	63	74	107
Electrical wiring		V1	V4	V6	V1	V4	V6	V1	V4	V6	V1	V4	V6	V1	V3	V6	V1	V3	V6	V1	V3	V7	V1	V3	V7
Duct type fan coil sound data (3)																									
Sound power level (inlet + radiated)	dB(A)	44,0	52,0	54,0	44,0	52,0	54,0	47,0	53,0	55,0	47,0	53,0	55,0	49,0	54,0	57,0	49,0	54,0	57,0	49,0	55,0	58,0	49,0	55,0	58,0
Sound power level (outlet)	dB(A)	40,0	48,0	50,0	40,0	48,0	50,0	42,0	48,0	50,0	42,0	48,0	50,0	44,0	49,0	52,0	44,0	49,0	52,0	45,0	51,0	54,0	45,0	51,0	54,0
Finned pack heat exchanger																									
Water content main heat exchanger	l	0,7			1,0			1,1			1,5			1,5			2,1			1,8			2,3		
Diameter hydraulic fittings																									
Main heat exchanger	Ø	3/4"																							
Power supply																									
Power supply		230V~50Hz																							

(1) Room air temperature 20 °C d.b.; Water (in/out) 70 °C/60 °C

(2) Room air temperature 20 °C d.b.; Water (in/out) 45 °C/40 °C; EUROVENT

(3) Aermec determines the sound power value on the basis of measurements taken in accordance with standard UNI EN 16583:15, respecting the Eurovent certification.

DIMENSIONS



		VED030	VED040	VED130	VED140	VED230	VED240	VED330	VED340
Dimensions and weights									
A	mm	217	217	217	217	217	217	217	217
B	mm	550	550	781	781	1001	1001	1122	1122
C	mm	560	560	560	560	560	560	560	560
D	mm	576	576	807	807	1027	1027	1148	1148

Aermec reserves the right to make any modifications deemed necessary.
All data is subject to change without notice. Aermec does not assume responsibility or liability for errors or omissions.

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VED 030I-340I

Fan coil unit for ducted installations

- **Horizontal and vertical installation**
- **Large range of available static pressure**
- **Inspectable ventilation group**
- **Total comfort: reduced temperature and humidity oscillations**
- **Electricity savings of 50% compared with a fan coil with multi-speed motor**



DESCRIPTION

Ducted fan coil, for heating, cooling and dehumidifying. Designed to maintain the set temperature over time, ensuring very low sound levels. Can be installed in any 2/4 pipe system and operates with any heat generator even at low temperatures. Thanks to the availability of various options, with standard or increased coil, for horizontal or vertical installation, it is easy to choose the optimal solution for any need.

FEATURES

Case

Unit for internal installation. Internally insulated structure with class 1 fire resistance and IP20 protection.

Ventilation group

Centrifugal fans in anti-static plastic material with aerofoil profile designed to achieve high airflows and pressures whilst at the same time producing low noise.

Brushless motor with continuous speed variation 0-100%. Inverter motor allows precise adaptation to the real indoor environment requirements without temperature oscillations.

The air flow can be continuously changed through a 1-10 V signal, coming from adjustment and control commands Aermec or from independent adjustment systems.

This lowers noise and generates a better response to heat loads and a higher stability in the desired temperature inside the room.

The high efficiency even with low speed, makes it possible to reduce power consumption (more than 50% less than fan coils with traditional motors).

Finned pack heat exchanger

With copper pipes and aluminium louvers, the main heat exchanger has female gas water connections on the left side and the manifolds have air vents.

The coil is not suitable for use in corrosive atmosphere or in environments where aluminium may be subject to corrosion.

■ *The hydraulic connections can be inverted during installation.*

Air filter

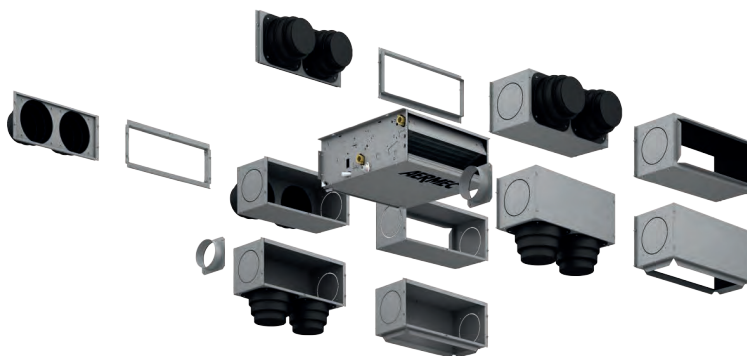
Air filter Class G3, for easy removal and cleaning.

Controls and Accessoires

There is a wide selection of controls and a huge choice of accessories, to meet every system requirement.

The unit is supplied with the delivery connection supplied.

ACCESSORIES



Control panels

AER503IR: Flush-mounting thermostat with backlit display, capacitive keypad and infrared receiver, for controlling both brushless fan coils and those with an asynchronous motor. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices (Cold Plasma and germicidal lamp), with radiant plate or with FCZ-D twin delivery (Dualjet). In addition, it can control systems with radiant panels or mixed (fan coil and radiant floor) systems. Being equipped with an infrared receiver, it can, in turn, be controlled by the VMF-IR remote control.

SA5: air probe kit (L = 15 m) with probe-locking cable grommet.

SW3: Water probe (L = 2.5 m) for controlling the minimum and maximum and to allow automatic seasonal switching for electronic thermostats fitted with water side changeover.

SW5: water probe kit (L = 15m) with probe-holder connection point, fixing clip and probe-holder from heat exchanger.

SWAI: External air or water temperature probe.

TX: Wall-mounting thermostat for controlling either brushless fan coils or those with asynchronous motors for 2/4 pipe. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices, radiant plate or FCZ-D twin delivery (Dualjet).

WMT21: Electronic thermostat for inverter fancoils.

AerSuite

The AerSuite application is used to remotely control the DI24 user interface, with VMF-E19/VMF-E19I thermostats, using Smart Devices with iOS and Android operating systems.

This is an application for Smartphones and Tablets with which the user can access and control the system operation remotely.

For more information about the use of the application and the available functions, refer to the respective documentation on the website.



VMF Components

DI24: Flush-mounted interface (503 box) with 2.4" touch screen display to be combined with VMF-E19, VMF-E19I accessories. It allows you to regulate and monitor the temperature inside rooms precisely and on time; in addition to accessing and interacting with your system's operating information, parameters and alarms, it allows you to set time slots. Thanks to its Wi-Fi connection, DI24 in combination with the AerSuite APP (available for Android and iOS) can also be remotely controlled. All programming and most functions are done in a simple and intuitive way using the APP. To allow for customization of the interface so that it seamlessly integrates with the style of any home, DI24 is compatible with switch plates from major brands available on the market. For more information, please refer to our documen-

tation. However, a switch plate with its graphite gray support, DI24CP, is also available as a separate accessory in our catalog.

VMF-E19I: Thermostat for inverter unit to be fixed on the side of the fan coil, fitted as standard with an air and water probe.

VMF-E3: Wall mounted user interface, to be combined with accessories VMF-E19, VMF-E19I, with grids GLF_N/M and GLL_N, can be controlled with VMF-IR control.

VMF-E4DX: Wall-mounted user interface. Grey front panel PANTONE 425C (METAL).

VMF-E4X: Wall-mounted user interface. Light grey front panel PANTONE COOL GRAY 1C.

VMF-IO: Manage the unit exclusively from a centralized VMF control panel without area control panel.

VMF-IR: User interface compatible with the AER503IR, VMF-E3 thermostat and with all the grids of cassettes equipped with the infrared receiver compatible with the VMF system.

VMF-SW: Water probe (L = 2.5m) used if required in place of the standard unit supplied with the VMF-E19 and VMF-E19I thermostats for mounting it upstream of the valve.

VMF-SW1: Additional water probe (L = 2.5m) to be used if required for 4-pipe systems with the VMF-E19 and VMF-E19I thermostats for maximum control in the cold range

VMHI: The VMHI panel can be used as a user interface for VMF-E19/E19I thermostats, GLFxN/M or GLLxN grids, or as an interface for the MZC system. What determines the function to be performed by the user interface is determined by its correct parametrisation and by following the electrical connections between interface and thermostat or interface and plenum.

Valves and additional water coil

BV: Hot water heat exchanger with 1 row.

VCF X: 3-way valve kit for fan coils with single heat exchanger and hydraulic connections on the left side, for installation in 4-pipe systems. The kit is composed by 2 insulated 3-way valves and 4 connections complete with electrothermal actuators, insulating shells for the valves and with hydraulic fittings. 230V power supply. Hydraulic connections: Valve body Ø G 3/4" Male; Valve side connection pipes Ø G 3/4" Female; Unit side connection pipes Ø G 3/4" Male.

VCF41 - 42 - 43 - for main heat exchanger: 3-way motorised valve kit for the main coil. The kit is made up of a valve with its insulating shell, actuator and relative hydraulic fittings. It can be installed on fan coils with both right and left connections. If the valve is combined with the BCZ5 or BCZ6 condensate drain pan, to ensure a better housing it is possible to remove the insulating shell.

VCF44 - 45 - for secondary heat exchanger: The 3-way motorised valve kit for the secondary coil heat only. The kit consists of a valve with its insulating shell, actuator and relevant water fittings; it is suitable to be installed on the fan coils with right and left water connections.

VCFD: Motorized 2-way valve kit without insulating shell, can be installed on the main or secondary battery or a battery that is only warm. The kit is made up of a valve, actuator and relative hydraulic fittings. It can be installed on fan coils with connections on the right and on the left.

VJP: Control and balancing combination valve for 2 and 4 pipe systems to install outside the unit, supplied without fittings and hydraulic components. The valve, which can guarantee a constant water flow rate in the terminal, within its operating range.

Installation accessories

AMP: Wall mounting kit

BC: Condensate drip.

DSC: Condensate drainage device.

Accessories for intake

GA: Intake grid with fixed louvers

GAF: Intake grid with filter and fixed louvers

SE_X: External air shutter with manual control.

RDA_V: Straight intake connection with rectangular flange.

RDA_C: Straight intake connection with circular flanges.

RPA_V: Suction plenum with rectangular flange; both sides have a circular push-out Ø 150mm that can be removed.

PA_V: Suction plenum with circular plastic flanges; both sides have a circular push-out Ø 150mm that can be removed.

Delivery accessories

GM: Flow grid with adjustable louvers.

MZC: Plenum with motorised dampers.

PM_V: Internally insulated delivery plenum with circular flanges; both sides have a circular push-out Ø 150mm that can be removed.

RPM_V: Internally insulated delivery plenum with rectangular flange; both sides have a circular push-out Ø 150mm that can be removed.

RDM_C: Straight discharge internally insulated, with circular flanges.

RDM_V: Straight delivery coupling in galvanised sheet metal.

KFV: Circular flanges kit for plenum.

ACCESSORIES COMPATIBILITY

Control panels and dedicated accessories

Accessory	VED030I	VED040I	VED130I	VED140I	VED230I	VED240I	VED330I	VED340I
AERS03IR	*	*	*	*	*	*	*	*
PRO503	*		*	*	*	*	*	*
SA5	*	*	*	*	*	*	*	*
SW3	*	*	*	*	*	*	*	*
SW5	*	*	*	*	*	*	*	*
SWAI	*	*	*	*	*	*	*	*
TX	*	*	*	*	*	*	*	*
WMT21	*	*	*	*	*	*	*	*

VMF system

Accessory	VED030I	VED040I	VED130I	VED140I	VED230I	VED240I	VED330I	VED340I
DI24	*	*	*	*	*	*	*	*
VMF-E19I	*	*	*	*	*	*	*	*
VMF-E3	*	*	*	*	*	*	*	*
VMF-E4DX	*	*	*	*	*	*	*	*
VMF-E4X	*	*	*	*	*	*	*	*
VMF-IO	*	*	*	*	*	*	*	*
VMF-IR	*		*		*	*	*	*
VMF-LON	*	*	*	*	*	*	*	*
VMF-SW	*	*	*	*	*	*	*	*
VMF-SW1	*	*	*	*	*	*	*	*
VMHI	*	*	*	*	*	*	*	*

(Heating only) additional coil

Ver	030	040	130	140	230	240	330	340
I	BV030	-	BV130	-	BV230	-	BV162	-

Water valves

Valve Kit for 4 pipe systems with main coil

Accessory	VED030I	VED040I	VED130I	VED140I	VED230I	VED240I	VED330I	VED340I
VCF3X4L	*	*	*		*		*	*
VCF3X4LS				*		*		
VCF3X4R	*	*	*		*		*	*
VCF3X4RS				*		*		

3 way valve kit

	VED030I	VED040I	VED130I	VED140I	VED230I	VED240I	VED330I	VED340I
3 way valve kit								
Main heat exchanger	VCF43-VCF4324	VCF43-VCF4324	VCF43-VCF4324	VCF43S-VCF4324S	VCF43-VCF4324	VCF43S-VCF4324S	VCF43-VCF4324	VCF43-VCF4324
Additional coil "BV"	VCF45-VCF4524	-	VCF45-VCF4524	-	VCF45-VCF4524	-	VCF45-VCF4524	-

VCF43 - 45 Power supply 230V, VCF4324-4524 Power supply 24V - Hydraulic connections Ø 3/4"

2 way valve kit

	VED030I	VED040I	VED130I	VED140I	VED230I	VED240I	VED330I	VED340I
2 way valve kit								
Main heat exchanger	VCFD3-VCFD324	VCFD3-VCFD324	VCFD3-VCFD324	VCFD3-VCFD324	VCFD3-VCFD324	VCFD3-VCFD324	VCFD3-VCFD324	VCFD3-VCFD324
Additional coil "BV"	VCFD4-VCFD424	-	VCFD4-VCFD424	-	VCFD4-VCFD424	-	VCFD4-VCFD424	-

VCFD3 Power supply 230V, VCFD324 Power supply 24V - Hydraulic connections Ø 3/4"

VCFD4 Power supply 230V, VCFD424 Power supply 24V - Hydraulic connections Ø 1/2"; For additional coil (heating only) BV.

Combined adjustment and balancing valve cold side

Model	Ver	030	040	130	140	230	240	330	340
VJP060 (1)	I	*	*	*	*				
VJP060M (2)	I	*	*	*	*				
VJP090 (1)	I					*	*	*	*
VJP090M (2)	I					*	*	*	*

Model	Ver	030	040	130	140	230	240	330	340
VJP150 (1)	I							*	*
VJP150M (2)	I							*	*

(1) 230V~50Hz

(2) 24V

VJP060 - 090 - 150 (230V~50Hz); VJP060M-090M-150M (24V)

Installation accessories

Wall mounting accessories

Accessory	VED030I	VED040I	VED130I	VED140I	VED230I	VED240I	VED330I	VED340I
AMP	*	*	*	*	*	*	*	*

Condensate drip

Accessory	VED030I	VED040I	VED130I	VED140I	VED230I	VED240I	VED330I	VED340I
BCZ4	*	*	*	*	*	*	*	*
BCZ6	*	*	*	*	*	*	*	*

Accessory	VED030I	VED040I	VED130I	VED140I	VED230I	VED240I	VED330I	VED340I
BC9	*	*	*	*	*	*	*	*

BCZ4 For vertical installation.

BCZ6 For horizontal installation.

BC9 For horizontal installation.

Condensate drainage

Ver	030	040	130	140	230	240	330	340
I	DSC4	DSC4	DSC4	DSC4	DSC4	DSC4	DSC4	DSC4

Accessories for intake

Intake grids

Ver	030	040	130	140	230	240	330	340
I	GA22	GA22	GA32	GA32	GA42	GA42	GA62	GA62

Intake grid with filter and fixed louvers

Ver	030	040	130	140	230	240	330	340
I	GAF22	GAF22	GAF32	GAF32	GAF42	GAF42	GAF62	GAF62

External air shutter with manual control

Ver	030	040	130	140	230	240	330	340
I	SE20X (1)	SE20X (1)	SE30X (1)	SE30X (1)	SE40X (1)	SE40X (1)	SE80X (1)	SE80X (1)

(1) The SE accessories must be combined with the design and structural feet.

Intake straight with rectangular flanges

Ver	030	040	130	140	230	240	330	340
I	RDA000V	RDA000V	RDA100V	RDA100V	RDA200V	RDA200V	RDA300V	RDA300V

Intake straight internally insulated, with circular flanges

Ver	030	040	130	140	230	240	330	340
I	RDAC000V	RDAC000V	RDAC100V	RDAC100V	RDAC200V	RDAC200V	RDAC300V	RDAC300V

Intake plenum with rectangular flanges

Ver	030	040	130	140	230	240	330	340
I	RPA000V	RPA000V	RPA100V	RPA100V	RPA200V	RPA200V	RPA300V	RPA300V

Intake plenum with circular flanges

Ver	030	040	130	140	230	240	330	340
I	PA000V	PA000V	PA100V	PA100V	PA200V	PA200V	PA300V	PA300V

Delivery accessories

Outlet grille with adjustable louvers

Ver	030	040	130	140	230	240	330	340
I	GM22	GM22	GM32	GM32	GM42	GM42	GM62	GM62

Plenum with motor-driven dampers

Ver	030	040	130	140	230	240	330	340
I	MZC220	MZC220	MZC320	MZC320	MZC530	MZC530	MZC830	MZC830

Delivery plenum internally insulated, with circular flanges

Ver	030	040	130	140	230	240	330	340
I	PM000V	PM000V	PM100V	PM100V	PM200V	PM200V	PM300V	PM300V

Delivery plenum internally insulated, with rectangular flanges

Ver	030	040	130	140	230	240	330	340
I	RPM000V	RPM000V	RPM100V	RPM100V	RPM200V	RPM200V	RPM300V	RPM300V

Delivery straight internally insulated, with circular flanges

Ver	030	040	130	140	230	240	330	340
I	RDMC000V	RDMC000V	RDMC100V	RDMC100V	RDMC200V	RDMC200V	RDMC300V	RDMC300V

Straight delivery coupling

Ver	030	040	130	140	230	240	330	340
I	RDM000V	RDM000V	RDM100V	RDM100V	RDM200V	RDM200V	RDM300V	RDM300V

Circular flanges kit for plenum

Accessory	VED030I	VED040I	VED130I	VED140I	VED230I	VED240I	VED330I	VED340I
KFV10	•	•	•	•	•	•	•	•

PERFORMANCE SPECIFICATIONS
2-pipe

	VED030I			VED040I			VED130I			VED140I			VED230I			VED240I			VED330I			VED340I		
	1	5	7	1	5	7	1	5	7	1	5	7	1	5	7	1	5	7	1	5	7	1	5	7
	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H

Heating performance 70 °C / 60 °C (1)

Heating capacity	kW	1,82	3,37	3,69	2,37	3,57	3,92	4,40	5,83	6,29	4,52	6,09	6,58	5,35	6,50	7,16	5,80	7,14	7,91	7,81	9,34	10,51	8,31	10,08	10,95
Water flow rate system side	l/h	160	296	323	207	313	343	386	512	552	396	534	577	469	570	628	509	626	694	685	819	921	729	878	960
Pressure drop system side	kPa	3	7	9	4	10	12	13	22	26	9	16	18	27	30	37	18	26	32	9	13	16	22	28	32

Heating performance 45 °C / 40 °C (2)

Heating capacity	kW	0,90	1,67	1,83	1,17	1,77	1,94	2,18	2,90	3,12	2,24	3,02	3,27	2,66	3,23	3,56	2,88	3,55	3,93	3,88	4,64	5,22	3,98	4,98	5,44
Water flow rate system side	l/h	157	291	318	204	308	338	380	504	543	390	526	568	462	561	618	501	616	683	674	807	907	718	865	945
Pressure drop system side	kPa	3	8	9	5	11	13	15	24	28	10	16	19	26	29	36	18	27	32	10	14	17	13	20	23

Cooling performance 7 °C / 12 °C

Cooling capacity	kW	0,98	1,42	1,58	1,11	1,69	1,86	2,06	2,76	2,95	2,25	3,02	3,25	2,57	3,09	3,37	2,88	3,59	3,97	3,62	4,36	4,91	3,95	4,72	5,27
Sensible cooling capacity	kW	0,74	1,08	1,20	0,80	1,20	1,31	1,42	1,91	2,05	1,59	2,16	2,32	1,98	2,40	2,65	2,18	2,67	2,96	2,77	3,27	3,64	2,92	3,51	3,90
Water flow rate system side	l/h	170	250	279	193	296	327	358	480	515	390	525	566	445	538	588	499	624	691	633	760	860	680	811	906
Pressure drop system side	kPa	3	7	9	5	12	14	15	27	41	11	20	23	25	36	44	16	31	37	10	14	18	16	21	26

Fan

Type	type	Centrifugal																							
Fan motor	type	Inverter																							
Number	no.	1			1			2			2			2			2			3			3		
Air flow rate	m³/h	161	256	285	160	249	277	287	397	434	280	386	420	417	524	590	406	509	570	572	704	805	563	685	775
High static pressure	Pa	21	50	61	21	50	61	26	50	60	26	50	60	32	50	64	32	50	63	33	50	66	34	50	64
Input power	W	12	29	36	12	29	36	17	33	45	17	33	45	24	40	53	24	40	53	35	60	86	35	60	86
Signal 0-10V	%	54	80	90	54	80	90	58	82	90	58	82	90	66	80	90	62	80	90	62	78	90	66	84	90

Duct type fan coil sound data (3)

Sound power level (inlet + radiated)	dB(A)	44,0	52,0	54,0	44,0	52,0	54,0	47,0	53,0	55,0	47,0	53,0	55,0	49,0	54,0	57,0	49,0	54,0	57,0	49,0	55,0	58,0	49,0	55,0	58,0
Sound power level (outlet)	dB(A)	40,0	48,0	50,0	40,0	48,0	50,0	42,0	48,0	50,0	42,0	48,0	50,0	44,0	49,0	52,0	44,0	49,0	52,0	45,0	51,0	54,0	45,0	51,0	54,0

Diameter hydraulic fittings

Type	type	Gas - F																							
Main heat exchanger	Ø	3/4"																							

Power supply

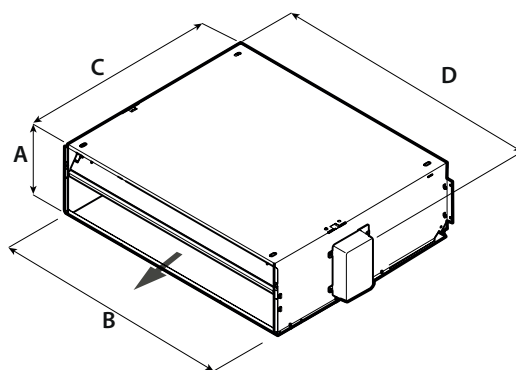
Power supply	230V~50Hz																							
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(1) Room air temperature 20 °C d.b.; Water (in/out) 70 °C/60 °C

(2) Room air temperature 20 °C d.b.; Water (in/out) 45 °C/40 °C; EUROVENT

(3) Aermec determines the sound power value on the basis of measurements taken in accordance with standard UNI EN 16583:15, respecting the Eurovent certification.

DIMENSIONS



		VED030I	VED040I	VED130I	VED140I	VED230I	VED240I	VED330I	VED340I
Dimensions and weights									
A	mm	217	217	217	217	217	217	217	217
B	mm	550	550	781	781	1001	1001	1122	1122
C	mm	584	584	584	584	584	584	584	584
D	mm	576	576	807	807	1027	1027	1148	1148

Aermec reserves the right to make any modifications deemed necessary.
All data is subject to change without notice. Aermec does not assume
responsibility or liability for errors or omissions.

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VED 430-741

Fan coil unit for ducted installations

- Horizontal and vertical installation
- Ventilation group to 5 speed
- Large range of available static pressure
- Inspectable ventilation group



DESCRIPTION

Ducted fan coil, for heating, cooling and dehumidifying. Designed to maintain the set temperature over time, ensuring very low sound levels. Can be installed in any 2/4 pipe system and operates with any heat generator even at low temperatures. Thanks to the availability of various options, with standard or increased coil, for horizontal or vertical installation, it is easy to choose the optimal solution for any need.

FEATURES

Case

Unit for internal installation. Internally insulated structure with class 1 fire resistance and IP20 protection.

Ventilation group

Centrifugal fans in anti-static plastic material with aerofoil profile designed to achieve high airflows and pressures whilst at the same time producing low noise.

Their characteristics permit energy savings compared to conventional fans. They are statically and dynamically balanced and directly coupled to the motor shaft.

The electric motor is single-phase multi-speed (3 selectable), mounted on anti-vibration supports and with a permanently inserted capacitor.

Fan housing in plastic material removable for easy and effective cleaning.

Heat exchanger coil

With copper pipes and aluminium louvers, the main heat exchanger has female gas water connections on the left side and the manifolds have air vents.

The coil is not suitable for use in corrosive atmosphere or in environments where aluminium may be subject to corrosion.

■ *The hydraulic connections can be inverted during installation.*

Air filter

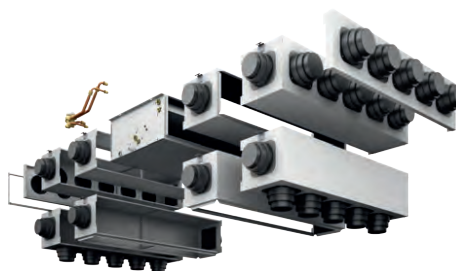
Air filter Class G3, for easy removal and cleaning.

Controls and Accessoires

There is a wide selection of controls and a huge choice of accessories, to meet every system requirement.

The unit is supplied with the delivery connection supplied.

ACCESSORIES



Control panels

AER503IR: Flush-mounting thermostat with backlit display, capacitive keypad and infrared receiver, for controlling both brushless fan coils and those with an asynchronous motor. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices (Cold Plasma and germicidal lamp), with radiant plate or with FCZ-D twin delivery (Dualjet). In addition, it can control systems with radiant panels or mixed (fan coil and radiant floor) systems. Being equipped with an infrared receiver, it can, in turn, be controlled by the VMF-IR remote control.

PRO503: Wall box for AER503IR and VMF-E4 thermostats.

SA5: air probe kit (L = 15 m) with probe-locking cable grommet.

SIT3: Thermostat Interface Card allowing the creation of a network of fan coils (max. 10) commanded by a central control panel (selector or thermostat). Commands the 3 fan speeds and must be installed on each fan coil within the network; receives the commands from the selector or the SIT5 card. In case you decide to install Aermec thermostats and current absorbed by the unit exceeds 0.7 A, you're obliged to include SIT3 accessory.

SIT5: Thermostat Interface Card allowing the creation of a network of fan coils (max. 10) commanded by a central control panel. Commands the 3 fan

speeds and up to 2 valves (four pipe systems); sends the thermostat's commands to the fan coil network.

SW3: Water probe (L = 2.5 m) for controlling the minimum and maximum and to allow automatic seasonal switching for electronic thermostats fitted with water side changeover.

SW5: water probe kit (L = 15m) with probe-holder connection point, fixing clip and probe-holder from heat exchanger.

TX: Wall-mounting thermostat for controlling either brushless fan coils or those with asynchronous motors for 2/4 pipe. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices, radiant plate or FCZ-D twin delivery (Dualjet).

WMT10: Electronic thermostat, white, with thermostated or continuous ventilation.

WMT16: Electronic thermostat with thermostated ventilation.

WMT16CV: Electronic thermostat with continuous ventilation.

AerSuite

The AerSuite application is used to remotely control the DI24 user interface, with VMF-E19/VMF-E19I thermostats, using Smart Devices with iOS and Android operating systems.

This is an application for Smartphones and Tablets with which the user can access and control the system operation remotely.

For more information about the use of the application and the available functions, refer to the respective documentation on the website.



VMF system

DI24: Flush-mounted interface (503 box) with 2.4" touch screen display to be combined with VMF-E19, VMF-E19I accessories. It allows you to regulate and monitor the temperature inside rooms precisely and on time; in addition to accessing and interacting with your system's operating information, parameters and alarms, it allows you to set time slots. Thanks to its Wi-Fi connection, DI24 in combination with the AerSuite APP (available for Android and iOS) can also be remotely controlled. All programming and most functions are done in a simple and intuitive way using the APP. To allow for customization of the interface so that it seamlessly integrates with the style of any home, DI24 is compatible with switch plates from major brands available on the market. For more information, please refer to our documentation. However, a switch plate with its graphite gray support, DI24CP, is also available as a separate accessory in our catalog.

VMF-E19: Thermostat to be secured to the side of the fan coil, fitted as standard with an air probe and a water probe.

VMF-E3: Wall mounted user interface, to be combined with accessories VMF-E19, VMF-E19I, with grids GLF_N/M and GLL_N, can be controlled with VMF-IR control.

VMF-E4DX: Wall-mounted user interface. Grey front panel PANTONE 425C (METAL).

VMF-E4X: Wall-mounted user interface. Light grey front panel PANTONE COOL GRAY 1C.

VMF-IO: Manage the unit exclusively from a centralized VMF control panel without area control panel.

VMF-IR: User interface compatible with the AER503IR, VMF-E3 thermostat and with all the grids of cassettes equipped with the infrared receiver compatible with the VMF system.

VMF-MOD: Expansion board for the management of modulating valves.

VMF-SIT3V: Relay interface board. Mandatory accessory on units where motor absorption exceeds 0.7 A. The relay interface board is supplied with a 2A fuse to protect the fan coil. If the fan coil absorbs more than 2A and up to 4A, the fuse inside must be replaced with a 4A fuse supplied.

VMF-SW: Water probe (L = 2.5m) used if required in place of the standard unit supplied with the VMF-E19 and VMF-E19I thermostats for mounting it upstream of the valve.

VMF-SW1: Additional water probe (L = 2.5m) to be used if required for 4-pipe systems with the VMF-E19 and VMF-E19I thermostats for maximum control in the cold range

VMHI: The VMHI panel can be used as a user interface for VMF-E19/E19I thermostats, GLFxN/M or GLLxN grids, or as an interface for the MZC system. What determines the function to be performed by the user interface is determined by its correct parametrisation and by following the electrical connections between interface and thermostat or interface and plenum.

Water valves

VJP: Control and balancing combination valve for 2 and 4 pipe systems to install outside the unit, supplied without fittings and hydraulic components. The valve, which can guarantee a constant water flow rate in the terminal, within its operating range.

VCT: These are 3-way ball valves made of bronze, with female/female connections Ø 1/2". That can be servo-activated via servo commands. The valves do not have fittings and pipes for water connections, which are the installer's responsibility.

VCT: These are 3-way ball valves made of bronze, with female/female connections Ø 1/2". That can be servo-activated via servo commands. The valves do not have fittings and pipes for water connections, which are the installer's responsibility.

VCTK: The VCT series valves can be combined with the actuators On-Off 230V. The actuator must be selected according to the type of system/adjustment provided.

VCTKM: The VCT series valves can be combined with the actuators 24V modulating. The actuator must be selected according to the type of system/adjustment provided.

VCF45C - 47C - 47CS - for main heat exchanger: 3-way motorised valve kit for the main heat exchanger. The kit is made up of a valve with its insulating shell, actuator and relative hydraulic fittings. It can be installed on fan coils with both right and left connections. If the valve is combined with the BCZ5 or BCZ6 condensate drain pan, to ensure a better housing it is possible to remove the insulating shell.

VCF45H - 47H - for heating only heat exchanger: Motorized 3-way valve kit for hot only coil. The kit consists of a 3-way 4-way valve, the actuator and its hydraulic fittings, it is suitable for installation on both fan coil units with hydraulic connections on the right and left.

VCF25C - 25CS - for main coil: 2-way motorized valve kit for main coil. The kit consists of a valve with its insulating shell, the actuator and the relative hydraulic fittings, it is suitable for installation on both fan coil units with hydraulic connections on the right and left.

VCF25H - for heating only coil: 2-way motorized valve kit for hot only coil. The kit consists of a valve, actuator and relative hydraulic fittings, it is suitable for installation on both fan coils with hydraulic connections on the right and left.

BCV: Condensate drip.

Installation accessories

MZC: Plenum with motorised dampers.

RDA_V: Straight intake connection with rectangular flange.

RPA_V: Suction plenum with rectangular flange; both sides have a circular push-out Ø 150mm that can be removed.

PA_V: Suction plenum with circular plastic flanges; both sides have a circular push-out Ø 150mm that can be removed.

PM_V: Internally insulated delivery plenum with circular flanges; both sides have a circular push-out Ø 150mm that can be removed.

RPM_V: Internally insulated delivery plenum with rectangular flange; both sides have a circular push-out Ø 150mm that can be removed.

KFV: Circular flanges kit for plenum.

MZCACV: Electrical system with relay interface board. Mandatory accessory on units where motor absorption exceeds 0.7 A. The relay interface board is supplied with a 2A fuse to protect the fan coil. If the fan coil absorbs more than 2A and up to 4A, the fuse inside must be replaced with a 4A fuse supplied.

MZCAC: Mandatory electrical system for connecting the MZC plenum with a fan coil fitted with an asynchronous motor.

Configurator

Field	Description
1,2,3	VED
4,5,6	Size 430, 432, 440, 441, 530, 532, 540, 541, 630, 632, 640, 641, 730, 732, 740, 741
7	main heat exchanger
8	Secondary heat exchanger

ACCESSORIES COMPATIBILITY

Control panels and dedicated accessories

Model	Ver	430	432	440	441	530	532	540	541	630	632	640	641	730	732	740	741
AER503IR (1)	.	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
PRO503	.	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
SA5 (2)	.	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
SIT3 (3)	.	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
SIT5 (4)	.	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
SW3 (2)	.	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
SW5 (2)	.	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
TX (5)	.	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
WMT10 (5)	.	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
WMT16 (5)	.	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
WMT16CV (5)	.	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*

(1) Wall-mount installation.

(2) Probe for AER503IR-TX thermostats, if fitted.

(3) Cards for AER503IR-TX thermostats, if present, to be installed if the unit absorption exceeds 0,7 Ampere.

(4) Probe for AER503IR-TX thermostats, if fitted.

(5) Wall-mounting. If the unit intake exceeds 0.7A, or several units need to be managed with a single thermostat, board SIT3 and/or SIT5 is required.

VMF system

Model	Ver	430	432	440	441	530	532	540	541	630	632	640	641	730	732	740	741
DI24	.	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
VMF-E19 (1)	.	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
VMF-E3	.	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
VMF-E4DX	.	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
VMF-E4X	.	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
VMF-IO	.	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
VMF-IR	.	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
VMF-MOD	.	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
VMF-SIT3V (2)	.	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
VMF-SW	.	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
VMF-SW1	.	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
VMHI	.	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*

(1) Also the accessory VMF-SIT3V is mandatory if the unit exceeds 0.7 Amperes.

(2) For the selection, consult the documentation for the thermostat and the fan coil.

Water valves

3 way valve kit

	VED430	VED432	VED440	VED441	VED530	VED532	VED540	VED541
3 way valve kit								
Main heat exchanger	VCF45C	VCF45C	VCF45C	VCF45C	VCF45C	VCF45C	VCF45C	VCF45C
	VED630	VED632	VED640	VED641	VED730	VED732	VED740	VED741
3 way valve kit								
Main heat exchanger	VCF47C	VCF47C	VCF47CS	VCF47CS	VCF47C	VCF47C	VCF47CS	VCF47CS
	VED430	VED432	VED440	VED441	VED530	VED532	VED540	VED541
3 way valve kit								
Main heat exchanger	VCF45C	VCF45C	VCF45C	VCF45C	VCF45C	VCF45C	VCF45C	VCF45C
Secondary heat exchanger for four pipes	-	VCF45H	-	VCF45H	-	VCF45H	-	VCF45H
	VED630	VED632	VED640	VED641	VED730	VED732	VED740	VED741
3 way valve kit								
Main heat exchanger	VCF47C	VCF47C	VCF47CS	VCF47CS	VCF47C	VCF47C	VCF47CS	VCF47CS
Secondary heat exchanger for four pipes	-	VCF47H	-	VCF47H	-	VCF47H	-	VCF47H

230V power supply - Hydraulic connection Ø 3/4"

2 way valve kit

	VED430	VED432	VED440	VED441	VED530	VED532	VED540	VED541
2 way valve kit								
Main heat exchanger	VCF25C	VCF25C	VCF25C	VCF25C	VCF25C	VCF25C	VCF25C	VCF25C
	VED630	VED632	VED640	VED641	VED730	VED732	VED740	VED741
2 way valve kit								
Main heat exchanger	VCF25C	VCF25C	VCF25CS	VCF25CS	VCF25C	VCF25C	VCF25CS	VCF25CS

	VED430	VED432	VED440	VED441	VED530	VED532	VED540	VED541
2 way valve kit								
Main heat exchanger	VCF25C	VCF25C	VCF25C	VCF25C	VCF25C	VCF25C	VCF25C	VCF25C
Secondary heat exchanger for four pipes	-	VCF25H	-	VCF25H	-	VCF25H	-	VCF25H
	VED630	VED632	VED640	VED641	VED730	VED732	VED740	VED741
2 way valve kit								
Main heat exchanger	VCF25C	VCF25C	VCF25CS	VCF25CS	VCF25C	VCF25C	VCF25CS	VCF25CS
Secondary heat exchanger for four pipes	-	VCF25H	-	VCF25H	-	VCF25H	-	VCF25H

230V power supply - Hydraulic connection Ø 3/4"

2-way globe valves actuator excluded

Ver	430	432	440	441	530	532	540	541	630	632	640	641	730	732	740	741
.	VCT102	VCT102	VCT102	VCT102	VCT102	VCT102	VCT102	VCT102	VCT202	VCT202	VCT202	VCT202	VCT202	VCT202	VCT202	VCT202

3-way globe valves actuator excluded

Ver	430	432	440	441	530	532	540	541	630	632	640	641	730	732	740	741
.	VCT103	VCT103	VCT103	VCT103	VCT103	VCT103	VCT103	VCT103	VCT203	VCT203	VCT203	VCT203	VCT203	VCT203	VCT403	VCT403

Actuator 230V

Ver	430	432	440	441	530	532	540	541	630	632	640	641	730	732	740	741
.	VCTK	VCTK	VCTK	VCTK	VCTK	VCTK	VCTK	VCTK	VCTK	VCTK	VCTK	VCTK	VCTK	VCTK	VCTK	VCTK

Actuator 24V

Ver	430	432	440	441	530	532	540	541	630	632	640	641	730	732	740	741
.	VCTKM	VCTKM	VCTKM	VCTKM	VCTKM	VCTKM	VCTKM	VCTKM	VCTKM	VCTKM	VCTKM	VCTKM	VCTKM	VCTKM	VCTKM	VCTKM

Combined adjustment and balancing valve cold side

Model	Ver	430	432	440	441	530	532	540	541	630	632	640	641	730	732	740	741
VJP150 (1)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
VJP150M (2)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
VJP270M (2)	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

(1) 230V~50Hz

(2) 24V

VJP/VJP_M the compatibility of the hot water valves with the designed air flow in a four-pipe installation is to be verified.

Accessories for intake

Intake straight with rectangular flanges

Ver	430	432	440	441	530	532	540	541	630	632	640	641	730	732	740	741
.	RDA450V	RDA450V	RDA450V	RDA450V	RDA450V	RDA450V	RDA450V	RDA450V	RDA670V	RDA670V	RDA670V	RDA670V	RDA670V	RDA670V	RDA670V	RDA670V

Intake plenum with rectangular flanges

Ver	430	432	440	441	530	532	540	541	630	632	640	641	730	732	740	741
.	RPA450V	RPA450V	RPA450V	RPA450V	RPA450V	RPA450V	RPA450V	RPA450V	RPA670V	RPA670V	RPA670V	RPA670V	RPA670V	RPA670V	RPA670V	RPA670V

Intake plenum with circular flanges

Ver	430	432	440	441	530	532	540	541	630	632	640	641	730	732	740	741
.	PA450V	PA450V	PA450V	PA450V	PA450V	PA450V	PA450V	PA450V	PA670V	PA670V	PA670V	PA670V	PA670V	PA670V	PA670V	PA670V

Delivery accessories

Delivery plenum internally insulated, with rectangular flanges

Ver	430	432	440	441	530	532	540	541	630	632	640	641	730	732	740	741
.	RPM450V	RPM450V	RPM450V	RPM450V	RPM450V	RPM450V	RPM450V	RPM450V	RPM670V	RPM670V	RPM670V	RPM670V	RPM670V	RPM670V	RPM670V	RPM670V

Delivery plenum internally insulated, with circular flanges

Ver	430	432	440	441	530	532	540	541	630	632	640	641	730	732	740	741
.	PM450V	PM450V	PM450V	PM450V	PM450V	PM450V	PM450V	PM450V	PM670V	PM670V	PM670V	PM670V	PM670V	PM670V	PM670V	PM670V

Circular flanges kit for plenum

Ver	430	432	440	441	530	532	540	541	630	632	640	641	730	732	740	741
.	KFV	KFV	KFV	KFV	KFV	KFV	KFV	KFV	KFV	KFV	KFV	KFV	KFV	KFV	KFV	KFV

Condensate drip

Ver	430	432	440	441	530	532	540	541	630	632	640	641	730	732	740	741
.	BCV45	BCV45	BCV45	BCV45	BCV45	BCV45	BCV45	BCV45	BCV67	BCV67	BCV67	BCV67	BCV67	BCV67	BCV67	BCV67

MZC

Plenum with motor-driven dampers

Ver	430	432	440	441	530	532	540	541	630	632	640	641	730	732	740	741
.	MZCS040	MZCS040	MZCS040	MZCS040	MZCS040	MZCS040	MZCS040	MZCS040	MZC7050	MZC7050	MZC7050	MZC7050	MZC7050	MZC7050	MZC7050	MZC7050

Electric plant

Ver	430	432	440	441	530	532	540	541	630	632	640	641	730	732	740	741
.	MZCAC	MZCAC	MZCAC	MZCAC	MZCAC	MZCAC	MZCAC	MZCAC	MZCAC	MZCAC	-	-	-	-	-	-

The accessory cannot be fitted on the configurations indicated with -

Electrical system with relays

Ver	430	432	440	441	530	532	540	541	630	632	640	641	730	732	740	741
.	-	-	-	-	-	-	-	-	-	-	MZCACV (1)	MZCACV (1)	MZCACV (1)	MZCACV (1)	MZCACV (1)	MZCACV (1)

(1) It is mandatory to use MZCACV if the intake of the unit combined with the MZC accessory exceeds 0.7 Ampere.

The accessory cannot be fitted on the configurations indicated with -

■ For more information, please refer to the MZC plenum sheet.

PERFORMANCE SPECIFICATIONS

2-pipe

		VED430			VED440			VED530			VED540			VED630			VED640			VED730			VED740		
		1	3	5	1	3	5	2	4	5	2	4	5	1	3	5	1	3	5	1	3	5	1	3	5
		L	M	H	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H
Heating performance 70 °C / 60 °C (1)																									
Heating capacity	kW	10,47	13,85	15,97	11,45	15,36	18,11	13,80	16,47	17,57	15,38	18,59	19,91	18,63	22,67	27,02	22,45	27,74	32,69	21,18	25,36	29,00	22,88	27,65	31,71
Water flow rate system side	l/h	918	1214	1401	1004	1347	1588	1210	1444	1541	1349	1630	1746	1634	1988	2369	1969	2433	2867	1857	2224	2543	2007	2425	2781
Pressure drop system side	kPa	9	14	19	11	18	24	13	158	21	18	25	29	30	43	58	19	29	38	38	55	67	26	36	46
Heating performance 45 °C / 40 °C (2)																									
Heating capacity	kW	5,20	5,88	7,94	5,69	7,64	9,01	6,86	8,19	8,74	7,45	9,24	9,90	9,26	11,20	13,40	9,88	12,40	14,80	10,50	12,60	14,20	11,30	13,70	15,70
Water flow rate system side	l/h	894	1183	1366	979	1314	1550	1180	1409	1503	1281	1589	1703	1593	1926	2305	1699	2133	2546	1806	2167	2442	1944	2356	2700
Pressure drop system side	kPa	9	14	19	11	18	24	14	19	21	21	25	30	30	42	58	16	24	32	38	52	66	26	36	35
Cooling performance 7 °C / 12 °C																									
Cooling capacity	kW	4,54	5,98	6,72	5,21	6,88	7,79	5,99	7,16	7,49	7,26	8,31	8,70	8,67	10,43	12,19	10,20	12,50	14,80	10,17	11,92	13,48	11,73	13,95	15,71
Sensible cooling capacity	kW	3,40	4,54	5,13	3,65	4,86	5,51	4,55	5,48	5,75	4,87	5,90	6,18	7,00	8,48	9,96	7,02	8,62	10,30	8,25	9,71	11,07	8,11	9,69	10,95
Water flow rate system side	l/h	781	1029	1156	896	1183	1340	1030	1232	1288	1249	1429	1496	1491	1794	2097	1754	2150	2546	1749	2050	2319	2018	2399	2702
Pressure drop system side	kPa	8	13	17	10	17	22	12	19	21	19	25	28	26	36	48	24	34	47	35	46	58	27	37	45
Fan																									
Type	type	Centrifugal																							
Fan motor	type	Asynchronous																							
Number	no.	2			2			2			2			3			3			3			3		
Air flow rate	m³/h	790	1130	1350	780	1100	1340	1120	1400	1520	1100	1380	1500	1380	1800	2210	1567	2004	2440	1640	2040	2410	1600	2000	2350
High static pressure	Pa	24	50	72	-	50	63	32	50	70	32	50	56	30	50	75	30	50	75	32	50	69	32	50	64
Input power	W	137	175	228	135	178	222	175	232	270	172	230	267	220	271	340	220	293	340	234	285	371	234	285	371
Electrical wiring		V1	V3	V5	V1	V3	V5	V2	V4	V5	V2	V4	V5	V1	V3	V5	V1	V3	V5	V1	V3	V5	V1	V3	V5
Duct type fan coil sound data (3)																									
Sound power level (inlet + radiated)	dB(A)	51,0	57,0	61,0	51,0	57,0	61,0	53,0	59,0	62,0	53,0	59,0	62,0	61,0	64,0	68,0	61,0	64,0	68,0	62,0	66,0	68,0	62,0	66,0	68,0
Sound power level (outlet)	dB(A)	47,0	53,0	57,0	47,0	53,0	57,0	49,0	55,0	58,0	49,0	55,0	58,0	57,0	60,0	64,0	57,0	60,0	64,0	58,0	62,0	64,0	58,0	62,0	64,0
Diameter hydraulic fittings																									
Type	type	-																							
Main heat exchanger	Ø	3/4"																							
Finned pack heat exchanger																									
Water content main heat exchanger	l	2,9			3,9			2,9			3,9			4,7			6,3			4,7			6,3		
Power supply																									
Power supply		230V~50Hz																							

(1) Room air temperature 20 °C d.b.; Water (in/out) 70 °C/60 °C

(2) Room air temperature 20 °C d.b.; Water (in/out) 45 °C/40 °C; EUROVENT

(3) Aermec determines the sound power value on the basis of measurements taken in accordance with standard UNI EN 16583:15, respecting the Eurovent certification.

4-pipe

		VED441			VED541			VED641			VED741		
		1	3	5	2	4	5	1	3	5	1	3	5
		L	M	H	L	M	H	L	M	H	L	M	H
Heating performance 65 °C / 55 °C (1)													
Heating capacity	kW	5,53	6,68	7,30	6,70	7,62	7,89	9,65	11,00	12,30	10,50	11,80	12,90
Water flow rate system side	l/h	475	574	627	576	655	678	829	946	1057	903	1014	1109
Pressure drop system side	kPa	14	20	23	20	25	26	15	19	24	18	22	25
Cooling performance 7 °C / 12 °C													
Cooling capacity	kW	5,35	7,05	8,00	7,46	8,56	8,94	10,40	12,70	15,20	11,90	14,20	16,10
Sensible cooling capacity	kW	3,79	5,03	5,74	5,07	6,14	6,42	7,26	8,92	10,70	8,37	9,96	11,30
Water flow rate system side	l/h	920	1212	1376	1283	1472	1537	1788	2184	2614	2046	2442	2769
Pressure drop system side	kPa	12	19	24	21	27	29	24	35	48	27	37	46
Fan													
Type	type	Centrifugal											
Fan motor	type	Asynchronous											
Number	no.	2			2			3			3		
Air flow rate	m³/h	750	1060	1253	1060	1360	1453	1340	1730	2120	1600	2000	2358
High static pressure	Pa	25	50	70	32	50	57	30	50	75	32	50	69
Input power	W	121	175	215	170	229	265	224	264	341	224	288	373
Electrical wiring		V1	V3	V5	V2	V4	V5	V1	V3	V5	V1	V3	V5

		VED441			VED541			VED641			VED741		
Duct type fan coil sound data (2)													
Sound power level (inlet + radiated)	dB(A)	51,0	57,0	61,0	53,0	59,0	62,0	61,0	64,0	68,0	62,0	66,0	68,0
Sound power level (outlet)	dB(A)	47,0	53,0	57,0	49,0	55,0	58,0	57,0	60,0	64,0	58,0	62,0	64,0
Diameter hydraulic fittings													
Type	type	-											
Main heat exchanger	Ø	3/4"											
Secondary heat exchanger	Ø	1/2"											
Finned pack heat exchanger													
Water content main heat exchanger	l	3,9			3,9			6,3			6,3		
Water content secondary heat exchanger	l	1,0			1,0			1,6			1,6		
Power supply													
Power supply		230V~50Hz											

(1) Room air temperature 20°C d.b.; Water (in/out) 65 °C/55 °C; EUROVENT

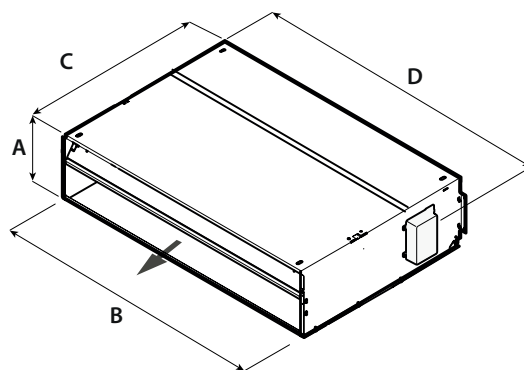
(2) Aermec determines the sound power value on the basis of measurements taken in accordance with standard UNI EN 16583:15, respecting the Eurovent certification.

VED		From VED 430 to 741				
Fan speed	V1	V2	V3	V4	V5	
Motor connection	L5	L4	L3	L2	L1	

The speed of associates may differ from the standard factory configuration.

For more information refer to the selection program and to the dedicated documentation.

DIMENSIONS



		VED430	VED432	VED440	VED441	VED530	VED532	VED540	VED541
Dimensions and weights									
A	mm	300	300	300	300	300	300	300	300
B	mm	1133	1133	1133	1133	1133	1133	1133	1133
C	mm	737	737	737	737	737	737	737	737
D	mm	1158	1158	1158	1158	1158	1158	1158	1158
Net weight	kg	41,0	46,0	43,0	46,0	42,0	47,0	47,0	47,0
		VED630	VED632	VED640	VED641	VED730	VED732	VED740	VED741
Dimensions and weights									
A	mm	351	351	351	351	351	351	351	351
B	mm	1533	1533	1533	1533	1533	1533	1533	1533
C	mm	789	789	789	789	789	789	789	789
D	mm	1558	1558	1558	1558	1558	1558	1558	1558
Net weight	kg	57,0	60,0	60,0	60,0	58,0	61,0	61,0	64,0
		VED430	VED432	VED440	VED441	VED530	VED532	VED540	VED541
Dimensions and weights									
A	mm	300	300	300	300	300	300	300	300
B	mm	1133	1133	1133	1133	1133	1133	1133	1133
C	mm	737	737	737	737	737	737	737	737
D	mm	1158	1158	1158	1158	1158	1158	1158	1158
Net weight	kg	41,0	46,0	43,0	46,0	42,0	47,0	47,0	47,0
		VED630	VED632	VED640	VED641	VED730	VED732	VED740	VED741
Dimensions and weights									
A	mm	351	351	351	351	351	351	351	351
B	mm	1533	1533	1533	1533	1533	1533	1533	1533
C	mm	789	789	789	789	789	789	789	789
D	mm	1558	1558	1558	1558	1558	1558	1558	1558
Net weight	kg	57,0	60,0	60,0	60,0	58,0	61,0	61,0	64,0

Aermec reserves the right to make any modifications deemed necessary.
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VED 530I-741I

Fan coil unit for ducted installations

- Horizontal and vertical installation
- Ventilation group to 5 speed
- Large range of available static pressure
- Inspectable ventilation group



DESCRIPTION

Ducted fan coil, for heating, cooling and dehumidifying. Designed to maintain the set temperature over time, ensuring very low sound levels. Can be installed in any 2/4 pipe system and operates with any heat generator even at low temperatures. Thanks to the availability of various options, with standard or increased coil, for horizontal or vertical installation, it is easy to choose the optimal solution for any need.

FEATURES

Case

Unit for internal installation. Internally insulated structure with class 1 fire resistance and IP20 protection.

Ventilation group

Centrifugal fans in anti-static plastic material with aerofoil profile designed to achieve high airflows and pressures whilst at the same time producing low noise.

Brushless motor with continuous speed variation 0-100%. Inverter motor allows precise adaptation to the real indoor environment requirements without temperature oscillations.

The air flow can be continuously changed through a 1-10 V signal, coming from adjustment and control commands Aermec or from independent adjustment systems.

This lowers noise and generates a better response to heat loads and a higher stability in the desired temperature inside the room.

The high efficiency even with low speed, makes it possible to reduce power consumption (more than 50% less than fan coils with traditional motors).

Heat exchanger coil

With copper pipes and aluminium louvers, the main heat exchanger has female gas water connections on the left side and the manifolds have air vents.

The coil is not suitable for use in corrosive atmosphere or in environments where aluminium may be subject to corrosion.

■ *The hydraulic connections can be inverted during installation.*

Air filter

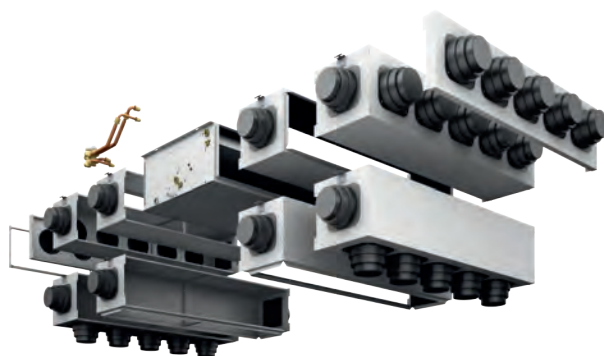
Air filter Class G3, for easy removal and cleaning.

Controls and Accessoires

There is a wide selection of controls and a huge choice of accessories, to meet every system requirement.

The unit is supplied with the delivery connection supplied.

ACCESSORIES



Control panels

AER503IR: Flush-mounting thermostat with backlit display, capacitive keypad and infrared receiver, for controlling both brushless fan coils and those with an asynchronous motor. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices (Cold Plasma and germicidal lamp), with radiant plate or with FCZ-D twin delivery (Dualjet). In addition, it can control systems with radiant panels or mixed (fan coil and radiant floor) systems. Being equipped with an infrared receiver, it can, in turn, be controlled by the VMF-IR remote control.

PRO503: Wall box for AER503IR and VMF-E4 thermostats.

SA5: air probe kit (L = 15 m) with probe-locking cable grommet.

SW5: water probe kit (L = 15m) with probe-holder connection point, fixing clip and probe-holder from heat exchanger.

TX: Wall-mounting thermostat for controlling either brushless fan coils or those with asynchronous motors for 2/4 pipe. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices, radiant plate or FCZ-D twin delivery (Dualjet).

WMT21: Electronic thermostat for inverter fancoils.

AerSuite

The AerSuite application is used to remotely control the DI24 user interface, with VMF-E19/VMF-E19I thermostats, using Smart Devices with iOS and Android operating systems.

This is an application for Smartphones and Tablets with which the user can access and control the system operation remotely.

For more information about the use of the application and the available functions, refer to the respective documentation on the website.



VMF system

The VMF-E19I accessory must be factory installed

DI24: Flush-mounted interface (503 box) with 2.4" touch screen display to be combined with VMF-E19, VMF-E19I accessories. It allows you to regulate and monitor the temperature inside rooms precisely and on time; in addition to accessing and interacting with your system's operating information, parameters and alarms, it allows you to set time slots. Thanks to its Wi-Fi connection, DI24 in combination with the AerSuite APP (available for Android and iOS) can also be remotely controlled. All programming and most functions are done in a simple and intuitive way using the APP. To allow for customization of the interface so that it seamlessly integrates with the style of any home, DI24 is compatible with switch plates from major brands available on the market. For more information, please refer to our documentation. However, a switch plate with its graphite gray support, DI24CP, is also available as a separate accessory in our catalog.

VMF-E19I: Thermostat for inverter unit to be fixed on the side of the fan coil, fitted as standard with an air and water probe.

VMF-E3: Wall mounted user interface, to be combined with accessories VMF-E19, VMF-E19I, with grids GLF_N/M and GLL_N, can be controlled with VMF-IR control.

VMF-E4DX: Wall-mounted user interface. Grey front panel PANTONE 425C (METAL).

VMF-E4X: Wall-mounted user interface. Light grey front panel PANTONE COOL GRAY 1C.

VMF-IO: Manage the unit exclusively from a centralized VMF control panel without area control panel.

VMF-IR: User interface compatible with the AER503IR, VMF-E3 thermostat and with all the grids of cassettes equipped with the infrared receiver compatible with the VMF system.

VMF-SW: Water probe (L = 2.5m) used if required in place of the standard unit supplied with the VMF-E19 and VMF-E19I thermostats for mounting it upstream of the valve.

VMF-SW1: Additional water probe (L = 2.5m) to be used if required for 4-pipe systems with the VMF-E19 and VMF-E19I thermostats for maximum control in the cold range

VMHI: The VMHI panel can be used as a user interface for VMF-E19/E19I thermostats, GLFxN/M or GLLxN grids, or as an interface for the MZC system. What determines the function to be performed by the user interface is determined by its correct parametrisation and by following the electrical connections between interface and thermostat or interface and plenum.

Water valves

VJP: Control and balancing combination valve for 2 and 4 pipe systems to install outside the unit, supplied without fittings and hydraulic components. The valve, which can guarantee a constant water flow rate in the terminal, within its operating range.

VCF45C - 47C - 47CS - for main heat exchanger: 3-way motorised valve kit for the main heat exchanger. The kit is made up of a valve with its insulating shell, actuator and relative hydraulic fittings. It can be installed on fan coils with both right and left connections. If the valve is combined with the BCZ5 or BCZ6 condensate drain pan, to ensure a better housing it is possible to remove the insulating shell.

VCF45H - 47H - for heating only heat exchanger: Motorized 3-way valve kit for hot only coil. The kit consists of a 3-way 4-way valve, the actuator and its hydraulic fittings, it is suitable for installation on both fan coil units with hydraulic connections on the right and left.

VCF25C - 25CS - for main coil: 2-way motorized valve kit for main coil. The kit consists of a valve with its insulating shell, the actuator and the relative hydraulic fittings, it is suitable for installation on both fan coil units with hydraulic connections on the right and left.

VCF25H - for heating only coil: 2-way motorized valve kit for hot only coil. The kit consists of a valve, actuator and relative hydraulic fittings, it is suitable for installation on both fan coils with hydraulic connections on the right and left.

BCV: Condensate drip.

Installation accessories

MZC: Plenum with motorised dampers.

RDA_V: Straight intake connection with rectangular flange.

RPA_V: Suction plenum with rectangular flange; both sides have a circular push-out Ø 150mm that can be removed.

PA_V: Suction plenum with circular plastic flanges; both sides have a circular push-out Ø 150mm that can be removed.

PM_V: Internally insulated delivery plenum with circular flanges; both sides have a circular push-out Ø 150mm that can be removed.

RPM_V: Internally insulated delivery plenum with rectangular flange; both sides have a circular push-out Ø 150mm that can be removed.

Configurator

Field	Description
1,2,3	VED
4,5,6	Size 530, 532, 540, 541, 730, 732, 740, 741

KFV: Circular flanges kit for plenum.

MZCBC: Mandatory electrical system for connecting the MZC plenum with a fan coil fitted with a brushless motor.

Field	Description
7	main heat exchanger
8	Secondary heat exchanger
9	Fans

ACCESSORIES COMPATIBILITY

Control panels and dedicated accessories

Accessory	VED530I	VED532I	VED540I	VED541I	VED730I	VED732I	VED740I	VED741I
AERS03IR (1)	*	*	*	*	*	*	*	*
PRO503	*	*	*	*	*	*	*	*
SA5 (2)	*	*	*	*	*	*	*	*
SW5 (2)	*	*	*	*	*	*	*	*
TX (3)	*	*	*	*	*	*	*	*
WMT21	*	*	*	*	*	*	*	*

(1) Wall-mount installation.

(2) Probe for AERS03IR-TX thermostats, if fitted.

(3) Wall-mounting. If the unit intake exceeds 0.7A, or several units need to be managed with a single thermostat, board SIT3 and/or SIT5 is required.

VMF system

Accessory	VED530I	VED532I	VED540I	VED541I	VED730I	VED732I	VED740I	VED741I
DI24	*	*	*	*	*	*	*	*
VMF-E19I (1)	*	*	*	*	*	*	*	*
VMF-E3	*	*	*	*	*	*	*	*
VMF-E4DX	*	*	*	*	*	*	*	*
VMF-E4X	*	*	*	*	*	*	*	*
VMF-IO	*	*	*	*	*	*	*	*
VMF-IR	*	*	*	*	*	*	*	*
VMF-LON	*	*	*	*	*	*	*	*
VMF-SW	*	*	*	*	*	*	*	*
VMF-SW1	*	*	*	*	*	*	*	*
VMHI	*	*	*	*	*	*	*	*

(1) Mandatory accessory.

The VMF-E19I accessory must be factory installed

Water valves

3 way valve kit

	VED530I	VED532I	VED540I	VED541I	VED730I	VED732I	VED740I	VED741I
3 way valve kit								
Main heat exchanger	VCF45C	VCF45C	VCF45C	VCF45C	VCF47C	VCF47C	VCF47CS	VCF47CS
Secondary heat exchanger for four pipes	-	VCF45H	-	VCF45H	-	VCF47H	-	VCF47H

230V power supply - Hydraulic connection Ø 3/4"

2 way valve kit

	VED530I	VED532I	VED540I	VED541I	VED730I	VED732I	VED740I	VED741I
2 way valve kit								
Main heat exchanger	VCF25C	VCF25C	VCF25C	VCF25C	VCF25C	VCF25C	VCF25CS	VCF25CS
Secondary heat exchanger for four pipes	-	VCF25H	-	VCF25H	-	VCF25H	-	VCF25H

230V power supply - Hydraulic connection Ø 3/4"

2-way globe valves actuator excluded

Accessory	VED530I	VED532I	VED540I	VED541I	VED730I	VED732I	VED740I	VED741I
VCT102	*	*	*	*				
VCT202					*	*	*	*

Actuator 230V

Accessory	VED532I	VED540I	VED541I	VED730I	VED732I	VED740I	VED741I
VCTK	*	*	*	*	*	*	*

Actuator 24V

Accessory	VED532I	VED540I	VED541I	VED730I	VED732I	VED740I	VED741I
VCTKM	*	*	*	*	*	*	*

Combined adjustment and balancing valve cold side

Accessory	VED530I	VED532I	VED540I	VED541I	VED730I	VED732I	VED740I	VED741I
VJP150 (1)	*	*	*	*				
VJP150M (2)	*	*	*	*				
VJP270M (2)					*	*	*	*

(1) 230V ~ 50Hz

(2) 24V

VJP/VJP_M the compatibility of the hot water valves with the designed air flow in a four-pipe installation is to be verified.

Condensate drip

Accessory	VED530I	VED532I	VED540I	VED541I	VED730I	VED732I	VED740I	VED741I
BCV45	*	*	*	*				
BCV67					*	*	*	*

Accessories for intake**Intake plenum with rectangular flanges**

Accessory	VED530I	VED532I	VED540I	VED541I	VED730I	VED732I	VED740I	VED741I
RPA450V	*	*	*	*				
RPA670V					*	*	*	*

Intake plenum with circular flanges

Accessory	VED530I	VED532I	VED540I	VED541I	VED730I	VED732I	VED740I	VED741I
PA450V	*	*	*	*				
PA670V					*	*	*	*

Delivery accessories**Delivery plenum internally insulated, with rectangular flanges**

Accessory	VED530I	VED532I	VED540I	VED541I	VED730I	VED732I	VED740I	VED741I
RPM450V	*	*	*	*				
RPM670V					*	*	*	*

Delivery plenum internally insulated, with circular flanges

Accessory	VED530I	VED532I	VED540I	VED541I	VED730I	VED732I	VED740I	VED741I
PM450V	*	*	*	*				
PM670V					*	*	*	*

Circular flanges kit for plenum

Accessory	VED530I	VED532I	VED540I	VED541I	VED730I	VED732I	VED740I	VED741I
KFV	*	*	*	*	*	*	*	*

MZC**Plenum with motor-driven dampers**

Accessory	VED530I	VED532I	VED540I	VED541I	VED730I	VED732I	VED740I	VED741I
MZCS040	*	*	*	*				
MZC7050					*	*	*	*

Electric plant

Accessory	VED532I	VED540I	VED541I	VED730I	VED732I	VED740I	VED741I
MZCBC	*	*	*	*	*	*	*

PERFORMANCE SPECIFICATIONS

2-pipe

		VED530I			VED540I			VED730I			VED740I		
		1	2	3	1	2	3	1	2	3	1	2	3
		L	M	H	L	M	H	L	M	H	L	M	H
Heating performance 70 °C / 60 °C (1)													
Heating capacity	kW	13,80	16,47	17,57	15,38	18,59	19,91	21,18	25,36	29,00	22,88	27,65	31,71
Water flow rate system side	l/h	1210	1444	1541	1349	1630	1746	1857	2224	2543	2007	2425	2781
Pressure drop system side	kPa	13	18	21	18	25	29	38	55	67	26	36	46
Heating performance 45 °C / 40 °C (2)													
Heating capacity	kW	6,86	8,19	8,74	7,65	9,24	9,90	10,53	12,61	14,22	11,34	27,65	15,81
Water flow rate system side	l/h	1180	1409	1503	1316	1589	1703	1811	2169	2446	1950	2425	2719
Pressure drop system side	kPa	14	19	21	21	25	30	38	52	66	26	36	46
Cooling performance 7 °C / 12 °C													
Cooling capacity	kW	6,05	7,25	7,39	7,31	8,40	8,70	10,25	11,96	13,48	11,81	13,99	15,71
Sensible cooling capacity	kW	4,61	5,57	6,02	4,93	5,99	6,18	8,33	9,75	11,07	8,19	9,73	10,95
Water flow rate system side	l/h	1041	1247	1271	1257	1445	1496	1763	2057	2319	2031	2406	2702
Pressure drop system side	kPa	12	19	21	19	25	28	35	46	58	27	37	45
Fan													
Type	type	Centrifugal											
Fan motor	type	Inverter											
Number	no.	2			2			3			3		
Air flow rate	m³/h	1120	1400	1520	1100	1380	1500	1640	2040	2410	1600	2000	2358
High static pressure	Pa	32	50	58	32	50	56	32	50	69	32	50	69
Input power	W	115	160	205	115	160	205	147	241	370	147	241	370
Signal 0-10V	%	66	76	62	62	76	90	62	76	90	62	76	90
Duct type fan coil sound data (3)													
Sound power level (inlet + radiated)	dB(A)	53,0	59,0	62,0	53,0	59,0	62,0	62,0	66,0	68,0	62,0	66,0	68,0
Sound power level (outlet)	dB(A)	49,0	55,0	58,0	49,0	55,0	58,0	58,0	62,0	64,0	58,0	62,0	64,0
Diametre hydraulic fittings													
Main heat exchanger	Ø	3/4"											
Power supply													
Power supply	230V~50Hz												

(1) Room air temperature 20 °C d.b.; Water (in/out) 70 °C/60 °C

(2) Room air temperature 20 °C d.b.; Water (in/out) 45 °C/40 °C; EUROVENT

(3) Aermec determines the sound power value on the basis of measurements taken in accordance with standard UNI EN 16583:15, respecting the Eurovent certification.

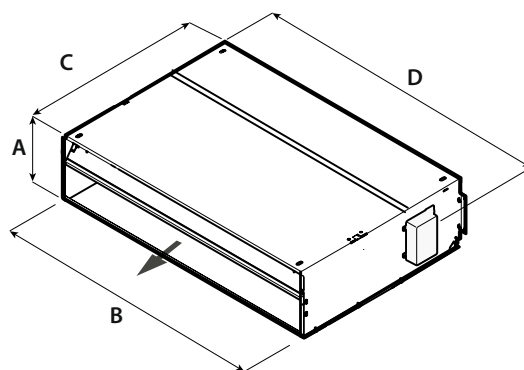
4-pipe

		VED541I			VED741I		
		1	2	3	1	2	3
		L	M	H	L	M	H
Heating performance 65 °C / 55 °C (1)							
Heating capacity	kW	6,70	7,62	7,90	10,57	11,88	12,96
Water flow rate system side	l/h	584	666	692	925	1040	1133
Pressure drop system side	kPa	19	24	26	17	21	25
Cooling performance 7 °C / 12 °C							
Cooling capacity	kW	7,43	8,54	8,97	11,96	14,23	16,08
Sensible cooling capacity	kW	5,04	6,13	6,45	8,34	9,97	11,32
Water flow rate system side	l/h	1278	1469	1543	2057	2448	2766
Pressure drop system side	kPa	21	27	29	27	37	46
Fan							
Type	type	Centrifugal					
Fan motor	type	Inverter					
Number	no.	2			3		
Air flow rate	m³/h	1060	1360	1460	1600	2000	2350
High static pressure	Pa	32	50	56	32	50	69
Input power	W	106	163	185	138	240	363
Signal 0-10V	%	66	84	90	64	78	90
Duct type fan coil sound data (2)							
Sound power level (inlet + radiated)	dB(A)	53,0	59,0	62,0	62,0	66,0	68,0
Sound power level (outlet)	dB(A)	49,0	55,0	58,0	58,0	62,0	64,0
Diameter hydraulic fittings							
Main heat exchanger	Ø	3/4"					
Secondary heat exchanger	Ø	1/2"					
Power supply							
Power supply		230V~50Hz					

(1) Room air temperature 20 °C d.b.; Water (in/out) 65 °C/55 °C; EUROVENT

(2) Aermec determines the sound power value on the basis of measurements taken in accordance with standard UNI EN 16583:15, respecting the Eurovent certification.

DIMENSIONS



		VED530I	VED532I	VED540I	VED541I	VED730I	VED732I	VED740I	VED741I
Dimensions and weights									
A	mm	300	300	300	300	351	351	351	351
B	mm	1133	1133	1133	1133	1533	1533	1533	1533
C	mm	737	737	737	737	789	789	789	789
D	mm	1158	1158	1158	1158	1558	1558	1558	1558
Net weight	kg	42,0	47,0	47,0	47,0	58,0	58,0	61,0	61,0

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VDCA_D

Fan coil unit for ducted installations



- For district cooling applications
- Horizontal and vertical installation
- Built-in sanitization system
- Large range of available static pressure



DESCRIPTION

The ducted range VDCA_D has been designed for air conditioning in environments where the installation of high-performance units with a wide range of useful head and compact dimensions is required. Thanks to the availability of various versions and configurations, it's easy to choose the optimal solution for any requirement.

FEATURES

Ventilation group

Centrifugal fans in anti-static plastic material with aerofoil profile designed to achieve high airflows and pressures whilst at the same time producing low noise.

Their characteristics permit energy savings compared to conventional fans. They are statically and dynamically balanced and directly coupled to the motor shaft.

The electric motor is single-phase multi-speed (3 selectable), mounted on anti-vibration supports and with a permanently inserted capacitor.

Fan housing in plastic material removable for easy and effective cleaning.

Finned pack heat exchanger

The high-efficiency heat exchanger is designed to operate with a high temperature difference, typical of District Cooling solutions.

Controls and Accessoires

To facilitate and streamline installation operations on-site, we have made it possible through the configurator, and therefore at the ordering stage, to receive the unit with certain accessories already pre-installed in the factory.

With copper pipes and aluminum fins, the main heat exchanger has female gas hydraulic connections and is equipped with air vents. The hydraulic connections can be inverted during installation.

Air filter

All fan coils come equipped with an easily removable and cleanable air filter. Various types of air filters are available through the configurator to meet different needs.

Control

The unit's electrical box is reversible, with the option of mounting it also on the same side of the water connections.

The standard equipment includes a single 10-pin control board as an interface for the electrical connections, the preparation for the VMF series thermostat fastener and the included supply of a DIN guide for the installation of a third-party control.

To facilitate and streamline installation operations on-site, we have made it possible through the configurator, and therefore at the ordering stage, to receive the unit with certain accessories already pre-installed in the factory. We redirect your attention to the configurator available on this datasheet or to the unit selection software.

We redirect your attention to the configurator available on this datasheet or to the unit selection software.

GUIDE TO SELECTING THE POSSIBLE CONFIGURATIONS

Field	Description
1,2,3,4	VDCA
5	Size 1, 2, 3, 5, 7
6	main heat exchanger
0	Standard
7	Secondary heat exchanger
0	No present
1	Present
8	Configuration
D	High head
P	Low head
9	Installation
U	Universal
V	Only vertical
10	Position of connections
D	Water connections and electrical panel on the right
G	Water connections and electrical panel on the left
L	Hydraulic connections on the left and electric connections on the opposite side
R	Hydraulic connections on the right and electric connections on the opposite side
11	Use
V	With VMF system
W	Without control board
12	Device / accessoires
H	Electric heater
I	Ioniser
P	Photocatalytic lamp
W	Without devices
13	Filter
B	Basic filter
M	Increased filter
P	Special for units with photocatalytic device
V	With washable mesh filter

ACCESSORIES

Control panels

AER503IR: Flush-mounting thermostat with backlit display, capacitive keypad and infrared receiver, for controlling both brushless fan coils and those with an asynchronous motor. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices (Cold Plasma and germicidal lamp), with radiant plate or with FCZ-D twin delivery (Dualjet). In addition, it can control systems with radiant panels or mixed (fan coil and radiant floor) systems. Being equipped with an infrared receiver, it can, in turn, be controlled by the VMF-IR remote control.

PRO503: Wall box for AER503IR and VMF-E4 thermostats.

SA5: air probe kit (L = 15 m) with probe-locking cable grommet.

SA503: Wall-mountable ambient sensor, compatible with AER503IR.

SIT3: Thermostat Interface Card allowing the creation of a network of fan coils (max. 10) commanded by a central control panel (selector or thermostat). Commands the 3 fan speeds and must be installed on each fan coil within the network; receives the commands from the selector or the SIT5 card. In case you decide to install Aermec thermostats and current absorbed by the unit exceeds 0.7 A, you're obliged to include SIT3 accessory.

SIT5: Thermostat Interface Card allowing the creation of a network of fan coils (max. 10) commanded by a central control panel. Commands the 3 fan speeds and up to 2 valves (four pipe systems); sends the thermostat's commands to the fan coil network.

SW3: Water probe (L = 2.5 m) for controlling the minimum and maximum and to allow automatic seasonal switching for electronic thermostats fitted with water side changeover.

SW5: Water probe kit (L = 15m) with probe-holder connection point, fixing clip and probe-holder from heat exchanger.

TX: Wall-mounting thermostat for controlling either brushless fan coils or those with asynchronous motors for 2/4 pipe. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices, radiant plate or FCZ-D twin delivery (Dualjet).

VMF-RIC: Thermostat interface for fan coil units

VMF Components

DI24: Flush-mounted interface (503 box) with 2.4" touch screen display to be combined with VMF-E19, VMF-E19I accessories. It allows you to regulate

and monitor the temperature inside rooms precisely and on time; in addition to accessing and interacting with your system's operating information, parameters and alarms, it allows you to set time slots. Thanks to its Wi-Fi connection, DI24 in combination with the AerSuite APP (available for Android and iOS) can also be remotely controlled. All programming and most functions are done in a simple and intuitive way using the APP. To allow for customization of the interface so that it seamlessly integrates with the style of any home, DI24 is compatible with switch plates from major brands available on the market. For more information, please refer to our documentation. However, a switch plate with its graphite gray support, DI24CP, is also available as a separate accessory in our catalog.

VMF-E19: Thermostat to be secured to the side of the fan coil, fitted as standard with an air probe and a water probe.

VMF-E3: Wall mounted user interface, to be combined with accessories VMF-E19, VMF-E19I, with grids GLF_N/M and GLL_N, can be controlled with VMF-IR control.

VMF-E4DX: Wall-mounted user interface. Grey front panel PANTONE 425C (METAL).

VMF-E4X: Wall-mounted user interface. Light grey front panel PANTONE COOL GRAY 1C.

VMF-IO: Manage the unit exclusively from a centralized VMF control panel without area control panel.

VMF-IR: User interface compatible with the AER503IR, VMF-E3 thermostat and with all the grids of cassettes equipped with the infrared receiver compatible with the VMF system.

VMF-SW: Water probe (L = 2.5m) used if required in place of the standard unit supplied with the VMF-E19 and VMF-E19I thermostats for mounting it upstream of the valve.

VMF-SW1: Additional water probe (L = 2.5m) to be used if required for 4-pipe systems with the VMF-E19 and VMF-E19I thermostats for maximum control in the cold range

VMHI: The VMHI panel can be used as a user interface for VMF-E19/E19I thermostats, GLFxN/M or GLLxN grids, or as an interface for the MZC system. What determines the function to be performed by the user interface is determined by its correct parametrisation and by following the electrical connections between interface and thermostat or interface and plenum.

Valves and additional water coil

BV: Hot water heat exchanger with 1 row.

VCX_X: 3-way valve kit for fan coils with single heat exchanger and hydraulic connections on the left side, for installation in 4-pipe systems. The kit is composed by 2 insulated 3-way valves and 4 connections complete with electrothermal actuators, insulating shells for the valves and with hydraulic fittings. 230V power supply. Hydraulic connections: Valve body Ø G 3/4" Male; Valve side connection pipes Ø G 3/4" Female; Unit side connection pipes Ø G 3/4" Male.

VCZ: 3-way motorised valve kit for the main coil. The kit is made up of a valve with its insulating shell, actuator and relative hydraulic fittings. It can be installed on fan coils with both right and left connections. If the valve is combined with the BCZ5 or BCZ6 condensate drain pan, to ensure a better housing it is possible to remove the insulating shell.

VCZD: 2-way motorised valve kit. The kit consists of a valve, an actuator and the relative pipe fittings. It can be installed on fan coils with both right and left connections.

VDP: Combined adjustment and balancing valve, for 2 and 4 pipe systems to be installed outside the unit. It is comprised of a valve body without nipples with Ø 3/4" M water connections, a 230 V powered actuator with On-Off function and a 5 m power supply cable. The valve is supplied without connections or hydraulic components.

VCT102: These are 3-way ball valves made of bronze, with female/female connections Ø 1/2". That can be servo-activated via servo commands. The valves do not have fittings and pipes for water connections, which are the installer's responsibility.

VCT103: These are 3-way ball valves made of bronze, with female/female connections Ø 1/2". That can be servo-activated via servo commands. The valves do not have fittings and pipes for water connections, which are the installer's responsibility.

VCTK: The VCT series valves can be combined with the actuators On-Off 230V. The actuator must be selected according to the type of system/adjustment provided.

VCTKM: The VCT series valves can be combined with the actuators 24V modulating. The actuator must be selected according to the type of system/adjustment provided.

Installation accessories

AMP: Wall mounting kit

BCZ: Condensate drip. If the valve is paired with the BCZ5 or BCZ6 condensate drip tray, the insulating shell can be removed to ensure better housing.

DSC: Condensate drainage device.

Accessories for intake

RDA_V: Straight intake connection with rectangular flange.

RDA_C: Straight intake connection with circular flanges.

RPA_V: Suction plenum with rectangular flange; both sides have a circular push-out Ø 150mm that can be removed.

PA_V: Suction plenum with circular plastic flanges; both sides have a circular push-out Ø 150mm that can be removed.

MZC: Plenum with motorised dampers.

MZCACV: Electrical system with relay interface board. Mandatory accessory on units where motor absorption exceeds 0.7 A. The relay interface board is supplied with a 2A fuse to protect the fan coil. If the fan coil absorbs more than 2A and up to 4A, the fuse inside must be replaced with a 4A fuse supplied.

MZCAC: Mandatory electrical system for connecting the MZC plenum with a fan coil fitted with an asynchronous motor.

KFV: Circular flanges kit for plenum.

GA: Intake grid with fixed louvers

GAF: Intake grid with filter and fixed louvers

GM: Flow grid with adjustable louvers.

Delivery accessories

PM_V: Internally insulated delivery plenum with circular flanges; both sides have a circular push-out Ø 150mm that can be removed.

RPM_V: Internally insulated delivery plenum with rectangular flange; both sides have a circular push-out Ø 150mm that can be removed.

RDM_V: Straight delivery coupling in galvanised sheet metal.

RDM_C: Straight discharge internally insulated, with circular flanges.

ACCESSORIES COMPATIBILITY

Control panels and dedicated accessories

Accessory	VDCB100D	VDCB200D	VDCB300D	VDCB500D	VDCB700D
AER503IR (1)	*	*	*	*	*
F3VU	*	*	*	*	*
PRO503	*	*	*	*	*
SAS (2)	*	*	*	*	*
SAS03 (3)	*	*	*	*	*
SW3 (2)	*	*	*	*	*
SW5 (2)	*	*	*	*	*
TX (4)	*	*	*	*	*
VMF-RIC	*	*	*	*	*

(1) Wall-mount installation.

(2) Probe for AER503IR-TX thermostats, if fitted.

(3) Thermostat probe for AER503IR if available.

(4) Wall-mounting. If the unit intake exceeds 0.7A, or several units need to be managed with a single thermostat, board SIT3 and/or SIT5 is required.

VMF system

VMF system

Accessory	VDCA100D	VDCA200D	VDCA300D	VDCA500D	VDCA700D
DI24	*	*	*	*	*
VMF-E19 (1)	*	*	*	*	*
VMF-E3	*	*	*	*	*
VMF-E4DX	*	*	*	*	*
VMF-E4X	*	*	*	*	*
VMF-IO	*	*	*	*	*
VMF-IR	*	*	*	*	*
VMF-SW	*	*	*	*	*
VMF-SW1	*	*	*	*	*
VMHI	*	*	*	*	*

(1) Also the accessory VMF-SIT3V is mandatory if the unit exceeds 0.7 Amperes.

(Heating only) additional heat exchanger

Accessory	VDCA100D	VDCA200D	VDCA300D
BV130 (1)	*		
BV162 (1)			*
BV230 (1)		*	

(1) Not available for sizes with oversized main coil.

Water valves

Valve Kit for 4 pipe systems with main coil

Accessory	VDCA100D	VDCA200D	VDCA300D
VCF3X4L	•	•	•
VCF3X4R	•	•	•

3 way valve kit

	VDCA100D	VDCA200D	VDCA300D	VDCA500D	VDCA700D
3 way valve kit					
Main heat exchanger	VCZ43 / VCZ4324	VCZ43 / VCZ4324	VCZ43 / VCZ4324	VCF45CS	VCF45CS
Secondary heat exchanger for four pipes	-	-	-	-	-
Additional coil "BV"	VCF45 / VCF4524	VCF45 / VCF4524	VCF45 / VCF4524	-	-

VCZ43 - VCF45 - VCF45H - VCF47H Alimentazione 230V - VCZ4324 - VCF4524 Power supply 24V - Hydraulic connection Ø 3/4"

2 way valve kit

	VDCA100D	VDCA200D	VDCA300D
2 way valve kit			
Main heat exchanger	VCZD3 / VCZD324	VCZD3 / VCZD324	VCZD3 / VCZD324
Secondary heat exchanger for four pipes	-	-	-
Additional coil "BV"	VCFD4 / VCFD424	VCFD4 / VCFD424	VCFD4 / VCFD424

VCZD3 - VCFD4 Power supply 230V - VCZD324 - VCFD424 Power supply 24V
- Hydraulic connection Ø 3/4"

Combined adjustment and balancing valve cold side

Accessory	VDCA100D	VDCA200D	VDCA300D	VDCA500D	VDCA700D
VDP15	•	•	•	•	•
VDP15HF (1)	•	•	•	•	•
VDP15LF	•	•	•		
VDP20HF				•	•

(1) The compatibility of the valves with the unit must be checked using the project capacity.
Select the appropriate valve based on the project water flow rate.

2-way globe valves actuator excluded

Accessory	VDCA500D	VDCA700D
VCT103	•	•
Accessory	VDCA500D	VDCA700D
VCT102	•	•
Accessory	VDCA500D	VDCA700D
VCTK	•	•
Accessory	VDCA500D	VDCA700D
VCTKM	•	•

Installation accessories

Installation accessories

Accessory	VDCA100D	VDCA200D	VDCA300D
AMP	•	•	•

Condensate drip

Accessory	VDCA100D	VDCA200D	VDCA300D
BCZ4 (1)	•	•	•
BCZ6 (2)	•	•	•

(1) For vertical installation.
(2) For horizontal installation.

Accessory	VDCA100D	VDCA200D	VDCA300D
BC9 (1)	•	•	•

(1) For horizontal installation.

Accessory	VDCA500D	VDCA700D
BCV45	•	
BCV67		•

Condensate recirculation device

Accessory	VDCA100D	VDCA200D	VDCA300D
DSCZ4 (1)	•	•	•

(1) DSCZ4 due to space problems inside the unit, the VCZ1-2-3-4 X4L/R valves cannot be mounted together with the amp/AMPZ accessories, with all the condensate collection trays. With the VMF-E19/E19I thermostats, please contact the head office.

Accessories for intake

Intake straight with rectangular flanges

Accessory	VDCA100D	VDCA200D	VDCA300D	VDCA500D	VDCA700D
RDA100V	.				
RDA200V		.			
RDA300V			.		
RDA450V				.	
RDA670V					.

Intake straight internally insulated, with circular flanges

Accessory	VDCA100D	VDCA200D	VDCA300D	VDCA500D	VDCA700D
RDAC100V	.				
RDAC200V		.			
RDAC300V					.

Intake plenum with rectangular flanges

Accessory	VDCA100D	VDCA200D	VDCA300D	VDCA500D	VDCA700D
RPA100V	.				
RPA200V		.			
RPA300V			.		
RPA450V				.	
RPA670V					.

Intake plenum with circular flanges

Accessory	VDCA100D	VDCA200D	VDCA300D	VDCA500D	VDCA700D
PA100V	.				
PA200V		.			
PA300V			.		
PA450V				.	
PA670V					.

Circular flanges kit for plenum

Accessory	VDCA100D	VDCA200D	VDCA300D	VDCA500D	VDCA700D
KFV				.	.
KFV10	.	.	.		

Intake grids

Accessory	VDCA100D	VDCA200D	VDCA300D	VDCA500D	VDCA700D
GA32	.				
GA42			.		
GA62					.

Intake grid with filter and fixed louvers

Accessory	VDCA100D	VDCA200D	VDCA300D	VDCA500D	VDCA700D
GAF32	.				
GAF42			.		
GAF62					.

Flow grid with adjustable louvers

Accessory	VDCA100D	VDCA200D	VDCA300D	VDCA500D	VDCA700D
GM32	.				
GM42			.		
GM62					.

Delivery accessories

Delivery plenum internally insulated, with circular flanges

Accessory	VDCA100D	VDCA200D	VDCA300D	VDCA500D	VDCA700D
PM100V	.				
PM200V		.			
PM300V			.		
PM450V				.	
PM670V					.

Delivery plenum internally insulated, with rectangular flanges

Accessory	VDCA100D	VDCA200D	VDCA300D	VDCA500D	VDCA700D
RPM100V	.				
RPM200V		.			
RPM300V			.		
RPM450V				.	
RPM670V					.

Straight delivery coupling

Accessory	VDCA100D	VDCA200D	VDCA300D
RDM100V	•		
RDM200V		•	
RDM300V			•

Delivery straight internally insulated, with circular flanges

Accessory	VDCA100D	VDCA200D	VDCA300D
RDMC100V	•		
RDMC200V		•	
RDMC300V			•

Plenum with motor-driven dampers

Accessory	VDCA100D	VDCA200D	VDCA300D	VDCA500D	VDCA700D
MZC320	•				
MZC5040				•	
MZC530		•			
MZC7050					•
MZC830			•		

Electrical system with relays

Accessory	VDCA500D	VDCA700D
MZCAV (1)	•	•

(1) It is mandatory to use MZCAV if the intake of the unit combined with the MZC accessory exceeds 0.7 Ampere.

Electric plant

Accessory	VDCA100D	VDCA200D	VDCA300D	VDCA500D	VDCA700D
MZCAC	•	•	•	•	•

PERFORMANCE SPECIFICATIONS**2-pipe**

	VDCA100D					VDCA200D					VDCA300D					VDCA500D					VDCA700D				
	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
	UL	L	M	H	HH	UL	L	M	H	HH	UL	L	M	H	HH	UL	L	M	H	HH	UL	L	M	H	HH

Heating performances 45 °C / 35 °C (1)

Heating capacity	kW	1,57	1,79	2,58	2,81	4,03	2,74	2,95	3,80	4,08	5,34	3,46	4,15	5,46	5,69	6,66	4,44	5,15	7,02	8,21	10,11	8,25	10,00	12,63	14,62	16,67
Water flow rate system side	l/h	136	156	224	244	350	238	256	330	354	463	300	360	474	494	578	386	447	609	713	877	716	868	1096	1269	1447
Pressure drop system side	kPa	7	9	17	19	37	23	26	40	46	74	11	16	26	28	37	6	8	14	18	26	9	13	20	26	33

Cooling performance 5.5 °C / 14.5 °C (2)

Cooling capacity	kW	1,21	1,38	1,98	2,16	3,10	2,11	2,27	2,92	3,13	4,10	2,66	3,19	4,20	4,38	5,12	3,42	3,96	5,40	6,31	7,77	6,34	7,69	9,71	11,23	12,81
Sensible cooling capacity	kW	0,90	1,03	1,51	1,65	2,46	1,52	1,64	2,16	2,33	3,15	2,00	2,43	3,28	3,44	4,11	2,44	2,81	3,77	4,39	5,44	4,98	5,88	7,20	8,19	9,27
Water flow rate system side	l/h	115	132	190	207	296	202	217	279	299	392	254	305	401	418	489	327	378	516	603	743	606	735	928	1074	1225
Pressure drop system side	kPa	6	7	14	17	32	19	22	35	39	64	10	13	22	24	32	5	7	12	16	23	8	11	17	22	28

Cooling performances 9 °C / 18 °C (3)

Cooling capacity	kW	0,79	0,91	1,30	1,42	2,04	1,39	1,49	1,92	2,06	2,69	1,75	2,09	2,76	2,88	3,36	2,24	2,60	3,55	4,15	5,10	4,17	5,05	6,38	7,38	8,42
Sensible cooling capacity	kW	0,75	0,86	1,27	1,39	2,04	1,27	1,38	1,81	1,95	2,64	1,68	2,04	2,75	2,88	3,36	2,05	2,36	3,16	3,69	4,56	4,17	4,93	6,04	6,88	7,78
Water flow rate system side	l/h	76	86	125	136	195	132	142	183	197	257	167	200	264	275	321	214	249	339	396	488	398	483	610	705	805
Pressure drop system side	kPa	3	3	7	8	15	9	10	16	19	30	5	6	10	11	15	2	3	6	7	11	4	5	8	10	13

Fan

Type	type	Centrifugal					Centrifugal					Centrifugal					Centrifugal					Centrifugal				
Fan motor	type	Asynchronous					Asynchronous					Asynchronous					Asynchronous					Asynchronous				
Number	no.	2					2					3					2					3				
Air flow rate	m³/h	260	288	398	435	680	400	436	585	635	870	500	606	840	886	1100	800	911	1204	1393	1700	1400	1621	2017	2380	2800
High static pressure	Pa	32	26	50	60	24	34	28	50	59	30	45	26	50	56	37	50	29	50	67	35	63	32	50	70	44
Input power	W	33	34	52	75	85	43	44	67	95	107	54	61	87	98	120	137	144	198	259	282	217	233	285	371	408
Electrical wiring		1	1	4	6	6	1	1	4	6	6	1	1	4	6	7	1	1	3	5	5	1	1	3	5	5

Duct type fan coil sound data (4)

Sound power level (inlet + radiated)	dB(A)	47,0	46,0	53,0	54,0	55,0	50,0	49,0	56,0	57,0	59,0	54,0	52,0	58,0	59,0	61,0	52,0	51,0	57,0	63,0	61,0	63,0	62,0	66,0	68,0	68,0
Sound power level (outlet)	dB(A)	45,0	44,0	50,0	52,0	54,0	48,0	48,0	55,0	56,0	59,0	52,0	50,0	57,0	58,0	60,0	48,0	47,0	53,0	59,0	57,0	58,0	58,0	62,0	64,0	63,0

Diameter hydraulic fittings

Main heat exchanger	Ø	3/4"					3/4"					3/4"					3/4"					3/4"				
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Power supply

Power supply		230V~50Hz					230V~50Hz					230V~50Hz					230V~50Hz					230V~50Hz				
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(1) Room air temperature 20 °C d.b.; Water (in/out) 45 °C/35 °C;

(2) Room air temperature 24 °C d.b./18 °C w.b.; Water (in/out) 5.5 °C/14.5 °C; EUROVENT

(3) Room air temperature 26 °C d.b./18.6 °C w.b.; Water (in/out) 9 °C/18 °C; EUROVENT

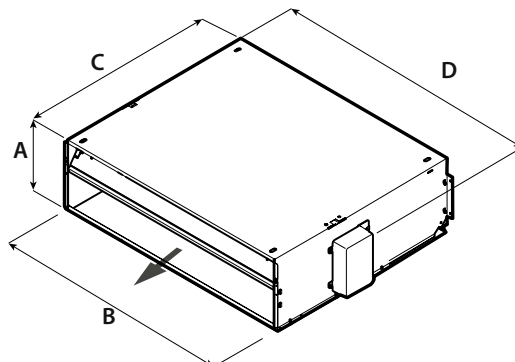
(4) Aermec determines the sound power value on the basis of measurements taken in accordance with standard UNI EN 16583:15, respecting the Eurovent certification.

Eurovent certified speed: H,M,L

Only for units configured with electric heater (field 12 of the configurator, option H)

		VDCA100D	VDCA200D	VDCA300D	VDCA500D	VDCA700D
Electric heater						
Number	no.	1	1	1	1	1
Heating power	kW	1310	1970	2190	2920	4000

DIMENSIONS



		VDCA100D	VDCA200D	VDCA300D	VDCA500D	VDCA700D
Dimensions and weights						
A	mm	217	217	217	300	351
B	mm	781	1001	1122	1133	1153
C	mm	584	584	584	737	789
D	mm	807	1027	1148	1158	1558

Aermec reserves the right to make any modifications deemed necessary.
All data is subject to change without notice. Aermec does not assume responsibility or liability for errors or omissions.

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VDCB_D

Fan coil unit for ducted installations



- For district cooling applications
- Horizontal and vertical installation
- Built-in sanitization system
- Large range of available static pressure



DESCRIPTION

The ducted range VDCB has been designed for air conditioning in environments where the installation of high-performance units with a wide range of useful head and compact dimensions is required. Thanks to the availability of various versions and configurations, it's easy to choose the optimal solution for any requirement.

FEATURES

Ventilation group

Centrifugal fans in anti-static plastic material with aerofoil profile designed to achieve high airflows and pressures whilst at the same time producing low noise.

Their characteristics permit energy savings compared to conventional fans. They are statically and dynamically balanced and directly coupled to the motor shaft.

The Brushless electric motor with 0-100% continuous speed variation, which allows precise adaptation to the real demands of the internal environment without temperature fluctuations.

The air flow can be continuously changed through a 1-10 V signal, coming from adjustment and control commands Aerme or from independent adjustment systems.

This lowers noise and generates a better response to heat loads and a higher stability in the desired temperature inside the room.

The high efficiency even with low speed, makes it possible to reduce power consumption (more than 50% less than fan coils with traditional motors).

The plastic augers are extractable for easy and efficient cleaning.

Finned pack heat exchanger

The high-efficiency heat exchanger is designed to operate with a high temperature difference, typical of District Cooling solutions.

With copper pipes and aluminum fins, the main heat exchanger has female gas hydraulic connections and is equipped with air vents.

The hydraulic connections can be inverted during installation.

Air filter

All fan coils come equipped with an easily removable and cleanable air filter. Various types of air filters are available through the configurator to meet different needs.

Controls and Accessoires

The unit's electrical box is reversible, with the option of mounting it also on the same side of the water connections.

The standard equipment includes a single 10-pin control board as an interface for the electrical connections, the preparation for the VMF series thermostat fastener and the included supply of a DIN guide for the installation of a third-party control.

To facilitate and streamline installation operations on-site, we have made it possible through the configurator, and therefore at the ordering stage, to receive the unit with certain accessories already pre-installed in the factory. We redirect your attention to the configurator available on this datasheet or to the unit selection software.

GUIDE TO SELECTING THE POSSIBLE CONFIGURATIONS

Field	Description
1,2,3,4	VDCB
5	Size 1, 2, 3, 5, 7
6	main heat exchanger
0	Standard
7	Secondary heat exchanger
0	No present
1	Present
8	Configuration
D	Low head
P	High head
9	Installation
U	Universal
V	Only vertical
10	Position of connections
D	Water connections and electrical panel on the right
G	Water connections and electrical panel on the left
L	Hydraulic connections on the left and electric connections on the opposite side
R	Hydraulic connections on the right and electric connections on the opposite side
11	Use
V	With VMF system
W	Without control board
12	Device / accessoires
H	Electric heater
I	Ioniser
P	Photocatalytic lamp
W	Without devices
13	Filter
M	With increased filter
P	Special for units with photocatalytic device
S	With basic filter
V	With washable mesh filter

ACCESSORIES

Control panels

AER503IR: Flush-mounting thermostat with backlit display, capacitive keypad and infrared receiver, for controlling both brushless fan coils and those with an asynchronous motor. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices (Cold Plasma and germicidal lamp), with radiant plate or with FCZ-D twin delivery (Dualjet). In addition, it can control systems with radiant panels or mixed (fan coil and radiant floor) systems. Being equipped with an infrared receiver, it can, in turn, be controlled by the VMF-IR remote control.

F3VU: interface board to receive 3 separate voltage commands (corresponding to 3 speeds) and converting them into three analog voltages in the range of 0-10V.

PRO503: Wall box for AER503IR and VMF-E4 thermostats.

SA5: air probe kit (L = 15 m) with probe-locking cable grommet.

SA503: Wall-mountable ambient sensor, compatible with AER503IR.

SW5: water probe kit (L = 15m) with probe-holder connection point, fixing clip and probe-holder from heat exchanger.

TX: Wall-mounting thermostat for controlling either brushless fan coils or those with asynchronous motors for 2/4 pipe. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices, radiant plate or FCZ-D twin delivery (Dualjet).

VMF-RIC: Thermostat interface for fan coil units

VMF Components

DI24: Flush-mounted interface (503 box) with 2.4" touch screen display to be combined with VMF-E19, VMF-E19I accessories. It allows you to regulate and monitor the temperature inside rooms precisely and on time; in addition to accessing and interacting with your system's operating information, parameters and alarms, it allows you to set time slots. Thanks to its Wi-Fi connection, DI24 in combination with the AerSuite APP (available for Android and iOS) can also be remotely controlled. All programming and most functions are done in a simple and intuitive way using the APP. To allow for customization of the interface so that it seamlessly integrates with the style of any home, DI24 is compatible with switch plates from major brands available on the market. For more information, please refer to our documentation. However, a switch plate with its graphite gray support, DI24CP, is also available as a separate accessory in our catalog.

VMF-E19I: Thermostat for inverter unit to be fixed on the side of the fan coil, fitted as standard with an air and water probe.

VMF-E3: Wall mounted user interface, to be combined with accessories VMF-E19, VMF-E19I, with grids GLF_N/M and GLL_N, can be controlled with VMF-IR control.

VMF-E4DX: Wall-mounted user interface. Grey front panel PANTONE 425C (METAL).

VMF-E4X: Wall-mounted user interface. Light grey front panel PANTONE COOL GRAY 1C.

VMF-IO: Manage the unit exclusively from a centralized VMF control panel without area control panel.

VMF-IR: User interface compatible with the AER503IR, VMF-E3 thermostat and with all the grids of cassettes equipped with the infrared receiver compatible with the VMF system.

VMF-SW: Water probe (L = 2.5m) used if required in place of the standard unit supplied with the VMF-E19 and VMF-E19I thermostats for mounting it upstream of the valve.

VMF-SW1: Additional water probe (L = 2.5m) to be used if required for 4-pipe systems with the VMF-E19 and VMF-E19I thermostats for maximum control in the cold range

VMHI: The VMHI panel can be used as a user interface for VMF-E19/E19I thermostats, GLFxN/M or GLLxN grids, or as an interface for the MZC system. What determines the function to be performed by the user interface is determined by its correct parametrisation and by following the electrical connections between interface and thermostat or interface and plenum.

Valves and additional finned-pack heat exchanger for water

BV: Hot water heat exchanger with 1 row.

VCF_X: 3-way valve kit for fan coils with single heat exchanger and hydraulic connections on the left side, for installation in 4-pipe systems. The kit is composed by 2 insulated 3-way valves and 4 connections complete with electrothermal actuators, insulating shells for the valves and with hydraulic fittings. 230V power supply. Hydraulic connections: Valve body Ø G 3/4" Male; Valve side connection pipes Ø G 3/4" Female; Unit side connection pipes Ø G 3/4" Male.

VCZ: 3-way motorised valve kit for the main coil. The kit is made up of a valve with its insulating shell, actuator and relative hydraulic fittings. It can

be installed on fan coils with both right and left connections. If the valve is combined with the BCZ5 or BCZ6 condensate drain pan, to ensure a better housing it is possible to remove the insulating shell.

VCZD: 2-way motorised valve kit. The kit consists of a valve, an actuator and the relative pipe fittings. It can be installed on fan coils with both right and left connections.

VDP: Combined adjustment and balancing valve, for 2 and 4 pipe systems to be installed outside the unit. It is comprised of a valve body without nipples with Ø 3/4" M water connections, a 230 V powered actuator with On-Off function and a 5 m power supply cable. The valve is supplied without connections or hydraulic components.

VCT102: These are 3-way ball valves made of bronze, with female/female connections Ø 1/2". That can be servo-activated via servo commands. The valves do not have fittings and pipes for water connections, which are the installer's responsibility.

VCT103: These are 3-way ball valves made of bronze, with female/female connections Ø 1/2". That can be servo-activated via servo commands. The valves do not have fittings and pipes for water connections, which are the installer's responsibility.

VCTK: The VCT series valves can be combined with the actuators On-Off 230V. The actuator must be selected according to the type of system/adjustment provided.

VCTKM: The VCT series valves can be combined with the actuators 24V modulating. The actuator must be selected according to the type of system/adjustment provided.

Installation accessories

AMP: Wall mounting kit

BCZ: Condensate drip. If the valve is paired with the BCZ5 or BCZ6 condensate drip tray, the insulating shell can be removed to ensure better housing.

DSC: Condensate drainage device.

Accessories for intake

RDA_V: Straight intake connection with rectangular flange.

RDA_C: Straight intake connection with circular flanges.

RPA_V: Suction plenum with rectangular flange; both sides have a circular push-out Ø 150mm that can be removed.

PA_V: Suction plenum with circular plastic flanges; both sides have a circular push-out Ø 150mm that can be removed.

MZC: Plenum with motorised dampers.

KFV: Circular flanges kit for plenum.

GA: Intake grid with fixed louvers

GAF: Intake grid with filter and fixed louvers

GM: Flow grid with adjustable louvers.

Delivery accessories

PM_V: Internally insulated delivery plenum with circular flanges; both sides have a circular push-out Ø 150mm that can be removed.

RPM_V: Internally insulated delivery plenum with rectangular flange; both sides have a circular push-out Ø 150mm that can be removed.

RDM_V: Straight delivery coupling in galvanised sheet metal.

ACCESSORIES COMPATIBILITY

Control panels and dedicated accessories

Accessory	VDCB100D	VDCB200D	VDCB300D	VDCB500D	VDCB700D
AER503IR (1)	•	•	•	•	•
F3VU	•	•	•	•	•
PRO503	•	•	•	•	•
SA5 (2)	•	•	•	•	•
SA503 (3)	•	•	•	•	•
SW3 (2)	•	•	•	•	•
SW5 (2)	•	•	•	•	•
TX (4)	•	•	•	•	•
VMF-RIC	•	•	•	•	•

(1) Wall-mount installation.

(2) Probe for AER503IR-TX thermostats, if fitted.

(3) Thermostat probe for AER503IR if available.

(4) Wall-mounting. If the unit intake exceeds 0.7A, or several units need to be managed with a single thermostat, board SIT3 and/or SIT5 is required.

VMF system

To manage and control a VMF system, it is mandatory to include the VMF-E19I accessory on board the fan coil unit.

VMF system

Accessory	VDCB100D	VDCB200D	VDCB300D	VDCB500D	VDCB700D
DI24	•	•	•	•	•
VMF-E19I (1)	•	•	•	•	•
VMF-E3	•	•	•	•	•
VMF-E4DX	•	•	•	•	•
VMF-E4X	•	•	•	•	•
VMF-IO	•	•	•	•	•
VMF-IR	•	•	•	•	•
VMF-SW	•	•	•	•	•
VMF-SW1	•	•	•	•	•
VMHI	•	•	•	•	•

(1) Mandatory accessory.

(Heating only) additional coil

Accessory	VDCB100D	VDCB200D	VDCB300D
BV130 (1)	•		
BV162 (1)			•
BV230 (1)		•	

(1) Not available for sizes with oversized main coil.

Water valves

3 way valve kit

	VDCB100D	VDCB200D	VDCB300D	VDCB500D	VDCB700D
3 way valve kit					
Main heat exchanger	VCZ43 / VCZ4324	VCZ43 / VCZ4324	VCZ43 / VCZ4324	VCZ45CS	VCZ45CS
Secondary heat exchanger for four pipes	-	-	-	-	-
Additional coil "BV"	VCF45 / VCF4524	VCF45 / VCF4524	VCF45 / VCF4524	-	-

VCZ43 - VCF45 - VCF45H - VCF47H Alimentazione 230V - VCZ4324 - VCF4524 Power supply 24V - Hydraulic connection Ø 3/4"

2 way valve kit

	VDCB100D	VDCB200D	VDCB300D	VDCB500D	VDCB700D
2 way valve kit					
Main heat exchanger	VCZD3 / VCZD324	VCZD3 / VCZD324	VCZD3 / VCZD324	-	-
Secondary heat exchanger for four pipes	-	-	-	-	-
Additional coil "BV"	VCFD4 / VCFD424	VCFD4 / VCFD424	VCFD4 / VCFD424	-	-

VCFD3 Power supply 230V, VCFD324 Power supply 24V - Hydraulic connections Ø 3/4"

VCFD4 Power supply 230V, VCFD424 Power supply 24V - Hydraulic connections Ø 1/2"; For additional coil (heating only) BV.

Combined adjustment and balancing valve cold side

Accessory	VDCB100D	VDCB200D	VDCB300D	VDCB500D	VDCB700D
VDP15	•	•	•	•	•
VDP15HF (1)	•	•	•	•	•
VDP15LF	•	•	•		
VDP20HF				•	•

(1) The compatibility of the valves with the unit must be checked using the project capacity.

Select the appropriate valve based on the project water flow rate.

2-way globe valves actuator excluded

Accessory	VDCB500D	VDCB700D
VCT103	•	•

Accessory	VDCB500D	VDCB700D
VCT102	*	*
Accessory	VDCB500D	VDCB700D
VCTK	*	*
Accessory	VDCB500D	VDCB700D
VCTKM	*	*

Installation accessories

Installation accessories

Accessory	VDCB100D	VDCB200D	VDCB300D
AMP	*	*	*

Condensate drip

Accessory	VDCB100D	VDCB200D	VDCB300D
BCZ4 (1)	*	*	*
BCZ6 (2)	*	*	*

(1) For vertical installation.
(2) For horizontal installation.

Accessory	VDCB100D	VDCB200D	VDCB300D
BC9 (1)	*	*	*

(1) For horizontal installation.

Accessory	VDCB500D	VDCB700D
BCV45	*	
BCV67		*

Condensate recirculation device

Accessory	VDCB100D	VDCB101D	VDCB200D	VDCB300D	VDCB301D
DSCZ4	*	*	*	*	*

Accessories for intake

Intake straight with rectangular flanges

Accessory	VDCB100D	VDCB200D	VDCB300D	VDCB500D	VDCB700D
RDA100V	*				
RDA200V		*			
RDA300V			*		
RDA450V				*	
RDA670V					*

Intake straight internally insulated, with circular flanges

Accessory	VDCB100D	VDCB200D	VDCB300D
RDAC100V	*		
RDAC200V		*	
RDAC300V			*

Intake plenum with rectangular flanges

Accessory	VDCB100D	VDCB200D	VDCB300D	VDCB500D	VDCB700D
RPA100V	*				
RPA200V		*			
RPA300V			*		
RPA450V				*	
RPA670V					*

Intake plenum with circular flanges

Accessory	VDCB100D	VDCB200D	VDCB300D	VDCB500D	VDCB700D
PA100V	*				
PA200V		*			
PA300V			*		
PA450V				*	
PA670V					*

Intake grids

Accessory	VDCB100D	VDCB200D	VDCB300D
GA32	*		
GA42		*	
GA62			*

Intake grid with filter and fixed louvers

Accessory	VDCB100D	VDCB200D	VDCB300D
GAF32	.		
GAF42		.	
GAF62			.

Flow grid with adjustable louvers

Accessory	VDCB100D	VDCB200D	VDCB300D
GM32	.		
GM42		.	
GM62			.

Delivery accessories**Plenum with motor-driven dampers**

Accessory	VDCB100D	VDCB200D	VDCB300D	VDCB500D	VDCB700D
MZC320	.				
MZC5040				.	
MZC530		.			
MZC7050					.
MZC830			.		

Delivery plenum internally insulated, with circular flanges

Accessory	VDCB100D	VDCB200D	VDCB300D	VDCB500D	VDCB700D
PM100V	.				
PM200V		.			
PM300V			.		
PM450V				.	
PM670V					.

Delivery plenum internally insulated, with rectangular flanges

Accessory	VDCB100D	VDCB200D	VDCB300D	VDCB500D	VDCB700D
RPM100V	.				
RPM200V		.			
RPM300V			.		
RPM450V				.	
RPM670V					.

Delivery straight internally insulated, with circular flanges

Accessory	VDCB100D	VDCB200D	VDCB300D
RDMC100V	.		
RDMC200V		.	
RDMC300V			.

Straight delivery coupling

Accessory	VDCB100D	VDCB200D	VDCB300D
RDM100V	.		
RDM200V		.	
RDM300V			.

Circular flanges kit for plenum

Accessory	VDCB100D	VDCB200D	VDCB300D	VDCB500D	VDCB700D
KFV				.	.
KFV10	.	.	.		

PERFORMANCE SPECIFICATIONS

2-pipe

		VDCB100D					VDCB200D					VDCB300D					VDCB500D					VDCB700D					
		1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	
		UL	L	M	H	HH	UL	L	M	H	HH	UL	L	M	H	HH	UL	L	M	H	HH	UL	L	M	H	HH	
Heating performances 45 °C / 35 °C (1)																											
Heating capacity	kW	1,04	1,79	2,58	2,82	4,49	2,18	2,96	3,80	4,08	5,97	2,75	4,14	5,46	5,70	7,06	3,18	5,17	7,02	8,22	11,87	4,37	9,98	12,63	14,64	18,63	
Water flow rate system side	l/h	90	155	224	245	390	189	257	329	354	518	238	360	474	495	613	276	449	609	713	1030	379	866	1096	1271	1617	
Pressure drop system side	kPa	3	9	17	19	45	15	26	40	46	91	7	16	26	28	41	3	8	14	18	35	3	13	20	26	40	
Cooling performance 5.5 °C / 14.5 °C (2)																											
Cooling capacity	kW	0,80	1,37	1,98	2,17	3,45	1,67	2,27	2,92	3,13	4,59	2,11	3,18	4,20	4,38	5,43	2,44	3,97	5,40	6,31	9,12	3,35	7,67	9,71	11,25	14,32	
Sensible cooling capacity	kW	0,59	1,03	1,51	1,66	2,80	1,19	1,64	2,15	2,33	3,58	1,57	2,43	3,28	3,44	4,40	1,77	2,82	3,77	4,40	6,51	2,93	5,86	7,20	8,20	10,39	
Water flow rate system side	l/h	77	131	190	207	330	160	217	279	300	439	202	304	401	419	519	233	380	516	604	872	321	733	928	1075	1369	
Pressure drop system side	kPa	3	7	14	17	39	13	22	35	40	79	6	13	22	24	35	3	7	12	16	30	3	11	17	22	34	
Cooling performances 9 °C / 18 °C (3)																											
Cooling capacity	kW	0,53	0,90	1,30	1,42	2,27	1,10	1,49	1,92	2,06	3,02	1,39	2,09	2,76	2,88	3,57	1,60	2,61	3,55	4,15	5,99	2,20	5,04	6,38	7,39	9,41	
Sensible cooling capacity	kW	0,49	0,86	1,27	1,39	2,27	1,00	1,38	1,81	1,96	3,01	1,32	2,04	2,75	2,88	3,57	1,48	2,36	3,17	3,69	5,47	2,20	4,92	6,04	6,89	8,72	
Water flow rate system side	l/h	50	86	125	136	217	105	143	183	197	288	133	200	264	275	341	153	249	339	397	573	211	481	610	706	899	
Pressure drop system side	kPa	1	3	7	8	18	6	10	16	19	37	3	6	10	11	16	1	3	6	7	14	1	5	8	10	16	
Fan																											
Type	type	Centrifugal					Centrifugal					Centrifugal					Centrifugal					Centrifugal					
Fan motor	type	Inverter					Inverter					Inverter					Inverter					Inverter					
Number	no.	2					2					3					2					3					
Air flow rate	m³/h	200	287	398	436	800	300	437	585	635	1000	400	606	840	888	1200	600	913	1204	1393	2000	1000	1617	2017	2384	3200	
High static pressure	Pa	9	26	50	60	43	6	28	50	59	34	3	26	50	56	16	9	29	50	67	19	5	32	50	70	79	
Input power	W	7	15	30	37	80	10	23	45	55	100	14	35	76	93	121	18	50	103	155	249	31	100	166	255	471	
Signal 0-10V	%	30	49	69	76	90	30	55	74	81	90	30	61	85	90	90	30	49	66	76	90	30	53	65	75	90	
Duct type fan coil sound data (4)																											
Sound power level (inlet + radiated)	dB(A)	35,0	46,0	53,0	54,0	59,0	40,0	50,0	56,0	57,0	62,0	41,0	52,0	58,0	60,0	61,0	44,0	53,0	60,0	63,0	65,0	49,0	62,0	66,0	69,0	73,0	
Sound power level (outlet)	dB(A)	33,0	44,0	50,0	52,0	57,0	37,0	48,0	55,0	56,0	60,0	39,0	50,0	57,0	58,0	60,0	40,0	51,0	57,0	60,0	64,0	43,0	56,0	62,0	66,0	69,0	
Power supply																											
Power supply		230V~50Hz					230V~50Hz					230V~50Hz					230V~50Hz					230V~50Hz					

(1) Room air temperature 20 °C d.b.; Water (in/out) 45 °C/35 °C;

(2) Room air temperature 24 °C d.b./18 °C w.b.; Water (in/out) 5.5 °C/14.5 °C; EUROVENT

(3) Room air temperature 26 °C d.b./18.6 °C w.b.; Water (in/out) 9 °C/18 °C; EUROVENT

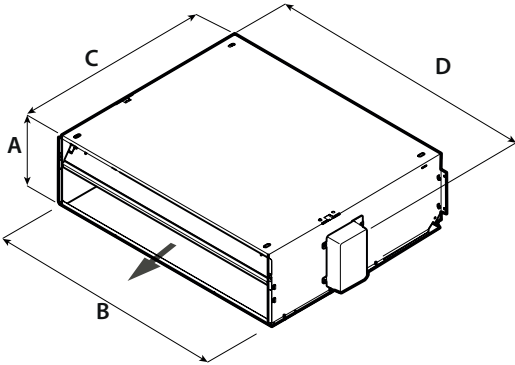
(4) Aermec determines the sound power value on the basis of measurements taken in accordance with standard UNI EN 16583:15, respecting the Eurovent certification.

Eurovent certified speed: H,M,L

Only for units configured with electric heater (field 12 of the configurator, option H)

		VDCB100D	VDCB200D	VDCB300D	VDCB500D	VDCB700D
Electric heater						
Number	no.	1	1	1	1	1
Heating power	kW	1310	1970	2190	2920	4000

DIMENSIONS



		VDCB100D	VDCB200D	VDCB300D	VDCB500D	VDCB700D
Dimensions and weights						
A	mm	217	217	217	300	351
B	mm	781	1001	1122	1133	1153
C	mm	584	584	584	737	789
D	mm	807	1027	1148	1158	1558

Aermec reserves the right to make any modifications deemed necessary.
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responsibility or liability for errors or omissions.

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MZC

Plenum with motor-driven dampers

- Multi-zone plenum for controlling air capacity
- Available for channels on/off and inverter fan coils



DESCRIPTION

The plenum with motor-driven dampers is designed for residential and tertiary applications. It combines optimal ambient comfort with assured energy savings.

Modern plant increasingly require overall air conditioning using channelled systems. Thanks to the electronic control of the dampers, the MZC accessory regulates the room's comfort by adjusting the air flow to meet the actual requirements.

MZC is designed for use in combination with all fan coils with asynchronous or brushless motors and is pre-set to distribute exchange air.

FEATURES

Structure

- Galvanized sheet metal structure, insulated with self-extinguishing material.
- From 2 to 6 delivery outlets, depending on the model. Each outlet is fitted with a motorised damper, with the possibility - if required by the system - to add an MZCSM accessory outlet (possibility not available for all models - see the accessory compatibility table)
- Fresh air injection flange, supplied as standard, for connecting the MZC plenum to a heat recovery unit.
- Pre-setting for the installation of an additional air probe (accessory MZCSA) to control modulating or pressure-independent valves.
- Possibility to install the plenum even on the fan coil intake, using a flange (accessory MZCA)
- Reversible electrical box (right/left)
- Water probe supplied as standard, for the fan coil.

Regulation

- MZC is equipped with a zone thermostat VMHI to define the required temperature setting.
- The status of the dampers (open/closed) is adjusted on reaching the temperature set in each room.
- Management of up to 6 motorized dampers.
- Flow control for each damper (the maximum and minimum damper opening can be set for each outlet).
- Possibility to associate the control of several dampers with the request from the same zone thermostat (VMHI or WT10).

- For installations in which the dampers and room thermostats are uniquely associated, the dampers can be modulated in relation to the room thermostat requirements.
- "Suction plenum" function enabling
- MZC can control the valves that may be installed on the fan coil associated with it (On/Off, modulating or pressure-independent types), for 2- or 4-pipe systems
- Possibility to set the control unit parameters via the supervision serial port.

ACCESSORIES

Control panels

WR10: Two-channel wireless receiver for WT10.

WT10: Wireless thermostat.

n°1 as standard



VMF Components

VMF-VOC: Air quality detection accessory.

VMHI: The VMHI panel can be used as a user interface for VMF-E19/E19I thermostats, GLFxN/M or GLLxN grids, or as an interface for the MZC system. What determines the function to be performed by the user interface is determined by its correct parametrisation and by following the electrical connections between interface and thermostat or interface and plenum.

Installation accessories

MZCACV: Electrical system with relay interface board. Mandatory accessory on units where motor absorption exceeds 0.7 A. The relay interface board is supplied with a 2A fuse to protect the fan coil. If the fan coil absorbs more than 2A and up to 4A, the fuse inside must be replaced with a 4A fuse supplied.

MZCAC: Mandatory electrical system for connecting the MZC plenum with a fan coil fitted with an asynchronous motor.

MZCBC: Mandatory electrical system for connecting the MZC plenum with a fan coil fitted with a brushless motor.

MZCSM: Single module with motorized damper.

MZCA: Adapter flange for installing the Plenum even under fan coil suction.

MZCSA: Air probe for controlling modulating or pressure independent valves.

ZCT: It is an electrical device equipped with Bluetooth and WiFi technology, with which it is possible to perform the functions of air probe and thermostat with dry contact. Communicate with the AerChront App (available for Android and iOS) for home control by creating customised rooms with name and cover image. For more information on the use of the application and available functions, please refer to the respective documentation on the site.

ACCESSORIES COMPATIBILITY

Control panels and dedicated accessories

Accessory	MZC220	MZC320	MZC530	MZC830	MZC5040	MZC7050
WR10	*	*	*	*	*	*
WT10	*	*	*	*	*	*

VMF system

Accessory	MZC220	MZC320	MZC530	MZC830	MZC5040	MZC7050
VMF-VOC	*	*	*	*	*	*
VMHI	*	*	*	*	*	*

Installation accessories

Relay interface board

Accessory	MZC7050					
MZCACV	*					

Accessory	MZC220	MZC320	MZC530	MZC830	MZC5040	MZC7050
MZCAC	*	*	*	*	*	*

Compulsory electrical plant

Accessory	MZC220	MZC320	MZC530	MZC830	MZC5040	MZC7050
MZCBC	*	*	*	*	*	*

Single module with damper

Accessory	MZC320	MZC530	MZC830	MZC5040	MZC7050
MZCSM	*	*	*	*	*

Adaptation flange

Accessory	MZC220	MZC320	MZC530	MZC830
MZCA2	*			
MZCA3		*		
MZCA5			*	
MZCA8				*

Air temperature probe

Accessory	MZC220	MZC320	MZC530	MZC830	MZC5040	MZC7050
MZCSA	*	*	*	*	*	*

Thermostat

Accessory	MZC220	MZC320	MZC530	MZC830	MZC5040	MZC7050
ZCT	*	*	*	*	*	*

COMPATIBILITY OF MZC PLENUMS WITH AERMEC FAN COILS

Plenum with motorised dampers - FCZ - PO

Model	Ver	100	101	102	150	200	201	202	250	300	301	302	350	400	401	402	450	500	501	502	550
MZC220	PO,POR					*	*	*	*												
MZC320	PO,POR									*	*	*	*								
MZC530	PO,POR													*	*	*	*	*	*	*	*
Model	Ver	600	601	602	650	700	701	702	750	800	801	802	850	900	901	950	1000	1001			
MZC830	PO,POR	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*			

Plenum with motorised dampers - VED 030-340

Plenum with motorised dampers - VED 430-741

Accessory	VED430	VED440	VED530	VED540	VED630	VED640	VED730	VED740
MZC5040	*	*	*	*				
MZC7050					*	*	*	*

Accessory	VED432	VED441	VED532	VED541	VED632	VED641	VED732	VED741
MZC5040	*	*	*	*				
MZC7050					*	*	*	*

Plenum with motorised dampers - VED 030I-340I

Plenum with motorised dampers - VED 530I-741I

Accessory	VED530I	VED540I	VED730I	VED740I
MZC5040	*	*		
MZC7050			*	*

Accessory	VED532I	VED541I	VED732I	VED741I
MZC5040	*	*		
MZC7050			*	*

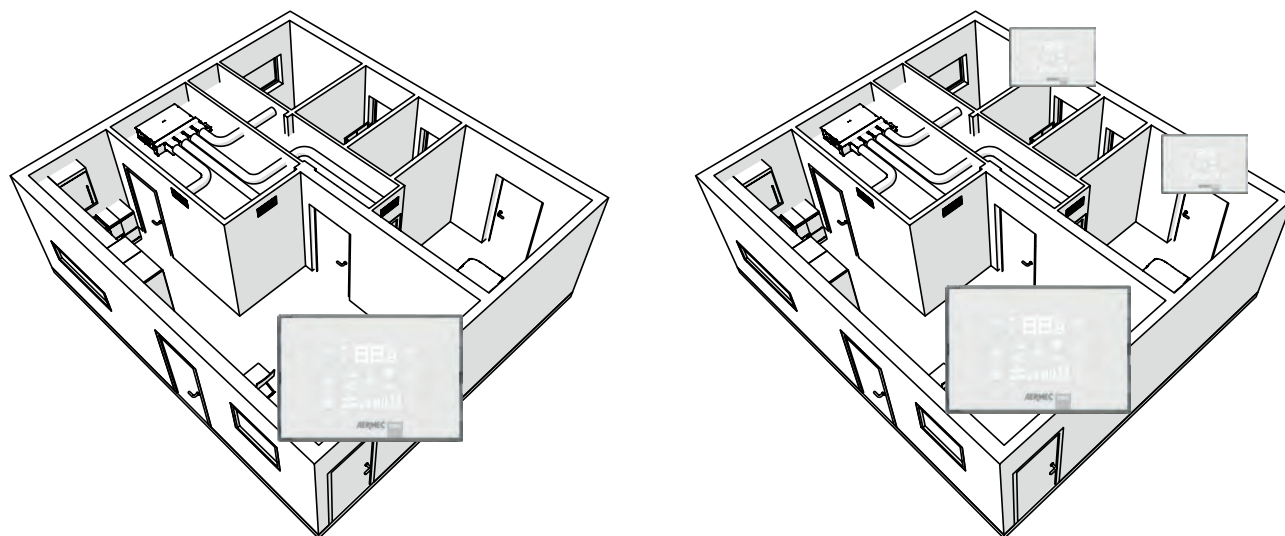
Plenum with motor-driven dampers - VES 030-340

Accessory	VES030	VES040	VES130	VES140	VES230	VES240	VES330	VES340
MZC220	*	*						
MZC320			*	*				
MZC530					*	*		
MZC830							*	*

Plenum with motor-driven dampers - VES 030I-340I

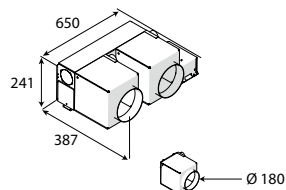
Accessory	VES030I	VES040I	VES130I	VES140I	VES230I	VES240I	VES330I	VES340I
MZC220	*	*						
MZC320			*	*				
MZC530					*	*		
MZC830							*	*

SYSTEM SOLUTIONS

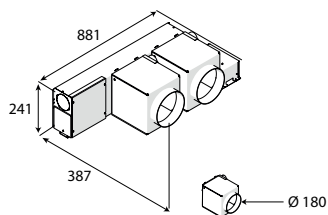


DIMENSIONS

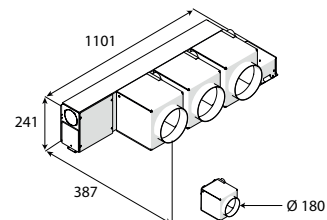
MZC220



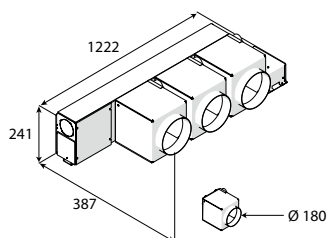
MZC320



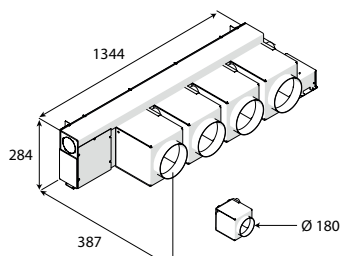
MZC530



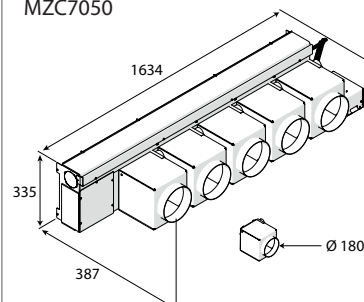
MZC830



MZC5040



MZC7050



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VEC

Coanda-effect fan coil for cassette installation

- **Very quiet**
- **Total comfort in every season**



DESCRIPTION

Thanks to a special air intake and flow grid, these units allow a coanda-effect air flow to be generated, parallel to the ceiling, creating optimal circulation inside the room to be air-conditioned. They are suitable to be installed inside a suspended ceiling.

FEATURES

Ventilation group

Comprised of a dual intake centrifugal fan that is particularly silent, statically and dynamically balanced and directly coupled to the motor shaft. In addition to the traditional three-speed asynchronous motor for the "VECs", every unit can be supplied with a "VEC_I" Brushless-type inverter motor controlled by an inverter board.

Heat exchanger coil

With copper pipes and aluminium louvers, the main heat exchanger has female gas water connections on the left side and the manifolds have air vents.

Units are available with a standard coil (20-50) and a larger coil (24-54). Only units with the standard coil can be combined with an additional electric or water coil with 1 row, both available as an accessory.

The coil is not suitable for use in corrosive atmosphere or in environments where aluminium may be subject to corrosion.

■ *The hydraulic connections can be inverted during installation.*

Air filter

Fire resistance class 1 air filter.

ACCESSORY COMPULSORY

VEC_GL: Air intake and flow grid with adjustable Coanda-effect vents (white M9016 = lacquered white similar to Ral 9016).

Control panels and dedicated accessories

AER503IR: Flush-mounting thermostat with backlit display, capacitive key-pad and infrared receiver, for controlling both brushless fan coils and those with an asynchronous motor. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices (Cold Plasma and germicidal lamp), with radiant plate or with FCZ-D twin delivery (Dualjet). In addition, it can control systems with radiant

panels or mixed (fan coil and radiant floor) systems. Being equipped with an infrared receiver, it can, in turn, be controlled by the VMF-IR remote control.

FMT10: Electronic thermostat for fan coil in to 2/4 pipe systems.

PRO503: Wall box for AER503IR and VMF-E4 thermostats.

SA5: air probe kit (L = 15 m) with probe-locking cable grommet.

SIT3: Thermostat Interface Card allowing the creation of a network of fan coils (max. 10) commanded by a central control panel (selector or thermostat). Commands the 3 fan speeds and must be installed on each fan coil within the network; receives the commands from the selector or the SIT5 card. In case you decide to install Aermec thermostats and current absorbed by the unit exceeds 0.7 A, you're obliged to include SIT3 accessory.

SIT5: Thermostat Interface Card allowing the creation of a network of fan coils (max. 10) commanded by a central control panel. Commands the 3 fan speeds and up to 2 valves (four pipe systems); sends the thermostat's commands to the fan coil network.

SW3: Water probe (L = 2.5 m) for controlling the minimum and maximum and to allow automatic seasonal switching for electronic thermostats fitted with water side changeover.

SW5: water probe kit (L = 15m) with probe-holder connection point, fixing clip and probe-holder from heat exchanger.

TX: Wall-mounting thermostat for controlling either brushless fan coils or those with asynchronous motors for 2/4 pipe. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices, radiant plate or FCZ-D twin delivery (Dualjet).

WMT10: Electronic thermostat, white, with thermostated or continuous ventilation.

WMT16: Electronic thermostat with thermostated ventilation.

WMT16CV: Electronic thermostat with continuous ventilation.

AerSuite

The AerSuite application is used to remotely control the DI24 user interface, with VMF-E19/VMF-E19I thermostats, using Smart Devices with iOS and Android operating systems.

This is an application for Smartphones and Tablets with which the user can access and control the system operation remotely.

For more information about the use of the application and the available functions, refer to the respective documentation on the website.



VMF Components

DI24: Flush-mounted interface (503 box) with 2.4" touch screen display to be combined with VMF-E19, VMF-E19I accessories. It allows you to regulate and monitor the temperature inside rooms precisely and on time; in addition to accessing and interacting with your system's operating information, parameters and alarms, it allows you to set time slots. Thanks to its Wi-Fi connection, DI24 in combination with the AerSuite APP (available for Android and iOS) can also be remotely controlled. All programming and most functions are done in a simple and intuitive way using the APP. To allow for customization of the interface so that it seamlessly integrates with the style of any home, DI24 is compatible with switch plates from major brands available on the market. For more information, please refer to our documentation. However, a switch plate with its graphite gray support, DI24CP, is also available as a separate accessory in our catalog.

VMF-E19: Thermostat to be secured to the side of the fan coil, fitted as standard with an air probe and a water probe.

VMF-E3: Wall mounted user interface, to be combined with accessories VMF-E19, VMF-E19I, with grids GLF_N/M and GLL_N, can be controlled with VMF-IR control.

VMF-E4X: Wall-mounted user interface. Light grey front panel PANTONE COOL GRAY 1C.

VMF-IR: User interface compatible with the AER503IR, VMF-E3 thermostat and with all the grids of cassettes equipped with the infrared receiver compatible with the VMF system.

VMF-SW: Water probe (L = 2.5m) used if required in place of the standard unit supplied with the VMF-E19 and VMF-E19I thermostats for mounting it upstream of the valve.

VMF-SW1: Additional water probe (L = 2.5m) to be used if required for 4-pipe systems with the VMF-E19 and VMF-E19I thermostats for maximum control in the cold range

VMHI: The VMHI panel can be used as a user interface for VMF-E19/E19I thermostats, GLF_N/M or GLL_N grids, or as an interface for the MZC system. What determines the function to be performed by the user interface is determined by its correct parametrisation and by following the electrical connections between interface and thermostat or interface and plenum.

Common accessories

BV: Hot water heat exchanger with 1 row.

RX: Armoured electric coil with safety thermostat.

VCFD: Motorized 2-way valve kit without insulating shell, can be installed on the main or secondary battery or a battery that is only warm. The kit is made up of a valve, actuator and relative hydraulic fittings. It can be installed on fan coils with connections on the right and on the left.

VCF41 - 42 - 43 - for main heat exchanger: 3-way motorised valve kit for the main coil. The kit is made up of a valve with its insulating shell, actuator and relative hydraulic fittings. It can be installed on fan coils with both right and left connections. If the valve is combined with the BCZ5 or BCZ6 condensate drain pan, to ensure a better housing it is possible to remove the insulating shell.

DSC: Condensate drainage device.

BC: Condensate drip.

VCF44 - 45 - for secondary heat exchanger: The 3-way motorised valve kit for the secondary coil heat only. The kit consists of a valve with its insulating shell, actuator and relevant water fittings; it is suitable to be installed on the fan coils with right and left water connections.

PCR: Galvanised plate protection for the controls and the electrical element.

ACCESSORIES COMPATIBILITY

Accessories mandatory

Intake grid and distribution of the air

Model	Ver	20	24	30	34	40	44	50	54
VEC20GL (1)	.	*	*						
VEC30GL (1)	.			*	*				
VEC40GL (1)	.					*	*	*	*

(1) Mandatory accessory.

Control panels and dedicated accessories

Model	Ver	20	24	30	34	40	44	50	54
AER503IR (1)	.	*	*	*	*	*	*	*	*
FMT10	.	*	*	*	*	*	*	*	*
PRO503	.	*	*	*	*	*	*	*	*
SAS (2)	.	*	*	*	*	*	*	*	*
SIT3 (3)	.	*	*	*	*	*	*	*	*
SIT5 (4)	.	*	*	*	*	*	*	*	*
SW3 (2)	.	*	*	*	*	*	*	*	*
SW5 (2)	.	*	*	*	*	*	*	*	*
TX (5)	.	*	*	*	*	*	*	*	*
WMT10 (5)	.	*	*	*	*	*	*	*	*
WMT16 (5)	.	*	*	*	*	*	*	*	*
WMT16CV (5)	.	*	*	*	*	*	*	*	*

(1) Wall-mount installation.

(2) Probe for AER503IR-TX thermostats, if fitted.

(3) Cards for AER503IR-TX thermostats, if present, to be installed if the unit absorption exceeds 0,7 Ampere.

(4) Probe for AER503IR-TX thermostats, if fitted.

(5) Wall-mounting. If the unit intake exceeds 0.7A, or several units need to be managed with a single thermostat, board SIT3 and/or SIT5 is required.

VMF Components

Model	Ver	20	24	30	34	40	44	50	54
DI24	.	*	*	*	*	*	*	*	*
VMF-E19 (1)	.	*	*	*	*	*	*	*	*
VMF-E3	.	*	*	*	*	*	*	*	*
VMF-E4X	.	*	*	*	*	*	*	*	*
VMF-IR	.	*	*	*	*	*	*	*	*
VMF-SW	.	*	*	*	*	*	*	*	*
VMF-SW1	.	*	*	*	*	*	*	*	*

Model	Ver	20	24	30	34	40	44	50	54
VMHI	.	*	*	*	*	*	*	*	*

(1) Also the accessory VMF-SIT3V is mandatory if the unit exceeds 0.7 Amperes.

Common accessories

Electric coil

Model	Ver	20	24	30	34	40	44	50	54
RX22 (1)	.	*	*						
RX32 (1)	.			*	*				
RX42 (1)	.					*	*		
RX52 (1)	.							*	*

(1) Requires a thermostat with heater management. Not available for sizes with an oversized main coil. The PCR1 PCR2 or PCR1V appliance must also be provided depending on the unit.

Protection for controls and electric resistance

Model	Ver	20	24	30	34	40	44	50	54
PCR1V	.	*	*	*	*	*	*	*	*

Water coil with 1 row

Model	Ver	20	24	30	34	40	44	50	54
BV122 (1)	.	*							
BV132 (1)	.			*					
BV142 (1)	.					*		*	

(1) Not available for sizes with oversized main coil.

3-way valve kit - main coil or accessory BV coil

	VEC20	VEC24	VEC30	VEC34	VEC40	VEC44	VEC50	VEC54
Main coil	VCF41 - VCF4124	VCF42 - VCF4224	VCF41 - VCF4124	VCF42 - VCF4224	VCF42 - VCF4224	VCF42 - VCF4224	VCF42 - VCF4224	VCF42 - VCF4224
Additional coil "BV"	VCF44 - VCF4424	-	VCF44 - VCF4424	-	VCF44 - VCF4424	-	VCF44 - VCF4424	-

2-way valve kit - main coil or accessory BV coil

	VEC20	VEC24	VEC30	VEC34	VEC40	VEC44	VEC50	VEC54
Main coil	VCFD1 - VCFD124	VCFD2 - VCFD224	VCFD1 - VCFD124	VCFD2 - VCFD224	VCFD2 - VCFD224	VCFD2 - VCFD224	VCFD2 - VCFD224	VCFD2 - VCFD224
Additional coil "BV"	VCFD4 - VCFD424	-	VCFD4 - VCFD424	-	VCFD4 - VCFD424	-	VCFD4 - VCFD424	-

Valves ending with **24 ex. VCFD124**, are 24V.

Condensate drip

Ver	20	24	30	34	40	44	50	54
.	BCS (1)	BCS (1)	BCS (1)	BCS (1)	BCS (1)	BCS (1)	BCS (1)	BCS (1)

(1) For horizontal installation.

Condensate drainage

Ver	20	24	30	34	40	44	50	54
.	DSC4	DSC4	DSC4	DSC4	DSC4	DSC4	DSC4	DSC4

PERFORMANCE SPECIFICATIONS VEC

2-pipe

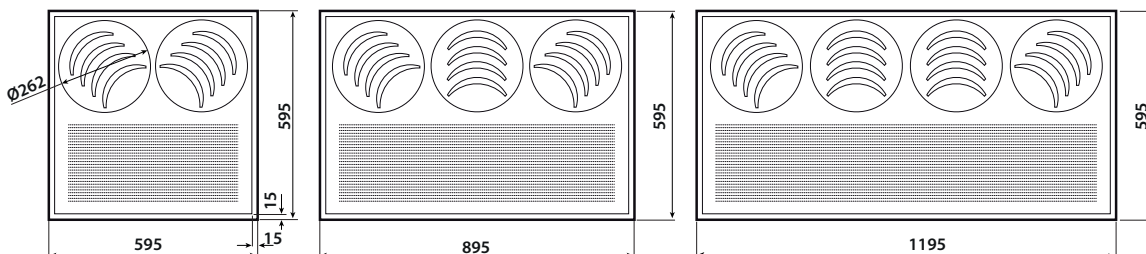
		VEC20			VEC24			VEC30			VEC34			VEC40			VEC44			VEC50			VEC54		
		1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
		L	M	H	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H
Heating performance 70 °C / 60 °C (1)																									
Heating capacity	kW	1,87	2,54	3,10	2,07	2,50	3,42	3,03	3,64	4,31	4,31	53,18	6,14	4,21	5,21	6,29	5,41	6,68	8,07	4,76	6,34	7,16	6,06	8,08	9,18
Water flow rate system side	l/h	164	223	272	181	219	300	266	319	378	378	454	538	369	457	551	474	586	708	417	556	628	532	709	805
Pressure drop system side	kPa	2	4	6	1	2	3	9	13	17	5	7	9	6	9	12	9	14	19	7	11	14	9	15	19
Heating performance 45 °C / 40 °C (2)																									
Heating capacity	kW	0,95	1,26	1,54	1,20	1,40	1,70	1,50	1,81	2,14	2,15	2,57	3,05	2,09	2,59	3,12	2,69	3,30	4,01	2,37	3,15	3,56	3,02	4,02	4,54
Water flow rate system side	l/h	163	217	265	206	241	292	258	311	368	370	442	525	359	445	537	463	568	690	408	542	612	519	691	781
Pressure drop system side	kPa	3	5	7	2	3	4	9	13	17	5	7	9	6	9	13	10	14	20	7	12	14	17	15	19
Cooling performance 7 °C / 12 °C																									
Cooling capacity	kW	0,80	1,07	1,31	0,88	1,21	1,52	1,35	1,61	1,91	1,79	2,14	2,47	1,99	2,47	2,99	2,55	3,34	3,91	2,35	3,17	3,61	3,00	4,00	4,28
Sensible cooling capacity	kW	0,64	0,87	1,07	0,67	0,90	1,14	1,03	1,25	1,49	1,26	1,51	1,78	1,58	1,98	2,41	1,91	2,42	2,74	1,68	2,27	2,59	2,09	2,83	3,04
Water flow rate system side	l/h	138	184	225	151	208	261	232	277	329	308	368	425	342	425	514	439	574	673	404	545	621	516	688	736
Pressure drop system side	kPa	3	4	6	1	2	3	6	11	13	5	6	8	6	9	12	11	17	22	7	12	15	17	27	30
Fan																									
Type	type	Centrifugal																							
Fan motor	type	Asynchronous																							
Number	no.	1			1			2			2			2			2			2			2		
Air flow rate	m³/h	130	194	247	130	167	247	241	309	383	241	309	383	306	406	511	306	406	511	371	529	613	371	529	613
Input power	W	19	22	25	19	22	25	25	33	44	25	33	44	30	43	57	30	43	57	34	46	67	34	46	67
Electrical wiring		V1	V2	V3	V1	V2	V3	V1	V2	V3	V1	V2	V3	V1	V2	V3	V1	V2	V3	V1	V2	V3	V1	V2	V3
Fan coil sound data (3)																									
Sound power level	dB(A)	35,0	42,0	48,0	35,0	42,0	48,0	37,0	43,0	49,0	37,0	43,0	49,0	38,0	43,0	48,0	38,0	43,0	48,0	43,0	50,0	53,0	43,0	50,0	53,0
Sound pressure level	dB(A)	27,0	34,0	40,0	27,0	34,0	40,0	29,0	35,0	41,0	29,0	35,0	41,0	30,0	35,0	40,0	30,0	35,0	40,0	35,0	38,0	45,0	35,0	38,0	45,0
Diameter hydraulic fittings																									
Main heat exchanger	Ø	1/2"			3/4"			1/2"			3/4"			3/4"			3/4"			3/4"			3/4"		
Power supply																									
Power supply		230V~50Hz																							

(1) Room air temperature 20 °C d.b.; Water (in/out) 70 °C/60 °C

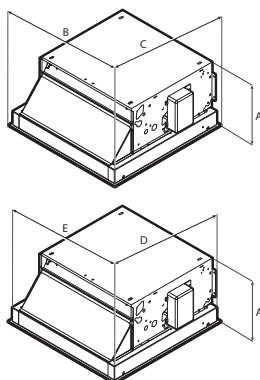
(2) Room air temperature 20 °C d.b.; Water (in/out) 45 °C/40 °C; EUROVENT

(3) Aermec determines the sound power value on the basis of measurements taken in accordance with standard UNI EN 16583:15, respecting the Eurovent certification.

GRID DIMENSIONS (MANDATORY ACCESSORY)



DIMENSIONS



Dimensions and weights of the unit with grid (maximum dimensions)

Size		20	24	30	34	40	44	50	54
Dimensions and weights									
A	mm	283	283	283	283	283	283	283	283
B	mm	595	595	895	895	1195	1195	1195	1195
C	mm	595	595	595	595	595	595	595	595
Empty weight	kg	16	16	21	21	25	25	25	25
Weight of the grid	kg	3,7	3,7	5,7	5,7	7,0	7,0	7,0	7,0

Dimensions of the unit with grid (dimensions for installation)

Size		20	24	30	34	40	44	50	54
Dimensions and weights									
A	mm	283	283	283	283	283	283	283	283
D	mm	574	574	574	574	574	574	574	574
E	mm	574	574	874	874	1174	1174	1174	1174

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VEC-I

Coanda-effect fan coil for cassette installation

- **Very quiet**
- **Electric saving equal to 50% with respect to a fan coil with 3-speed motor**
- **Total comfort: reduced variations in temperature and relative humidity in every season**



DESCRIPTION

Thanks to a special air intake and flow grid, these units allow a coanda-effect air flow to be generated, parallel to the ceiling, creating optimal circulation inside the room to be air-conditioned.

They are suitable to be installed inside a suspended ceiling.

FEATURES

Ventilation group

Comprised of a dual intake centrifugal fan that is particularly silent, statically and dynamically balanced and directly coupled to the motor shaft.

The Brushless electric motor with 0-100% continuous speed variation, which allows precise adaptation to the real demands of the internal environment without temperature fluctuations.

Continuous air flow rate variation is made possible by a 0-10V signal generated by Aermec adjustment and control commands or by independent regulation systems.

This lowers noise and generates a better response to heat loads and a higher stability in the desired temperature inside the room.

The high efficiency even with low speed, makes it possible to reduce power consumption (more than 50% less than fan coils with traditional motors).

Apart from the inverter motor of the "VEC-I" models, each unit can be supplied with a single-phase asynchronous "VEC" motor.

Heat exchanger coil

With copper pipes and aluminium louvers, the main heat exchanger has female gas water connections on the left side and the manifolds have air vents.

Units are available with a standard coil (20-50) and a larger coil (24-54). Only units with the standard coil can be combined with an additional electric or water coil with 1 row, both available as an accessory.

The coil is not suitable for use in corrosive atmosphere or in environments where aluminium may be subject to corrosion.

■ *The hydraulic connections can be inverted during installation.*

Air filter

Fire resistance class 1 air filter.

ACCESSORY COMPULSORY

Control panels and dedicated accessories

AER503IR: Flush-mounting thermostat with backlit display, capacitive keypad and infrared receiver, for controlling both brushless fan coils and those with an asynchronous motor. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices (Cold Plasma and germicidal lamp), with radiant plate or with FCZ-D twin delivery (Dualjet). In addition, it can control systems with radiant panels or mixed (fan coil and radiant floor) systems. Being equipped with an infrared receiver, it can, in turn, be controlled by the VMF-IR remote control.

SA5: air probe kit (L = 15 m) with probe-locking cable grommet.

SW5: water probe kit (L = 15m) with probe-holder connection point, fixing clip and probe-holder from heat exchanger.

TX: Wall-mounting thermostat for controlling either brushless fan coils or those with asynchronous motors for 2/4 pipe. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices, radiant plate or FCZ-D twin delivery (Dualjet).

AerSuite

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This is an application for Smartphones and Tablets with which the user can access and control the system operation remotely.

For more information about the use of the application and the available functions, refer to the respective documentation on the website.



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DI24: Flush-mounted interface (503 box) with 2.4" touch screen display to be combined with VMF-E19, VMF-E19I accessories. It allows you to regulate and monitor the temperature inside rooms precisely and on time; in addition to accessing and interacting with your system's operating information, parameters and alarms, it allows you to set time slots. Thanks to its Wi-Fi connection, DI24 in combination with the AerSuite APP (available for Android and iOS) can also be remotely controlled. All programming and most functions are done in a simple and intuitive way using the APP. To allow for customization of the interface so that it seamlessly integrates with the style of any home, DI24 is compatible with switch plates from major brands available on the market. For more information, please refer to our documentation. However, a switch plate with its graphite gray support, DI24CP, is also available as a separate accessory in our catalog.

ACCESSORIES COMPATIBILITY

Accessories mandatory

Intake grid and distribution of the air

Accessory	VEC24I	VEC30I	VEC34I	VEC40I	VEC44I	VEC50I	VEC54I
VEC20GL	.						
VEC30GL		.	.				
VEC40GL				.	.	.	.

Control panels and dedicated accessories

Accessory	VEC20I	VEC24I	VEC30I	VEC34I	VEC40I	VEC44I	VEC50I	VEC54I
AERS03IR	.	.	.	.	.	.	.	.
PRO503	.	.	.	.	.	.	.	.
SA5	.	.	.	.	.	.	.	.
SW5	.	.	.	.	.	.	.	.
TX	.	.	.	.	.	.	.	.

VMF Components

Model	Ver	20	24	30	34	40	44	50	54
DI24	.	.	.	.	.	.	.	.	.
VMF-E19 (1)	.	.	.	.	.	.	.	.	.
VMF-E3	.	.	.	.	.	.	.	.	.
VMF-E4X	.	.	.	.	.	.	.	.	.
VMF-IR	.	.	.	.	.	.	.	.	.
VMF-SW	.	.	.	.	.	.	.	.	.
VMF-SW1	.	.	.	.	.	.	.	.	.
VMHI	.	.	.	.	.	.	.	.	.

(1) Also the accessory VMF-SIT3V is mandatory if the unit exceeds 0.7 Amperes.

Common accessories

Electric coil

Accessory	VEC20I	VEC24I	VEC30I	VEC34I	VEC40I	VEC44I	VEC50I	VEC54I
RX22	.	.						
RX32			.	.				
RX42					.	.		
RX52							.	.

Protection for controls and electric resistance

Accessory	VEC20I	VEC24I	VEC30I	VEC34I	VEC40I	VEC44I	VEC50I	VEC54I
PCR1V	.	.	.	.	.	.	.	.

Water coil with 1 row

Accessory	VEC20I	VEC30I	VEC40I	VEC50I
BV122	.			

VMF-E19I: Thermostat for inverter unit to be fixed on the side of the fan coil, fitted as standard with an air and water probe.

VMF-E4DX: Wall-mounted user interface. Grey front panel PANTONE 425C (METAL).

VMF-E4X: Wall-mounted user interface. Light grey front panel PANTONE COOL GRAY 1C.

VMF-SW: Water probe (L = 2.5m) used if required in place of the standard unit supplied with the VMF-E19 and VMF-E19I thermostats for mounting it upstream of the valve.

VMF-SW1: Additional water probe (L = 2.5m) to be used if required for 4-pipe systems with the VMF-E19 and VMF-E19I thermostats for maximum control in the cold range

Common accessories

BV: Hot water heat exchanger with 1 row.

RX: Armoured electric coil with safety thermostat.

VCFD: Motorized 2-way valve kit without insulating shell, can be installed on the main or secondary battery or a battery that is only warm. The kit is made up of a valve, actuator and relative hydraulic fittings. It can be installed on fan coils with connections on the right and on the left.

VCF41 - 42 - 43 - for main heat exchanger: 3-way motorised valve kit for the main coil. The kit is made up of a valve with its insulating shell, actuator and relative hydraulic fittings. It can be installed on fan coils with both right and left connections. If the valve is combined with the BCZ5 or BCZ6 condensate drain pan, to ensure a better housing it is possible to remove the insulating shell.

DSC: Condensate drainage device.

BC: Condensate drip.

PCR: Galvanised plate protection for the controls and the electrical element.

Accessory	VEC20I	VEC30I	VEC40I	VEC50I
BV132		*		
BV142			*	*

3-way valve kit - main coil or accessory BV coil

	VEC20I	VEC24I	VEC30I	VEC34I	VEC40I	VEC44I	VEC50I	VEC54I
Main coil	VCF41 - VCF4124	VCF42 - VCF4224	VCF41 - VCF4124	VCF42 - VCF4224	VCF42 - VCF4224	VCF42 - VCF4224	VCF42 - VCF4224	VCF42 - VCF4224
Additional coil "BV"	VCF44 - VCF4424	-	VCF44 - VCF4224	-	VCF44 - VCF4224	-	VCF44 - VCF4224	-

2-way valve kit - main coil or accessory BV coil

	VEC20I	VEC24I	VEC30I	VEC34I	VEC40I	VEC44I	VEC50I	VEC54I
Main coil	VCFD1 - VCFD124	VCFD2 - VCFD224	VCFD1 - VCFD124	VCFD2 - VCFD224	VCFD2 - VCFD224	VCFD2 - VCFD224	VCFD2 - VCFD224	VCFD2 - VCFD224
Additional coil "BV"	VCFD2 - VCFD424	-	VCFD4 - VCFD424	-	VCFD4 - VCFD424	-	VCFD4 - VCFD424	-

Valves ending with **24 ex. VCFD124**, are 24V.

Condensate drip

Accessory	VEC20I	VEC24I	VEC30I	VEC34I	VEC40I	VEC44I	VEC50I	VEC54I
BC5	*	*	*	*	*	*	*	*

Condensate drainage

Accessory	VEC20I	VEC24I	VEC30I	VEC34I	VEC40I	VEC44I	VEC50I	VEC54I
DSC4	*	*	*	*	*	*	*	*

PERFORMANCE SPECIFICATIONS VEC

2-pipe

	VEC20I			VEC24I			VEC30I			VEC34I			VEC40I			VEC44I			VEC50I			VEC54I		
	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H

Heating performance 70 °C / 60 °C (1)

Heating capacity	kW	1,87	2,54	3,10	2,07	2,50	3,42	3,03	3,64	4,31	4,31	53,18	6,14	4,21	5,21	6,29	5,41	6,68	8,07	4,76	6,34	7,16	6,06	8,08	9,18
Water flow rate system side	l/h	164	223	272	181	219	300	266	319	378	378	454	538	369	457	551	474	586	708	417	556	628	532	709	805
Pressure drop system side	kPa	2	4	6	1	2	3	9	13	17	5	7	9	6	9	12	9	14	19	7	11	14	9	15	19

Heating performance 45 °C / 40 °C (2)

Heating capacity	kW	0,95	1,26	1,54	1,20	1,40	1,70	1,50	1,81	2,14	2,15	2,57	3,05	2,09	2,59	3,12	2,69	3,30	4,01	2,37	3,15	3,56	3,02	4,02	4,54
Water flow rate system side	l/h	163	217	265	206	241	292	258	311	368	370	442	525	359	445	537	463	568	690	408	542	612	519	691	781
Pressure drop system side	kPa	3	5	7	2	3	4	9	13	17	5	7	9	6	9	13	10	14	20	7	12	14	17	15	19

Cooling performance 7 °C / 12 °C

Cooling capacity	kW	0,80	1,07	1,31	0,88	1,21	1,52	1,35	1,61	1,91	1,79	2,14	2,47	1,99	2,47	2,99	2,55	3,34	3,91	2,35	3,17	3,61	3,00	4,00	4,28
Sensible cooling capacity	kW	0,64	0,87	1,07	0,67	0,90	1,14	1,03	1,25	1,49	1,26	1,51	1,78	1,58	1,98	2,41	1,91	2,42	2,74	1,68	2,27	2,59	2,09	2,83	3,04
Water flow rate system side	l/h	138	184	225	151	208	261	232	277	329	308	368	425	342	425	514	439	574	673	404	545	621	516	688	736
Pressure drop system side	kPa	3	4	6	1	2	3	6	11	13	5	6	8	6	9	12	11	17	22	7	12	15	17	27	30

Fan

Type	type	Centrifugal																							
Fan motor	type	Inverter																							
Number	no.	1			1			2			2			2			2			2			2		
Air flow rate	m³/h	130	194	247	130	167	247	241	309	383	241	309	383	306	406	511	306	406	511	371	529	613	371	529	613
Input power	W	4	9	14	4	9	14	11	16	35	11	16	35	16	20	26	16	20	26	18	27	34	18	27	34
Signal 0-10V	%	48	70	90	48	70	90	58	66	90	58	66	90	54	72	90	54	72	90	56	78	90	56	78	90

Fan coil sound data (3)

Sound power level	dB(A)	35,0	42,0	48,0	35,0	42,0	48,0	37,0	43,0	49,0	37,0	43,0	49,0	38,0	43,0	48,0	38,0	43,0	48,0	43,0	50,0	53,0	43,0	50,0	53,0
Sound pressure level	dB(A)	27,0	34,0	40,0	27,0	34,0	40,0	29,0	35,0	41,0	29,0	35,0	41,0	30,0	35,0	40,0	30,0	35,0	40,0	35,0	38,0	45,0	35,0	38,0	45,0

Diameter hydraulic fittings

Main heat exchanger	Ø	1/2"			3/4"			1/2"			3/4"			3/4"			3/4"			3/4"			3/4"		
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Power supply

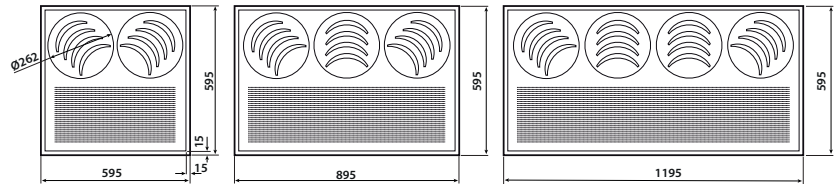
Power supply	230V~50Hz																							
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(1) Room air temperature 20 °C d.b.; Water (in/out) 70 °C/60 °C

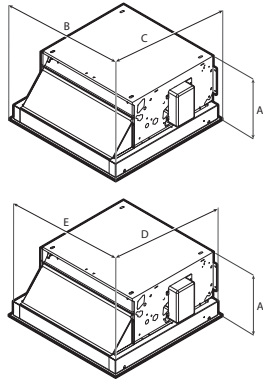
(2) Room air temperature 20 °C d.b.; Water (in/out) 45 °C/40 °C; EUROVENT

(3) Aermec determines the sound power value on the basis of measurements taken in accordance with standard UNI EN 16583:15, respecting the Eurovent certification.

GRID DIMENSIONS (MANDATORY ACCESSORY)



DIMENSIONS



Dimensions and weights of the unit with grid (maximum dimensions)

Size		20	24	30	34	40	44	50	54
Dimensions and weights									
A	. mm	283	283	283	283	283	283	283	283
B	. mm	595	595	895	895	1195	1195	1195	1195
C	. mm	595	595	595	595	595	595	595	595
Empty weight	. kg	16	16	21	21	25	25	25	25
Weight of the grid	. kg	3,7	3,7	5,7	5,7	7,0	7,0	7,0	7,0

Dimensions of the unit with grid (dimensions for installation)

Size		20	24	30	34	40	44	50	54
Dimensions and weights									
A	. mm	283	283	283	283	283	283	283	283
D	. mm	574	574	574	574	574	574	574	574
E	. mm	574	574	874	874	1174	1174	1174	1174

Aermec reserves the right to make any modifications deemed necessary.
All data is subject to change without notice. Aermec does not assume
responsibility or liability for errors or omissions.

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FCL

Cassette Type Fan Coil Unit

- **Standard internal three-way valve**
- **Version with 2-way valve for variable water flow rate systems**
- **Version without valves**



DESCRIPTION

4-way cassettes that can be installed in any type of 2- or 4-pipe system with any heat generator, even at low temperatures. Thanks to the selection of versions and configurations, it's easy to choose the best solution for every need.

FEATURES

Intake grid and distribution of the air

The recovery and air diffusion grille has an elegant design. In plastic, RAL 9010.

The dimensions of the first nine sizes respect the 600x600 mm modularity of false ceilings, whereas the larger sizes measuring 840x840 mm are designed for quiet operation and optimum performance.

Load-bearing structure

Models with a 600x600 mm module have a reinforced load-bearing structure with side panels in galvanised steel sheet, thermally insulated with internal polystyrene foam elements.

The structure of models with a 840x840 mm module is made entirely of galvanised steel sheet, thermally insulated with polyethylene foam on the inside and with an anti-condensate felt coating.

Ventilation group

Formed of a particularly quiet axial-centrifugal fan, statically and dynamically balanced.

The single-phase electric motor offers three or four speeds (depending on the size), is mounted on anti-vibration supports, and has a permanently enabled condenser.

Heat exchanger coil

Heat exchanger with shaped profile to increase the exchange surface, and easily accessible drain valves.

There are models with a single coil for 2-pipe systems, with the possibility to add an electric heater too, and models with two coils for 4-pipe systems. There is the possibility to combine outside air with the inlet ambient air, and to distribute it in separate rooms.

The coil is not suitable for use in corrosive atmosphere or in environments where aluminium may be subject to corrosion.

There is the possibility to combine outside air with the inlet ambient air, and to distribute it in separate rooms.

Condensate drip

Condensation drip tray in one piece, with V0 self-extinguishing level and overmoulding to insulation in expanded polystyrene with flame retardant additive.

Air filter

Air filter easily removed and cleaned, self-supporting structure, characterised by a high efficiency and low pressure drops, with class-V0 fire resistance (UL 94).

Versions

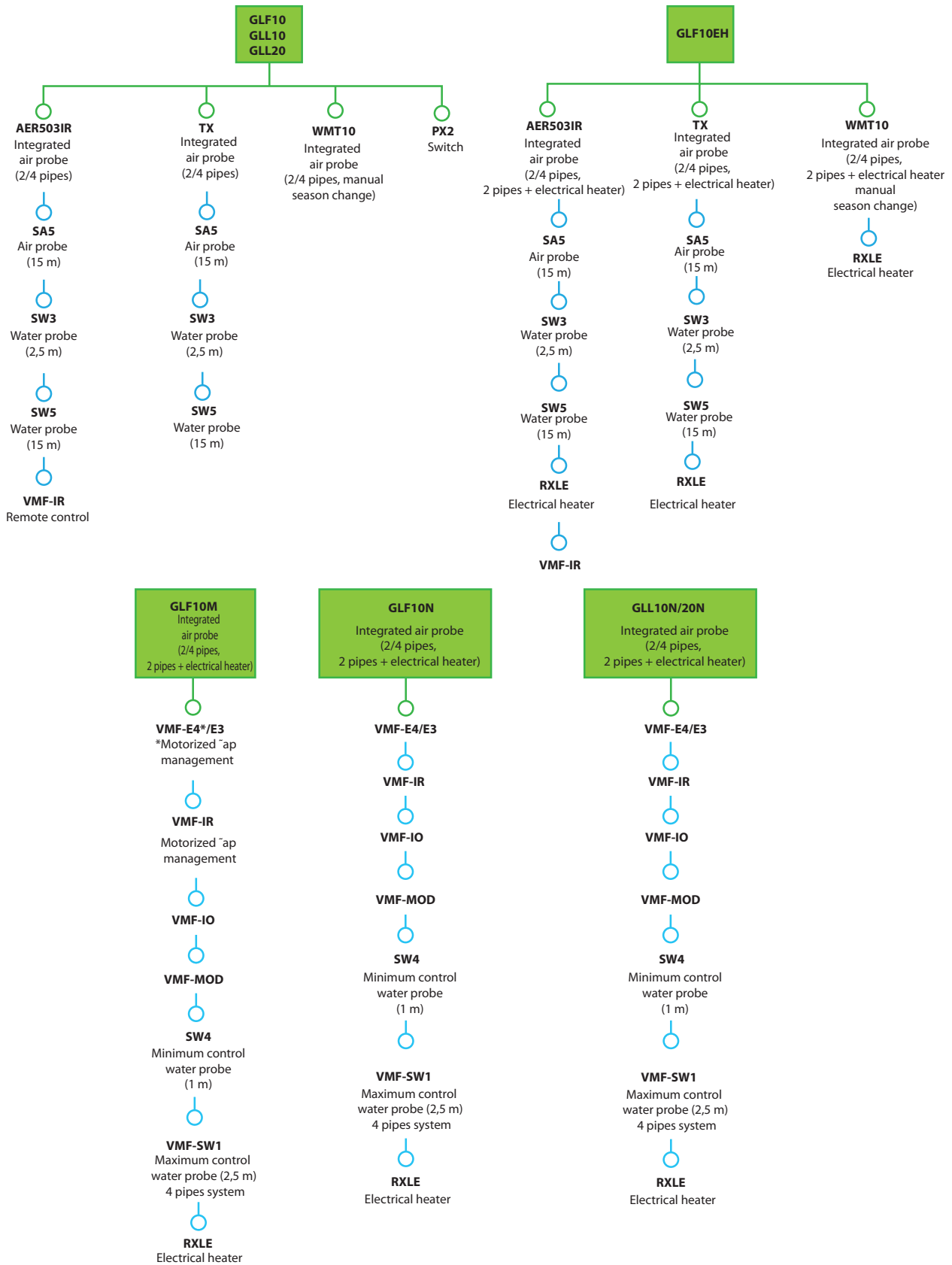
FCL Standard with internal 3-way valve

V2 With internal 2-way valve

VL Without internal valve

ACCESSORIES

Accessories that can be combined with the grilles



RXLE it can be installed only at the factory.

Intake grids and distribution of the air, compulsory accessory

GLF10: Recovery and air supply grille in plastic, RAL 9010 colour, measuring 600x600 mm adapts perfectly to standard false ceilings without overlapping parts. Intake is in the central part, where the easily removable air filter is housed. Delivery is via the perimeter slits with manually orientated louvers. Must be combined with a wall-mounted panel. (size 840x840 mm not available).

GLF10EH: Recovery and air supply grille in plastic, RAL 9010 colour, measuring 600x600 mm; adapts perfectly to standard false ceilings without overlapping parts. Suitable for use with the RXLE heater. Intake is in the central part, where the easily removable air filter is housed. Delivery is via the perimeter slits with manually orientated fins. Must be combined with a wall-mounted panel. (size 840x840 mm not available).

GLF10M: Recovery and air supply grille in plastic, RAL 9010 colour, measuring 600x600 mm adapts perfectly to standard false ceilings without overlapping parts. It is equipped with an infrared receiver with an emergency operation button, a thermostat card which also requires the installation of the VMF-E4 panel or the VMF-IR remote control. Intake is in the central part, where the easily removable air filter is housed. Delivery is via the perimeter slits that can be orientated with the remote control. (size 840x840 not available).

GLF10N: Recovery and air supply grille in plastic, RAL 9010 colour, measuring 600x600 mm, adapts perfectly to standard false ceilings without overlapping parts. Fitted with a thermostat board that necessarily requires the installation of the VMF-E4 or VMF-IR panel as well. Intake is in the central part, where the easily removable air filter is housed. Delivery is via the perimeter slits that can be manually orientated. (size 800x800 mm not available).

GLL10: Recovery and air supply grille in plastic, RAL 9010 colour, measuring 600x600 mm; adapts perfectly to standard false ceilings without overlapping parts. Intake is in the central part, where the easily removable air filter is housed. Delivery is via the perimeter slits that can be manually orientated. Must be combined with a wall-mounted panel.

GLL10N: Recovery and air supply grille in plastic, RAL 9010 colour, measuring 600x600 mm, adapts perfectly to standard false ceilings without overlapping parts. Fitted with a thermostat board that necessarily requires the installation of the VMF-E4X or VMF-IR panel as well. Intake is in the central part, where the easily removable air filter is housed. Delivery is via the perimeter slits that can be manually orientated.

GLL20: Recovery and air supply grille in plastic, RAL 9010 colour, measuring 840x840 mm, adapts perfectly to standard false ceilings without overlapping parts. Intake is in the central part, where the easily removable air filter is housed. Delivery is via the perimeter slits that can be manually orientated. Must be combined with a wall-mounted panel.

GLL20N: Recovery and air supply grille in plastic, RAL 9010 colour, measuring 840x840 mm, adapts perfectly to standard false ceilings without overlapping parts. Fitted with a thermostat board that necessarily requires the installation of the VMF-E4X or VMF-IR panel as well. Intake is in the central part, where the easily removable air filter is housed. Delivery is via the perimeter slits that can be manually orientated.

AerSuite

The AerSuite application is used to remotely control the DI24 user interface, with VMF-E19/VMF-E19I thermostats, using Smart Devices with iOS and Android operating systems.

This is an application for Smartphones and Tablets with which the user can access and control the system operation remotely.

For more information about the use of the application and the available functions, refer to the respective documentation on the website.



VMF system

DI24: Flush-mounted interface (503 box) with 2.4" touch screen display to be combined with VMF-E19, VMF-E19I accessories. It allows you to regulate and monitor the temperature inside rooms precisely and on time; in addition to accessing and interacting with your system's operating information, parameters and alarms, it allows you to set time slots. Thanks to its Wi-Fi connection, DI24 in combination with the AerSuite APP (available for Android and iOS) can also be remotely controlled. All programming and most functions are done in a simple and intuitive way using the APP. To allow for customization of the interface so that it seamlessly integrates with the style of any home, DI24 is compatible with switch plates from major brands available on the market. For more information, please refer to our documentation. However, a switch plate with its graphite gray support, DI24CP, is also available as a separate accessory in our catalog.

VMF-E3: Wall mounted user interface, to be combined with accessories VMF-E19, VMF-E19I, with grids GLF_N/M and GLL_N, can be controlled with VMF-IR control.

VMF-E4DX: Wall-mounted user interface. Grey front panel PANTONE 425C (METAL).

VMF-E4X: Wall-mounted user interface. Light grey front panel PANTONE COOL GRAY 1C.

VMF-IO: Manage the unit exclusively from a centralized VMF control panel without area control panel.

VMF-IR: User interface compatible with the AER503IR, VMF-E3 thermostat and with all the grids of cassettes equipped with the infrared receiver compatible with the VMF system.

VMF-MOD: Expansion board for the management of modulating valves.

VMF-SW1: Additional water probe (L = 2.5m) to be used if required for 4-pipe systems with the VMF-E19 and VMF-E19I thermostats for maximum control in the cold range

Control panels and their accessories

AER503IR: Flush-mounting thermostat with backlit display, capacitive keypad and infrared receiver, for controlling both brushless fan coils and those with an asynchronous motor. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices (Cold Plasma and germicidal lamp), with radiant plate or with FCZ-D twin delivery (Dualjet). In addition, it can control systems with radiant panels or mixed (fan coil and radiant floor) systems. Being equipped with an infrared receiver, it can, in turn, be controlled by the VMF-IR remote control.

SA5: air probe kit (L = 15 m) with probe-locking cable grommet.

SIT3: Thermostat Interface Card allowing the creation of a network of fan coils (max. 10) commanded by a central control panel (selector or thermostat). Commands the 3 fan speeds and must be installed on each fan coil within the network; receives the commands from the selector or the SIT5 card. In case you decide to install Aermec thermostats and current absorbed by the unit exceeds 0.7 A, you're obliged to include SIT3 accessory.

SIT5: Thermostat Interface Card allowing the creation of a network of fan coils (max. 10) commanded by a central control panel. Commands the 3 fan speeds and up to 2 valves (four pipe systems); sends the thermostat's commands to the fan coil network.

SW3: Water probe (L = 2.5 m) for controlling the minimum and maximum and to allow automatic seasonal switching for electronic thermostats fitted with water side changeover.

SW4: Water temperature probe allowing automatic season change on electronic controllers supplied with water-side change over.

SW5: water probe kit (L = 15m) with probe-holder connection point, fixing clip and probe-holder from heat exchanger.

TX: Wall-mounting thermostat for controlling either brushless fan coils or those with asynchronous motors for 2/4 pipe. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices, radiant plate or FCZ-D twin delivery (Dualjet).

WMT10: Electronic thermostat, white, with thermostated or continuous ventilation.

Electric heaters it can be installed only at the factory

RXLE: Electric heater for heating, can be installed on board the units.

RXLE20: Electric heater for heating, can be installed on board the units.

Water valve kit

VCFLX4: 3-way valve kit for single-coil fan coil for 4-pipe systems. With totally separate "heating" and "cooling" circuits. This kit consists of two 3-way insulated valves and four connections, complete with electrothermal actuators, insulating shells for the valves, and the relative hydraulic couplings.

VHL1: 3-way motorised valve kit with 4 connections including the actuator. 230V~50Hz power supply.

VHL124: 3-way motorised valve kit with 4 connections including the actuator. 24V power supply.

VHL20: Motorised 3-way valve kit with 4 connections, complete with actuator and the relative hydraulic couplings. 230V~50Hz power supply.

VHL2024: Motorised 3-way valve kit with 4 connections, complete with actuator and the relative hydraulic couplings. 24V power supply.

VHL2: 2-way motorised valve kit with 2 connections including the actuator. Power supply 230V~50Hz;

VHL22: Motorised 2-way valve kit with 2 connections, complete with actuator and the relative hydraulic couplings. Power supply 230V~50Hz;

VHL2224: Motorised 2-way valve kit with 2 connections, complete with actuator and the relative hydraulic couplings. 24V power supply.

VHL224: 2-way motorised valve kit with 2 connections including the actuator. 24V power supply.

Installation accessories

KFL: Delivery flange, allowing the air to be directed to an adjacent room.

KFL20: Delivery flange, allowing the air to be directed to an adjacent room. Up to three KFL20 can be assembled on a single unit.

KFLD: Suction flange, allows to introduce external air directly into the room without mixing.

KFLD20: Suction flange, allows to introduce external air directly into the room without mixing. Up to two KFLD20 can be assembled on a single unit.

FCLMC10: Perimeter housing in painted galvanised sheet metal, 600x600 mm, used when the fan coil is installed outside the false ceiling. It has an aesthetic and protective purpose only, so the technical characteristics of the fan coil remain unaltered. Can only be combined with GLL/GLLI grilles.

FCLMC20: Perimeter housing in painted sheet metal, 840x840 mm, used when the fan coil is installed outside the false ceiling. It has an aesthetic and protective purpose only, so the technical characteristics of the fan coil remain unaltered. Can only be combined with GLL/GLLI grilles.

ACCESSORIES COMPATIBILITY

Intake grids and distribution of the air

Model	Ver	32	34	36	38	42	44	62	64
GLF10 (1)	FCL,V2,VL	*	*	*	*	*	*	*	*
GLF10EH (2)	FCL,V2,VL	*	*	*	*	*	*	*	*
GLF10M (3)	FCL,V2,VL	*	*	*	*	*	*	*	*
GLF10N (3)	FCL,V2,VL	*	*	*	*	*	*	*	*

Model	Ver	72	82	84	102	104	122	124
GLF10 (1)	FCL,V2,VL	*						
GLF10EH (2)	FCL,V2,VL	*						
GLF10M (3)	FCL,V2,VL	*						
GLF10N (3)	FCL,V2,VL	*						

(1) Not compatible with the VMF system and electric heaters.

(2) Not compatible with the VMF system, but compatible with electric heaters.

(3) Compatible with the VMF system and electric heaters.

Intake grid and distribution of the air

Model	Ver	32	34	36	38	42	44	62	64	72	82	84	102	104	122	124
GLL10 (1)	FCL,V2,VL	*	*	*	*	*	*	*	*	*						
GLL10N (2)	FCL,V2,VL	*	*	*	*	*	*	*	*	*						
GLL20 (1)	FCL,V2,VL										*	*	*	*	*	*
GLL20N (2)	FCL,V2,VL										*	*	*	*	*	*

(1) Not compatible with the VMF system and electric heaters.

(2) Compatibility with VMF system.

VMF system

Model	Ver	32	34	36	38	42	44	62	64
DI24	FCL,V2,VL	*	*	*	*	*	*	*	*
VMF-E3	FCL,V2,VL	*	*	*	*	*	*	*	*
VMF-E4DX	FCL,V2,VL	*	*	*	*	*	*	*	*
VMF-E4X	FCL,V2,VL	*	*	*	*	*	*	*	*
VMF-I0	FCL,V2,VL	*	*	*	*	*	*	*	*
VMF-IR	FCL,V2,VL	*	*	*	*	*	*	*	*
VMF-MOD	FCL,V2,VL	*	*	*	*	*	*	*	*
VMF-SW1	FCL,V2,VL	*	*	*	*	*	*	*	*

Model	Ver	72	82	84	102	104	122	124
DI24	FCL,V2,VL	*	*	*	*	*	*	*
VMF-E3	FCL,V2,VL	*	*	*	*	*	*	*
VMF-E4DX	FCL,V2,VL	*	*	*	*	*	*	*
VMF-E4X	FCL,V2,VL	*	*	*	*	*	*	*
VMF-I0	FCL,V2,VL	*	*	*	*	*	*	*
VMF-IR	FCL,V2,VL	*	*	*	*	*	*	*
VMF-MOD	FCL,V2,VL	*	*	*	*	*	*	*
VMF-SW1	FCL,V2,VL	*	*	*	*	*	*	*

Control panels and dedicated accessories

Model	Ver	32	34	36	38	42	44	62	64	72	82	84	102	104	122	124
AERS03IR (1)	FCL,V2,VL	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
SAS (2)	FCL,V2,VL	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
SIT3 (3)	FCL,V2,VL	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
SIT5 (4)	FCL,V2,VL	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
SW3 (2)	FCL,V2,VL	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
SW4	FCL,V2,VL	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
SW5 (2)	FCL,V2,VL	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
TX (5)	FCL,V2,VL	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*

Model	Ver	32	34	36	38	42	44	62	64	72	82	84	102	104	122	124
WMT10 (5)	FCL,V2,VL	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*

(1) Wall-mount installation.

(2) Probe for AER503IR-TX thermostats, if fitted.

(3) Cards for AER503IR-TX thermostats, if present, to be installed if the unit absorption exceeds 0,7 Ampere.

(4) Probe for AER503IR-TX thermostats, if fitted.

(5) Wall-mounting. If the unit intake exceeds 0,7A, or several units need to be managed with a single thermostat, board SIT3 and/or SIT5 is required.

3 way valve kit

4-way Valve Kit									
Model	Ver	32	34	36	38	42	44	62	64
VHL1 (1)	FCL,V2,VL		*		*		*		*
VHL124 (1)	FCL,V2,VL		*		*		*		*
Model	Ver	72	82	84	102	104	122	124	
VHL20 (1)	FCL,V2,VL			*		*		*	
VHL2024 (1)	FCL,V2,VL			*		*		*	

(1) Obligatory accessory in 4-pipe systems.

2 way valve kit

Model	Ver	32	34	36	38	42	44	62	64
VHL2 (1)	FCL,V2,VL		*		*		*		*
VHL224 (1)	FCL,V2,VL		*		*		*		*
Model	Ver	72	82	84	102	104	122	124	
VHL22 (1)	FCL,V2,VL			*		*		*	
VHL2224 (1)	FCL,V2,VL			*		*		*	

(1) Compulsory accessory in 4-pipe systems with variable flow rate.

Valve Kit for 4 pipe systems

Model	Ver	32	34	36	38	42	44	62	64	72
VCLX4 (1)	VL	*		*		*		*		*

(1) The valve must be commanded via command panels enabled for valve control.

Delivery flange

Delivery range

Model	Ver	32	34	36	38	42	44	62	64
KFL	FCL,V2,VL	*	*	*	*	*	*	*	*
KFLD	FCL,V2,VL	*	*	*	*	*	*	*	*

Model	Ver	72	82	84	102	104	122	124
KFL	FCL,V2,VL	*						
KFL20	FCL,V2,VL		*	*	*	*	*	*
KFLD	FCL,V2,VL	*						
KFLD20	FCL,V2,VL		*	*	*	*	*	*

Perimeter case

Model	Ver	32	34	36	38	42	44	62	64	72	82	84	102	104	122	124
FCLMC10 (1)	FCL,V2,VL	*	*	*	*	*	*	*	*	*						
FCLMC20 (1)	FCL,V2,VL										*	*	*	*	*	*

(1) Can only be combined with GLL/GLLI grilles

Electric heaters it can be installed only at the factory

Model	Ver	32	34	36	38	42	44	62	64	72
RXLE (1)	FCL,V2,VL	*		*		*		*		*

Model	Ver	82	84	102	104	122	124
RXLE20 (1)	FCL,V2,VL	*		*		*	*

(1) It is mandatory to provide one of the grids that manage the resistance.

2-pipe

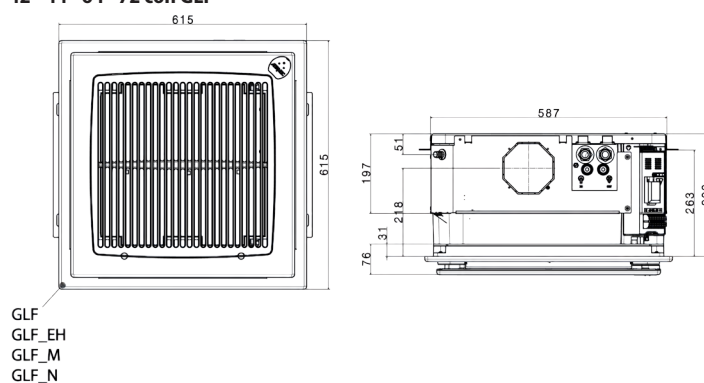
(1) Room air temperature 20 °C d.b.; Water (in/out) 70 °C/60 °C
(2) Room air temperature 20 °C d.b.; Water (in/out) 45 °C/40 °C; EUROVENT
(3) Aermec determines the sound power value on the basis of measurements taken in accordance with standard UNI EN 16583:15, respecting the Eurovent certification.

4-pipe

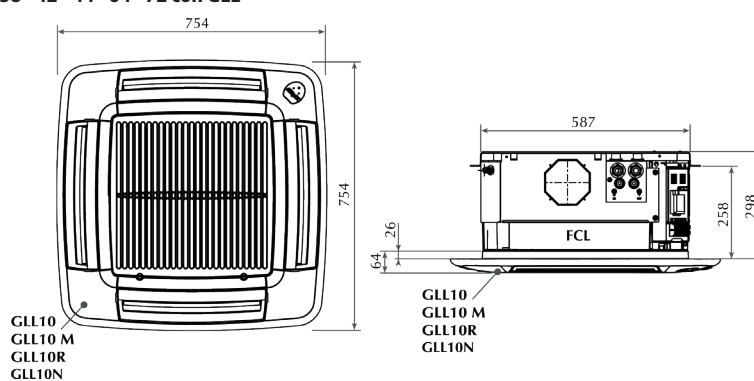
(2) Aermec determines the sound power value on the basis of measurements taken in accordance with standard UNI EN 16583:15, respecting the Eurovent certification.

DIMENSIONS

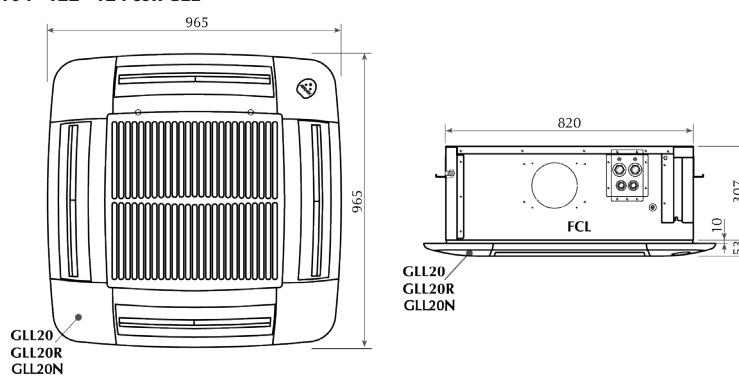
Dimensions FCL 32 - 34 - 36 - 38 - 42 - 44 - 64 - 72 con GLF



Dimensions FCL 32 - 34 - 36 - 38 - 42 - 44 - 64 - 72 con GLL



Dimensions FCL 82 - 84 - 102 - 104 - 122 - 124 con GLL



Size		102	104	122	124	32	34	36	38	42	44	62	64	72	82	84
Dimensions and weights																
Empty weight	FCL	kg	36	36	36	36	20	21	20	21	21	22	22	22	35	36
	V2	kg	36	36	36	36	20	21	20	21	21	21	22	22	35	36
	VL	kg	35	35	35	35	20	20	20	20	20	22	22	22	34	35

Aermec reserves the right to make any modifications deemed necessary.
All data is subject to change without notice. Aermec does not assume
responsibility or liability for errors or omissions.

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FCLI

Cassette Type Fan Coil Unit

- **Electric saving equal to 50% with respect to a fan coil with 3-speed motor**
- **Total comfort: reduced variations in temperature and relative humidity**
- **Standard internal three-way valve**
- **Version with 2-way valve for variable water flow rate systems**
- **Version without valves**



DESCRIPTION

4-way cassettes that can be installed in any type of 2- or 4-pipe system with any heat generator, even at low temperatures. Thanks to the selection of versions and configurations, it's easy to choose the best solution for every need.

FEATURES

Intake grid and distribution of the air

The recovery and air diffusion grille has an elegant design. In plastic, RAL 9010. The dimensions of the first 5 sizes comply with the 600x600 mm modularity of false ceilings, whereas the larger sizes measuring 840x840 mm are designed for quiet operation and optimum performance of these large models.

Load-bearing structure

Models with a 600x600 mm module have a reinforced load-bearing structure with side panels in galvanised steel sheet, thermally insulated with internal polystyrene foam elements.

The structure of models with a 840x840 mm module is made entirely of galvanised steel sheet, thermally insulated with polyethylene foam on the inside and with an anti-condensate felt coating.

Ventilation group

Formed of a particularly quiet axial-centrifugal fan, statically and dynamically balanced.

The Brushless electric motor with 0-100% continuous speed variation, which allows precise adaptation to the real demands of the internal environment without temperature fluctuations.

The air flow can be continuously changed through a 1-10 V signal, coming from adjustment and control commands Aermec or from independent adjustment systems.

This lowers noise and generates a better response to heat loads and a higher stability in the desired temperature inside the room.

The high efficiency even with low speed, makes it possible to reduce power consumption (more than 50% less than fan coils with traditional motors).

Heat exchanger coil

Heat exchanger with shaped profile to increase the exchange surface, and easily accessible drain valves.

There are models with a single coil for 2-pipe systems, with the possibility to add an electric heater too, and models with two coils for 4-pipe systems. There is the possibility to combine outside air with the inlet ambient air, and to distribute it in separate rooms.

The coil is not suitable for use in corrosive atmosphere or in environments where aluminium may be subject to corrosion.

Condensate drip

Condensation drip tray in one piece, with V0 self-extinguishing level and overmoulding to insulation in expanded polystyrene with flame retardant additive.

Air filter

Air filter easily removed and cleaned, self-supporting structure, characterised by a high efficiency and low pressure drops, with class-V0 fire resistance (UL 94).

Versions

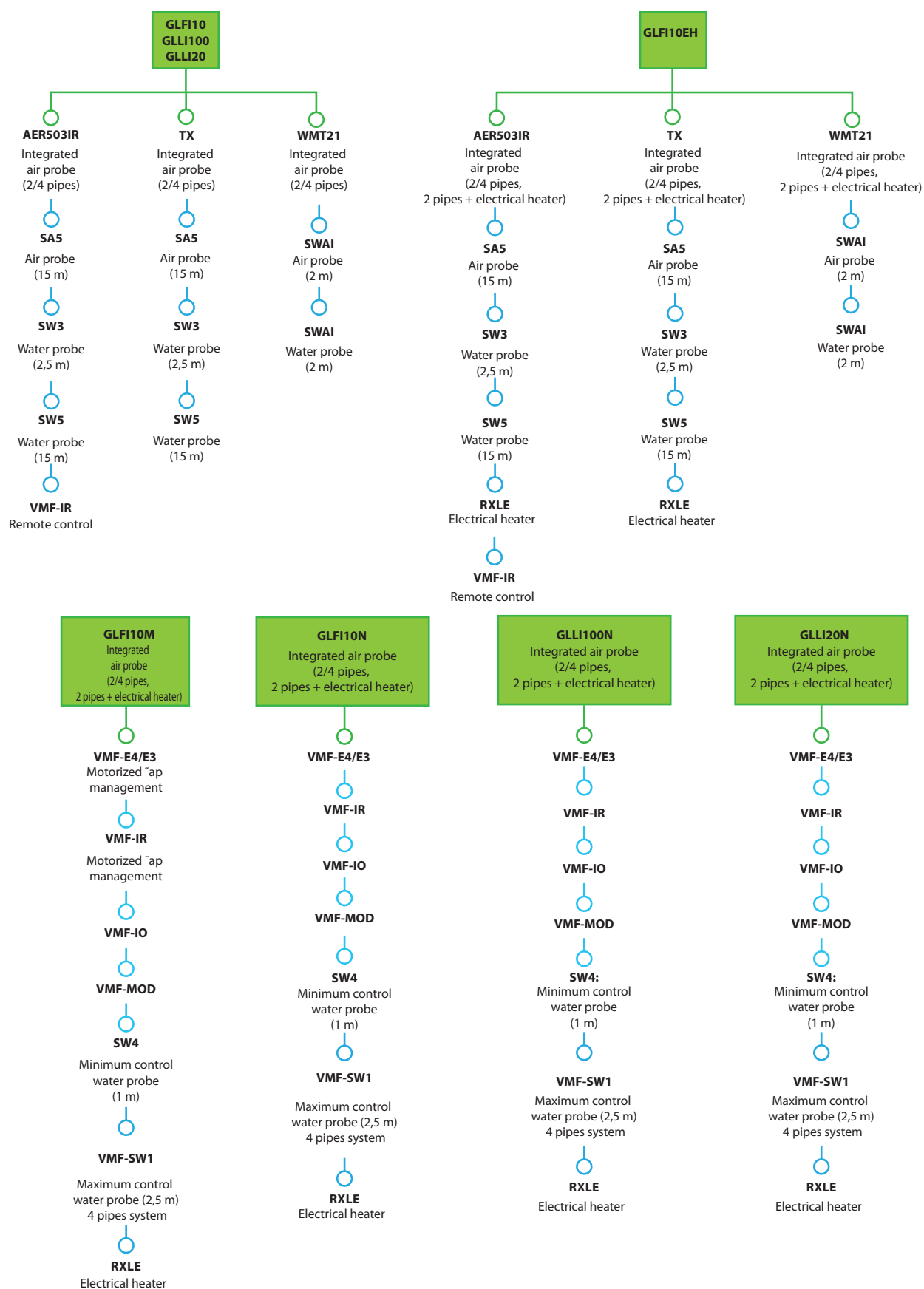
FCLI Standard

V2 With internal 2-way valve

VL Without internal valve

ACCESSORIES

Accessories that can be combined with the grilles



RXLE it can be installed only at the factory.

Intake grids and distribution of the air, compulsory accessory

GLFI10: Recovery and air supply grille in plastic, RAL 9010 colour, measuring 600x600 mm adapts perfectly to standard false ceilings without over-

lapping parts. Intake is in the central part, where the easily removable air filter is housed. Delivery is via the perimeter slits with manually orientated louvers. Must be combined with a wall-mounted panel. (size 840x840 mm not available).

GLFI10EH: Recovery and air supply grille in plastic, RAL 9010 colour, measuring 600x600 mm; adapts perfectly to standard false ceilings without overlapping parts. Suitable for use with the RXLE heater. Intake is in the central part, where the easily removable air filter is housed. Delivery is via the perimeter slits with manually orientated fins. Must be combined with a wall-mounted panel. (size 840x840 mm not available).

GLFI10M: Recovery and air supply grille in plastic, RAL 9010 colour, measuring 600x600 mm adapts perfectly to standard false ceilings without overlapping parts. It is equipped with an infrared receiver with an emergency operation button, a thermostat card which also requires the installation of the VMF-E4 panel or the VMF-IR remote control. Intake is in the central part, where the easily removable air filter is housed. Delivery is via the perimeter slits that can be orientated with the remote control. (size 840x840 not available).

GLFI10N: Recovery and air supply grille in plastic, RAL 9010 colour, measuring 600x600 mm, adapts perfectly to standard false ceilings without overlapping parts. Fitted with a thermostat board that necessarily requires the installation of the VMF-E4 or VMF-IR panel as well. Intake is in the central part, where the easily removable air filter is housed. Delivery is via the perimeter slits that can be manually orientated. (size 800x800 mm not available).

GLLI100: Recovery and air supply grille in plastic, RAL 9010 colour, measuring 600x600 mm; adapts perfectly to standard false ceilings without overlapping parts. Intake is in the central part, where the easily removable air filter is housed. Delivery is via the perimeter slits that can be manually orientated. Must be combined with a wall-mounted panel.

GLLI100EH: Recovery and air supply grille in plastic, RAL 9010 colour, measuring 600x600 mm; adapts perfectly to standard false ceilings without overlapping parts. Suitable for use with the RXLE heater. Intake is in the central part, where the easily removable air filter is housed. Delivery is via the perimeter slits with manually orientated fins. Must be combined with a wall-mounted panel. (size 840x840 mm not available).

GLLI100N: Recovery and air supply grille in plastic, RAL 9010 colour, measuring 600x600 mm; adapts perfectly to standard false ceilings without overlapping parts. Fitted with a thermostat board that necessarily requires the installation of the VMF-E4X panel as well, and suitable for use with the RXLE heater. Intake is in the central part, where the easily removable air filter is housed. Delivery is via the perimeter slits that can be manually orientated.

GLLI20: Recovery and air supply grille in plastic, RAL 9010 colour, measuring 840x840 mm, adapts perfectly to standard false ceilings without overlapping parts. Intake is in the central part, where the easily removable air filter is housed. Delivery is via the perimeter slits that can be manually orientated. Must be combined with a wall-mounted panel.

GLLI20N: Recovery and air supply grille in plastic, RAL 9010 colour, measuring 840x840 mm, adapts perfectly to standard false ceilings without overlapping parts. Fitted with a thermostat board that necessarily requires the installation of the VMF-E4X or VMF-IR panel as well. Intake is in the central part, where the easily removable air filter is housed. Delivery is via the perimeter slits that can be manually orientated.

AerSuite

The AerSuite application is used to remotely control the DI24 user interface, with VMF-E19/VMF-E19I thermostats, using Smart Devices with iOS and Android operating systems.

This is an application for Smartphones and Tablets with which the user can access and control the system operation remotely.

For more information about the use of the application and the available functions, refer to the respective documentation on the website.



VMF system

DI24: Flush-mounted interface (503 box) with 2.4" touch screen display to be combined with VMF-E19, VMF-E19I accessories. It allows you to regulate and monitor the temperature inside rooms precisely and on time; in addition to accessing and interacting with your system's operating information, parameters and alarms, it allows you to set time slots. Thanks to its Wi-Fi connection, DI24 in combination with the AerSuite APP (available for Android and iOS) can also be remotely controlled. All programming and most functions are done in a simple and intuitive way using the APP. To allow for customization of the interface so that it seamlessly integrates with the style of any home, DI24 is compatible with switch plates from major brands available on the market. For more information, please refer to our documentation. However, a switch plate with its graphite gray support, DI24CP, is also available as a separate accessory in our catalog.

VMF-E3: Wall mounted user interface, to be combined with accessories VMF-E19, VMF-E19I, with grids GLF_N/M and GLL_N, can be controlled with VMF-IR control.

VMF-E4DX: Wall-mounted user interface. Grey front panel PANTONE 425C (METAL).

VMF-E4X: Wall-mounted user interface. Light grey front panel PANTONE COOL GRAY 1C.

VMF-IO: Manage the unit exclusively from a centralized VMF control panel without area control panel.

VMF-IR: User interface compatible with the AER503IR, VMF-E3 thermostat and with all the grids of cassettes equipped with the infrared receiver compatible with the VMF system.

VMF-MOD: Expansion board for the management of modulating valves.

VMF-SW: Water probe (L = 2.5m) used if required in place of the standard unit supplied with the VMF-E19 and VMF-E19I thermostats for mounting it upstream of the valve.

VMF-SW1: Additional water probe (L = 2.5m) to be used if required for 4-pipe systems with the VMF-E19 and VMF-E19I thermostats for maximum control in the cold range

VMHI: The VMHI panel can be used as a user interface for VMF-E19/E19I thermostats, GLFxN/M or GLLxN grids, or as an interface for the MZC system. What determines the function to be performed by the user interface is determined by its correct parametrisation and by following the electrical connections between interface and thermostat or interface and plenum.

Control panels and their accessories

AER503IR: Flush-mounting thermostat with backlit display, capacitive keypad and infrared receiver, for controlling both brushless fan coils and those with an asynchronous motor. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices (Cold Plasma and germicidal lamp), with radiant plate or with FCZ-D twin delivery (Dualjet). In addition, it can control systems with radiant panels or mixed (fan coil and radiant floor) systems. Being equipped with an infrared receiver, it can, in turn, be controlled by the VMF-IR remote control.

SA5: air probe kit (L = 15 m) with probe-locking cable grommet.

SW3: Water probe (L = 2.5 m) for controlling the minimum and maximum and to allow automatic seasonal switching for electronic thermostats fitted with water side changeover.

SW4: Water temperature probe allowing automatic season change on electronic controllers supplied with water-side change over.

SW5: water probe kit (L = 15m) with probe-holder connection point, fixing clip and probe-holder from heat exchanger.

SWAI: External air or water temperature probe.

TX: Wall-mounting thermostat for controlling either brushless fan coils or those with asynchronous motors for 2/4 pipe. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices, radiant plate or FCZ-D twin delivery (Dualjet).

WMT21: Electronic thermostat for inverter fancoils.

Electric heaters

RXLE: Electric heater for heating, can be installed on board the units.

RXLE20: Electric heater for heating, can be installed on board the units.

Water valve kit

VCFLX4: 3-way valve kit for single-coil fan coil for 4-pipe systems. With totally separate "heating" and "cooling" circuits. This kit consists of two 3-way insulated valves and four connections, complete with electrothermal actuators, insulating shells for the valves, and the relative hydraulic couplings.

VHL1: 3-way motorised valve kit with 4 connections including the actuator. 230V~50Hz power supply.

VHL124: 3-way motorised valve kit with 4 connections including the actuator. 24V power supply.

VHL20: Motorised 3-way valve kit with 4 connections, complete with actuator and the relative hydraulic couplings. 230V~50Hz power supply.

VHL2024: Motorised 3-way valve kit with 4 connections, complete with actuator and the relative hydraulic couplings. 24V power supply.

VHL2: 2-way motorised valve kit with 2 connections including the actuator. Power supply 230V~50Hz;

VHL22: Motorised 2-way valve kit with 2 connections, complete with actuator and the relative hydraulic couplings. Power supply 230V~50Hz;

VHL2224: Motorised 2-way valve kit with 2 connections, complete with actuator and the relative hydraulic couplings. 24V power supply.

VHL224: 2-way motorised valve kit with 2 connections including the actuator. 24V power supply.

Installation accessories

KFL: Delivery flange, allowing the air to be directed to an adjacent room.

KFL20: Delivery flange, allowing the air to be directed to an adjacent room. Up to three KFL20 can be assembled on a single unit.

KFLD: Suction flange, allows to introduce external air directly into the room without mixing.

KFLD20: Suction flange, allows to introduce external air directly into the room without mixing. Up to two KFLD20 can be assembled on a single unit.

FCLMC10: Perimeter housing in painted galvanised sheet metal, 600x600 mm, used when the fan coil is installed outside the false ceiling. It has an aesthetic and protective purpose only, so the technical characteristics of the fan coil remain unaltered. Can only be combined with GLL/GLLI grilles.

FCLMC20: Perimeter housing in painted sheet metal, 840x840 mm, used when the fan coil is installed outside the false ceiling. It has an aesthetic and protective purpose only, so the technical characteristics of the fan coil remain unaltered. Can only be combined with GLL/GLLI grilles.

FCLMC20IK: Installation kit for the inverter controller. Mandatory for units with FCLMC20.

ACCESSORIES COMPATIBILITY

Intake grids and distribution of the air

Model	Ver	32	34	42	44	62	64	82	122	124
GLF110 (1)	FCLI,V2,VL	*	*	*	*	*	*			
GLF110EH (2)	FCLI,V2,VL	*	*	*	*	*	*			
GLF110M (3)	FCLI,V2,VL	*	*	*	*	*	*			
GLF110N (3)	FCLI,V2,VL	*	*	*	*	*	*			

(1) Not compatible with the VMF system and electric heaters.

(2) Not compatible with the VMF system, but compatible with electric heaters.

(3) Compatible with the VMF system and electric heaters.

Intake grid and distribution of the air

Model	Ver	32	34	42	44	62	64	82	122	124
GLLI100 (1)	FCLI,V2,VL	*	*	*	*	*	*			
GLLI100EH (2)	FCLI,V2,VL	*	*	*	*	*	*			
GLLI100N (3)	FCLI,V2,VL	*	*	*	*	*	*			
GLLI20 (1)	FCLI,V2,VL							*	*	*
GLLI20N (4)	FCLI,V2,VL							*	*	*

(1) Not compatible with the VMF system and electric heaters.

(2) Not compatible with the VMF system, but compatible with electric heaters.

(3) Compatible with the VMF system and electric heaters.

(4) Compatibility with VMF system.

VMF system

Model	Ver	32	34	42	44	62	64	82	122	124
DI24	FCLI,V2,VL	*	*	*	*	*	*	*	*	*
VMF-E3	FCLI,V2,VL	*	*	*	*	*	*	*	*	*
VMF-E4DX	FCLI,V2,VL	*	*	*	*	*	*	*	*	*
VMF-E4X	FCLI,V2,VL	*	*	*	*	*	*	*	*	*
VMF-I0	FCLI,V2,VL	*	*	*	*	*	*	*	*	*
VMF-IR	FCLI,V2,VL	*	*	*	*	*	*	*	*	*
VMF-MOD	FCLI,V2,VL	*	*	*	*	*	*	*	*	*
VMF-SW	FCLI,V2,VL	*	*	*	*	*	*	*	*	*
VMF-SW1	FCLI,V2,VL	*	*	*	*	*	*	*	*	*
VMHI	FCLI,V2,VL	*	*	*	*	*	*	*	*	*

Control panels and dedicated accessories

Model	Ver	32	34	42	44	62	64	82	122	124
AER503IR (1)	FCLI,V2,VL	*	*	*	*	*	*	*	*	*
SAS (2)	FCLI,V2,VL	*	*	*	*	*	*	*	*	*
SW3 (2)	FCLI,V2,VL	*	*	*	*	*	*	*	*	*
SW4	FCLI,V2,VL	*	*	*	*	*	*	*	*	*
SW5 (2)	FCLI,V2,VL	*	*	*	*	*	*	*	*	*
SWA1 (3)	FCLI,V2,VL	*	*	*	*	*	*	*	*	*
TX (4)	FCLI,V2,VL	*	*	*	*	*	*	*	*	*
WMT21	FCLI,V2,VL	*	*	*	*	*	*	*	*	*

(1) Wall-mount installation.

(2) Probe for AER503IR-TX thermostats, if fitted.

(3) Probe for thermostat WMT21.

(4) Wall-mounting. If the unit intake exceeds 0.7A, or several units need to be managed with a single thermostat, board SIT3 and/or SIT5 is required.

3 way valve kit

Model	Ver	32	34	42	44	62	64	82	122	124
VHL1 (1)	VL		*		*		*			
VHL124 (1)	VL		*		*		*			
VHL20 (1)	VL									*
VHL2024 (1)	VL									*

(1) Obligatory accessory in 4-pipe systems.

2 way valve kit

Model	Ver	32	34	42	44	62	64	82	122	124
VHL2 (1)	VL		•		•		•			
VHL22 (1)	VL									•
VHL2224 (1)	VL									•
VHL224 (1)	VL		•		•		•			

(1) Compulsory accessory in 4-pipe systems with variable flow rate.

Valve Kit for 4 pipe systems

Model	Ver	32	34	42	44	62	64	82	122	124
VCFLX4 (1)	VL	•		•		•				

(1) The valve must be commanded via command panels enabled for valve control.

Delivery and suction flange

Model	Ver	32	34	42	44	62	64	82	122	124
KFL	FCLI,V2,VL	•	•	•	•	•	•			
KFL20	FCLI,V2,VL							•	•	•
KFLD	FCLI,V2,VL	•	•	•	•	•	•			
KFLD20	FCLI,V2,VL							•	•	•

Perimeter case

Model	Ver	32	34	42	44	62	64	82	122	124
FCLMC10 (1)	FCLI,V2,VL	•	•	•	•	•	•			
FCLMC20 (1)	FCLI,V2,VL							•	•	•
FCLMC20IK (2)	FCLI,V2,VL							•	•	•

(1) Can only be combined with GLL/GLLI grilles

(2) Mandatory for units with FCLMC20.

PERFORMANCE SPECIFICATIONS

2-pipe

		FCL132			FCL142			FCL162			FCL182			FCL1122		
		1	2	3	1	2	4	1	2	4	1	2	4	1	2	4
		L	M	H	L	M	H	L	M	H	L	M	H	L	M	H
Heating performance 70 °C / 60 °C (1)																
Heating capacity	kW	2,22	2,95	4,00	3,32	4,47	7,34	5,19	6,37	10,49	5,88	8,12	11,88	10,53	14,73	21,75
Water flow rate system side	l/h	194	258	350	290	391	642	454	558	918	514	710	1039	921	1289	1903
Pressure drop system side	kPa	4	6	10	6	10	24	12	17	42	7	13	26	11	21	42
Heating performance 45 °C / 40 °C (2)																
Heating capacity	kW	1,10	1,47	1,98	1,67	2,21	3,64	2,58	3,21	5,21	2,94	4,05	5,90	5,28	7,37	10,80
Water flow rate system side	l/h	192	254	345	287	386	633	448	550	905	507	701	1025	909	1271	1877
Pressure drop system side	kPa	4	6	11	5	9	21	10	17	41	7	13	23	12	21	41
Cooling performance 7 °C / 12 °C																
Cooling capacity	kW	1,15	1,46	1,88	1,95	2,52	3,90	2,65	3,19	4,92	2,79	4,04	5,97	5,34	7,47	10,87
Sensible cooling capacity	kW	0,98	1,24	1,50	1,37	1,80	3,11	1,85	2,25	3,75	1,89	2,76	4,17	4,02	5,70	8,34
Water flow rate system side	l/h	200	253	327	337	437	679	458	551	856	482	695	1032	921	1292	1893
Pressure drop system side	kPa	4	4	13	7	11	25	12	16	36	7	12	28	10	19	38
Fan																
Type	type	Centrifugal			Centrifugal			Centrifugal			Centrifugal			Centrifugal		
Fan motor	type	Inverter			Inverter			Inverter			Inverter			Inverter		
Number	no.	1			1			1			1			1		
Air flow rate	m³/h	300	410	600	260	360	700	380	500	880	460	680	1100	750	1100	1750
Input power	W	10	13	18	12	16	55	14	20	61	10	14	33	16	33	135
Signal 0-10V	%	42	62	90	34	46	90	40	52	90	38	54	90	38	54	90
Cassettes sound data (3)																
Sound power level (4)	dB(A)	35,0	38,0	46,0	35,0	38,0	53,0	41,0	47,0	61,0	39,0	43,0	50,0	44,0	50,0	60,0
Sound pressure level (5)	dB(A)	26,0	29,0	37,0	26,0	30,0	44,0	32,0	38,0	52,0	30,0	34,0	41,0	35,0	41,0	51,0
Diameter hydraulic fittings																
Main heat exchanger	Ø	3/4"			3/4"			3/4"			3/4"			3/4"		
Secondary heat exchanger	Ø	-			-			-			-			-		
Power supply																
Power supply		230V~50Hz			230V~50Hz			230V~50Hz			230V~50Hz			230V~50Hz		

(1) Room air temperature 20 °C d.b.; Water (in/out) 70 °C/60 °C

(2) Room air temperature 20 °C d.b.; Water (in/out) 45 °C/40 °C; EUROVENT

(3) For the cassettes, Aermec determines the value of the sound power on the basis of measurements carried out in accordance with the standard UNI EN 16583:15, in observance of the EUROVENT certification and the level of sound pressure (weighed A) measured in an environment with volume V=100m³, reverberation time t=0.5s direction factor Q=2; distance r=2.5m.

(4) Aermec determines the sound power value on the basis of measurements taken in accordance with standard UNI EN 16583:15, respecting the Eurovent certification.

(5) Sound pressure (weighed A) measured in an environment with volume V=100m³, reverberation time t=0.5s direction factor Q=2; distance r=2.5m.

4-pipe

		FCL134			FCL144			FCL164			FCL124		
		1	2	3	1	2	3	1	2	4	1	2	4
		L	M	H	L	M	H	L	M	H	L	M	H
Heating performance 65 °C/ 55 °C (1)													
Heating capacity	kW	1,70	1,97	2,32	1,70	2,02	2,74	2,05	2,76	3,14	6,46	8,30	11,10
Water flow rate system side	l/h	152	171	203	153	178	240	194	219	279	551	727	977
Pressure drop system side	kPa	5	7	9	6	7	12	9	11	19	10	15	25
Cooling performance 7 °C/ 12 °C													
Cooling capacity	kW	1,15	1,46	1,88	1,80	2,32	3,59	2,29	2,76	4,25	4,55	6,19	8,67
Sensible cooling capacity	kW	0,98	1,24	1,50	1,26	1,66	2,87	1,59	1,93	3,22	3,35	4,64	6,64
Water flow rate system side	l/h	200	253	327	314	396	626	424	510	793	786	1068	1513
Pressure drop system side	kPa	4	7	10	6	10	23	16	23	50	10	20	38
Fan													
Type	type	Centrifugal											
Fan motor	type	Inverter											
Number	no.	1			1			1			1		
Air flow rate	m³/h	300	410	600	260	360	700	380	500	880	750	1100	1750
Input power	W	10	13	18	12	16	55	14	20	61	16	33	135
Signal 0-10V	%	42	62	90	34	46	90	40	52	90	38	58	90
Cassettes sound data (2)													
Sound power level (3)	dB(A)	35,0	38,0	46,0	35,0	39,0	53,0	41,0	47,0	61,0	44,0	52,0	60,0
Sound pressure level (4)	dB(A)	26,0	29,0	37,0	26,0	30,0	44,0	32,0	38,0	52,0	35,0	41,0	51,0
Diametre hydraulic fittings													
Main heat exchanger	Ø	3/4"											
Secondary heat exchanger	Ø	1/2"											
Power supply													
Power supply		230V~50Hz											

(1) Room air temperature 20 °C d.b.; Water (in/out) 65 °C/55 °C; EUROVENT

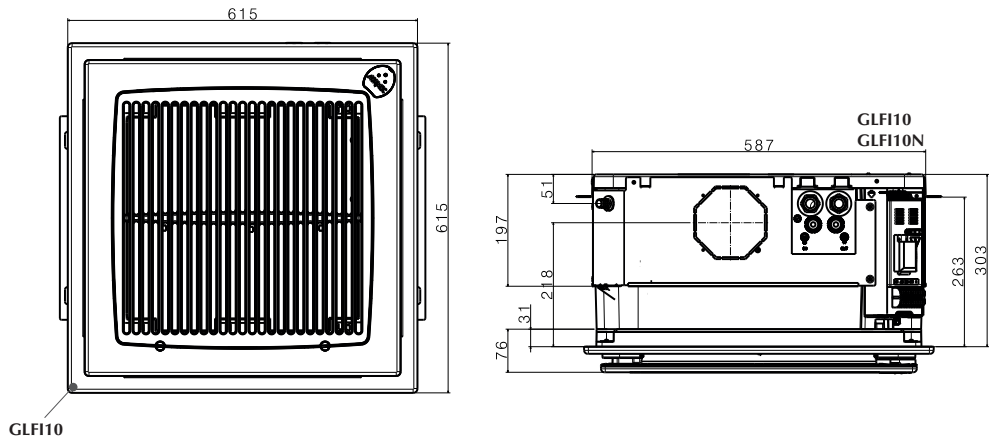
(2) For the cassettes, Aermec determines the value of the sound power on the basis of measurements carried out in accordance with the standard UNI EN 16583:15, in observance of the EUROVENT certification and the level of sound pressure (weighed A) measured in an environment with volume V=100m³, reverberation time t=0.5s direction factor Q=2; distance r=2.5m.

(3) Aermec determines the sound power value on the basis of measurements taken in accordance with standard UNI EN 16583:15, respecting the Eurovent certification.

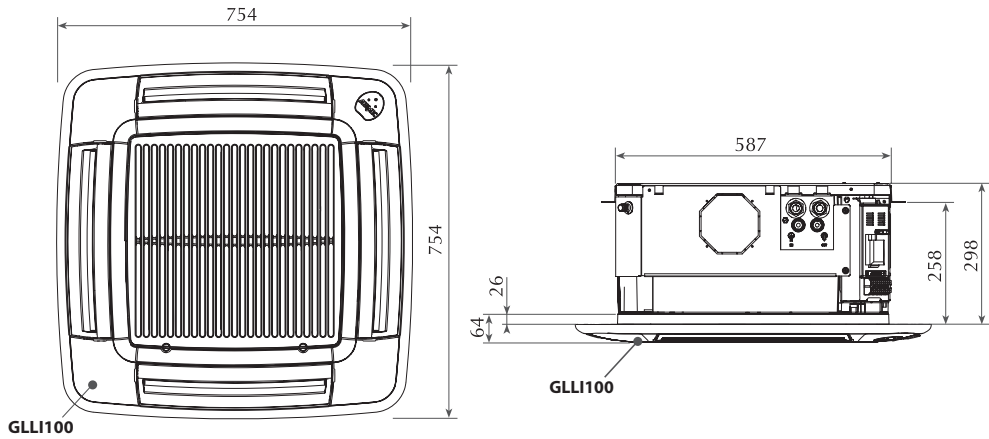
(4) Sound pressure (weighed A) measured in an environment with volume V=100m³, reverberation time t=0.5s direction factor Q=2; distance r=2.5m.

DIMENSIONS

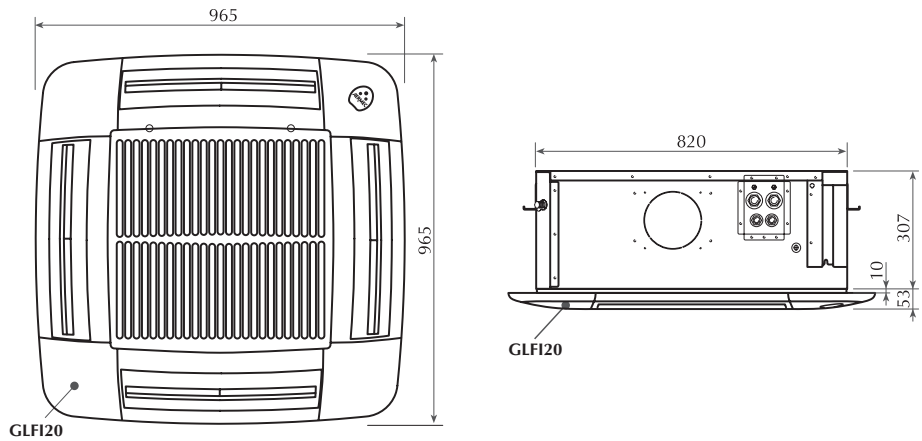
Dimensions FCLI 32 - 34 - 42 - 44 - 62 - 64 con GLFI



Dimensions FCLI 32 - 34 - 42 - 44 - 62 - 64 con GLLI



Dimensions FCLI 82 - 122 - 124 con GLLI



Size			122	124	32	34	42	44	62	64	82
Dimensions and weights											
Empty weight	FCLI	kg	36	36	21	21	22	21	22	23	35
	V2	kg	36	36	21	21	21	21	22	23	35
	VL	kg	35	35	20	21	20	21	22	22	34

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FCW

Fan coils wall-mount installation



- Versions with internal 2 or 3-way valve
- Compact dimensions



DESCRIPTION

Fan coil model for wall-mount installations, whose elegance and reduced dimensions make it aesthetically pleasing; this terminal is thus suitable for applications in residential or light commercial sectors.

To respond to the various system requirements, the product is configurable and available with or without (2- or 3-way) valve, as well as with or without control board, which ensures compatibility with various system requirements. Fan coils without control board must be necessarily combined with an external control device.

VERSIONS

- 2V** Internal 2-way valve and microprocessor control
- 2VN** Internal 2-way valve without microprocessor control
- 3V** Internal 3-way valve and microprocessor control
- 3VN** Internal 3-way valve without microprocessor control
- VL** Without internal valve but with microprocessor control
- VLN** Without internal valve and microprocessor control

FEATURES

Case

Aesthetically styled with flat panel:

- Microprocessor control
- Air flow louvered louvers with horizontal adjustment facility

- Colors pure white pantone GRIS 1C RAL 9010.

Ventilation group

Consisting of a tangential fan, especially quiet and directly coupled to the motor shaft.

Three-speed cross flow fan.

Finned pack heat exchanger

With copper pipes and aluminium louvers, the main heat exchanger has female gas water connections on the left side and the manifolds have air vents.

The coil is not suitable for use in corrosive atmosphere or in environments where aluminium may be subject to corrosion.

Air filter

Fan coils are fitted with air filters easy to remove and clean.

Control

The versions with microprocessor control have:

- Timer for programming switch-off or switch-on (TLW4 e PFW5)
- Program for operation in automatic, cooling, heating, ventilation and air ionising mode (TLW4 e PFW5)
- Night time Well-being Program (TLW4)
- Automatic season change (TLW4 e PFW5)
- Automatic re-start after power cut.

ACCESSORIES

FCWCP: Cold plasma mounting kit

For models with control board installed

FCW_2V, 3V, VL it is mandatory to select among the user interfaces designed for the FCW series (TLW4 o PFW5)

PFW5: This accessory is essential for fan coil operation (as an alternative to TLW4). The PFW5 wired panel is supplied separately from the fan coil. It is used to set the main device operating parameters, and is essential for setting the Modbus address of the unit (handy only if you want to command the unit via the RS-485 port).

TLW4: Mandatory accessory. Infrared remote control with liquid crystal display for controlling all unit functions. The remote control is delivered separately from the fan coil; with a single remote control it is possible to control more than one fan coil. The remote control is equipped with a support that allows you to hang it on the wall, from which it can be operated without having to be removed.



PFW5



TLW4

For models without control board installed

FCW_2VN, 3VN, VLN a user interface must be mounted outside the fan coil, using either a visible or a recessed wall-mount installation.

To make the selection please refer to the "control panels" or "VMF system shett" where you will find comprehensive information on this topic.

VMF-485LINK: Expansion to interface the unit with the VMF communication protocol, making it possible to manage it from the VMF-E5 or VMF-E6 supervisors.

ACCESSORIES COMPATIBILITY

Control panels and dedicated accessories

Accessory	FCW23VL	FCW33VL	FCW43VL	FCW53VL	FCW232V	FCW233V
PFW5 (1)	*	*	*	*	*	*
TLW4 (1)	*	*	*	*	*	*

Accessory	FCW332V	FCW333V	FCW432V	FCW433V	FCW532V	FCW533V
PFW5 (1)	*	*	*	*	*	*
TLW4 (1)	*	*	*	*	*	*

(1) Mandatory accessory.

Cold plasma mounting kit

Accessory	FCW23VL	FCW33VL	FCW43VL	FCW53VL	FCW232V	FCW232VN	FCW233V	FCW233VN	FCW332V	FCW332VN
FCWCP	*	*	*	*	*	*	*	*	*	*

Accessory	FCW333V	FCW333VN	FCW432V	FCW432VN	FCW433V	FCW433VN	FCW532V	FCW532VN	FCW533V	FCW533VN
FCWCP	*	*	*	*	*	*	*	*	*	*

VMF system

Accessory	FCW23VL	FCW33VL	FCW43VL	FCW53VL	FCW232V	FCW233V
VMF-485LINK	*	*	*	*	*	*

Accessory	FCW332V	FCW333V	FCW432V	FCW433V	FCW532V	FCW533V
VMF-485LINK	*	*	*	*	*	*

The VMF-485LINK accessory is not compatible with radiant floor heating systems.

PERFORMANCE SPECIFICATIONS

2-pipe

	FCW23VL			FCW33VL			FCW43VL			FCW53VL			FCW232V			FCW233V		
	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H

Heating performance 70 °C / 60 °C (1)

Heating capacity	kW	2,85	3,66	4,29	3,73	4,51	5,24	6,44	7,84	8,56	8,20	13,06	15,28	2,35	3,02	4,03	2,35	3,02	4,03
Water flow rate system side	l/h	250	321	377	328	396	460	565	688	751	718	1145	1339	206	265	354	206	265	354
Pressure drop system side	kPa	4	6	9	9	12	16	16	22	26	10	23	30	9	14	24	9	14	24

Heating performance 45 °C / 40 °C (2)

Heating capacity	kW	1,42	1,82	2,14	1,85	2,24	2,61	3,21	3,90	4,26	4,10	6,50	7,60	1,17	1,50	2,00	1,17	1,50	2,00
Water flow rate system side	l/h	246	316	371	322	390	453	556	677	739	712	1129	1320	203	261	348	203	261	348
Pressure drop system side	kPa	4	6	8	9	12	16	15	22	25	10	22	29	9	14	24	9	14	24

Cooling performance 7 °C / 12 °C

Cooling capacity	kW	1,37	1,74	2,05	1,78	2,15	2,50	3,07	3,74	4,08	4,40	6,50	7,45	1,10	1,45	1,90	1,10	1,45	1,90
Sensible cooling capacity	kW	1,16	1,47	1,73	1,51	1,82	2,04	2,59	3,10	3,47	3,30	5,05	5,80	0,92	1,20	1,55	0,92	1,20	1,55
Water flow rate system side	l/h	236	299	353	306	370	430	528	643	702	755	1115	1278	189	249	327	189	249	327
Pressure drop system side	kPa	5	7	9	8	11	15	15	21	26	12	24	30	9	14	23	9	14	23

Fan

Type	type	Tangential			Tangential			Tangential			Tangential			Tangential			Tangential		
Fan motor	type	Asynchronous			Asynchronous			Asynchronous			Asynchronous			Asynchronous			Asynchronous		
Number	no.	1			1			1			1			1			1		
Air flow rate	m³/h	280	340	389	330	400	446	476	602	684	592	945	1179	270	330	380	270	330	380
Input power	W	23	24	27	22	23	27	31	41	48	38	55	75	23	24	27	23	24	27

Fan coil sound data (3)

Sound power level	dB(A)	42,0	48,0	53,0	42,0	48,0	53,0	44,0	49,0	54,0	44,0	54,0	60,0	42,0	48,0	53,0	42,0	48,0	53,0
Sound pressure level	dB(A)	34,0	39,5	44,5	34,0	39,5	44,5	35,5	40,5	45,5	35,5	45,5	51,5	34,0	39,5	44,5	34,0	39,5	44,5

Diameter hydraulic fittings

Main heat exchanger	Ø	1/2"			1/2"			1/2"			3/4"			1/2"			1/2"		
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Power supply

Power supply		230V~50Hz			230V~50Hz			230V~50Hz			230V~50Hz			230V~50Hz			230V~50Hz		
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	FCW332V			FCW333V			FCW432V			FCW433V			FCW532V			FCW533V		
	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H

Heating performance 70 °C / 60 °C (1)

Heating capacity	kW	3,25	4,36	5,03	3,25	4,36	5,03	6,29	7,23	7,97	6,29	7,23	7,97	8,04	11,80	14,00	8,04	11,80	14,00
Water flow rate system side	l/h	286	383	442	286	383	442	552	635	699	552	635	699	704	1034	1227	704	1034	1227
Pressure drop system side	kPa	13	22	29	13	22	29	21	27	32	21	27	32	10	21	28	10	21	28

Heating performance 45 °C / 40 °C (2)

Heating capacity	kW	1,62	2,17	2,50	1,62	2,17	2,50	3,13	3,60	3,96	3,13	3,60	3,96	4,00	5,90	7,00	4,00	5,90	7,00
Water flow rate system side	l/h	281	377	434	281	377	434	543	624	688	543	624	688	695	1025	1216	695	1025	1216
Pressure drop system side	kPa	13	22	29	13	22	29	20	26	31	20	26	31	11	22	30	11	22	30

Cooling performance 7 °C / 12 °C

Cooling capacity	kW	1,55	2,08	2,40	1,55	2,08	2,40	3,00	3,45	3,80	3,00	3,45	3,80	4,00	6,00	7,00	4,00	6,00	7,00
Sensible cooling capacity	kW	1,28	1,68	1,97	1,28	1,68	1,97	2,01	2,50	2,85	2,01	2,50	2,85	2,85	4,50	5,30	2,85	4,50	5,30
Water flow rate system side	l/h	267	358	413	267	358	413	516	593	654	516	593	654	686	1030	1201	686	1030	1201
Pressure drop system side	kPa	13	22	29	13	22	29	21	27	32	21	27	32	11	23	30	11	23	30

Fan

Type	type	Tangential			Tangential			Tangential			Tangential			Tangential			Tangential		
Fan motor	type	Asynchronous			Asynchronous			Asynchronous			Asynchronous			Asynchronous			Asynchronous		
Number	no.	1			1			1			1			1			1		
Air flow rate	m³/h	320	390	440	320	390	440	370	470	540	370	470	540	535	859	1082	535	859	1082
Input power	W	22	23	27	22	23	27	31	41	48	31	41	48	38	55	75	38	55	75

Fan coil sound data (3)

Sound power level	dB(A)	42,0	48,0	53,0	42,0	48,0	53,0	44,0	49,0	54,0	44,0	49,0	54,0	44,0	54,0	60,0	44,0	54,0	60,0
Sound pressure level	dB(A)	34,0	39,5	44,5	34,0	39,5	44,5	35,5	40,5	45,5	35,5	40,5	45,5	35,5	45,5	51,5	35,5	45,5	51,5

Diameter hydraulic fittings

Main heat exchanger	Ø	1/2"			1/2"			1/2"			1/2"			3/4"			3/4"		
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Power supply

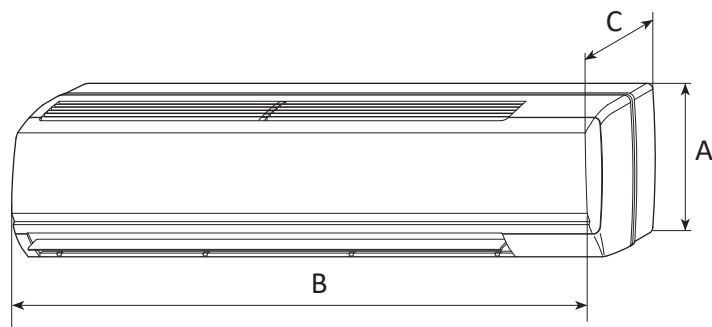
Power supply		230V~50Hz			230V~50Hz			230V~50Hz			230V~50Hz			230V~50Hz			230V~50Hz		
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(1) Room air temperature 20 °C d.b.; Water (in/out) 70 °C/60 °C

(2) Room air temperature 20 °C d.b.; Water (in/out) 45 °C/40 °C; EUROVENT

(3) Aermec determines the sound power value on the basis of measurements taken in accordance with standard UNI EN 16583:15, respecting the Eurovent certification.

DIMENSIONS



		FCW23VL	FCW33VL	FCW43VL	FCW53VL	FCW232V	FCW233V
Dimensions and weights							
A	mm	298	305	360	365	298	298
B	mm	880	990	1170	1450	880	880
C	mm	205	210	220	230	205	205
Empty weight	kg	9	10	19	28	9	9

		FCW332V	FCW333V	FCW432V	FCW433V	FCW532V	FCW533V
Dimensions and weights							
A	mm	305	305	360	360	365	365
B	mm	990	990	1170	1170	1450	1450
C	mm	210	210	220	220	230	230
Empty weight	kg	10	10	19	19	28	28

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FCWI

Fan coils wall-mount installation



- Versions with internal 2 or 3-way valve
- Electric saving equal to 50% with respect to a fan coil with 3-speed motor
- Total comfort: reduced temperature and humidity oscillations
- Fully silent operation



DESCRIPTION

Fan coil model for wall-mount installations, whose elegance and reduced dimensions make it aesthetically pleasing; this terminal is thus suitable for applications in residential or light commercial sectors. The product is configurable and available with or without (2- or 3-way) valve which ensures compatibility with various system requirements.

VERSIONS

- 2V** Internal 2-way valve and microprocessor control
- 3V** Internal 3-way valve and microprocessor control
- VL** Without internal valve but with microprocessor control

FEATURES

Case

Aesthetically styled with flat panel:

- Air flow louvered louvers with horizontal adjustment facility
- Motorised deflector louvers that can be activated by remote control TLW3 for vertical orientation of the outlet air with steps fixed positions and continuous oscillation
- Colors pure white pantone GRIS 1C RAL 9010.

Ventilation group

Consisting of a tangential fan, especially quiet and directly coupled to the motor shaft.

Brushless motor with continuous speed variation 0-100%.

Inverter motor allows precise adaptation to the real indoor environment requirements without temperature oscillations.

This lowers noise and generates a better response to heat loads and a higher stability in the desired temperature inside the room.

The high efficiency even with low speed, makes it possible to reduce power consumption (more than 50% less than fan coils with traditional motors).

Finned pack heat exchanger

With copper pipes and aluminium louvers, the main heat exchanger has female gas water connections on the left side and the manifolds have air vents.

The coil is not suitable for use in corrosive atmosphere or in environments where aluminium may be subject to corrosion.

Air filter

Fan coils are fitted with air filters easy to remove and clean.

Control

The versions with microprocessor control have:

- Timer for programming switch-off or switch-on (TLW4/ PFW4)
- Program for operation in automatic, cooling, heating, ventilation and air ionising mode (TLW4/ PFW4)
- Night time Well-being Program (TLW4/ PFW4)
- Automatic season change (TLW4/ PFW4)
- Automatic re-start after power cut.
- Possibility of using a contact on the board to switch off the unit (window contact) or change the set point (presence contact) via microswitch.
- Controllable via RS485 port with Modbus RTU communication protocol.

ACCESSORIES

FCWCP: Cold plasma mounting kit

For models with control board installed

FCWI_2V, 3V, VL it is mandatory to select among the user interfaces designed for the FCWI series (TLW4 o PFW4)

PFW4: This accessory is essential for fan coil operation (as an alternative to TLW4). The PFW4 wired panel is supplied separately from the fan coil. It is used to set the main device operating parameters, and is essential for setting the Modbus address of the unit (handy only if you want to command the unit via the RS-485 port).

TLW4: Mandatory accessory. Infrared remote control with liquid crystal display for controlling all unit functions. The remote control is delivered separately from the fan coil; with a single remote control it is possible to control more than one fan coil. The remote control is equipped with a support that allows you to hang it on the wall, from which it can be operated without having to be removed.



VMF-485LINK: Expansion to interface the unit with the VMF communication protocol, making it possible to manage it from the VMF-E5 or VMF-E6 supervisors.

ACCESSORIES COMPATIBILITY

Control panels and dedicated accessories

Accessory	FCWI23VL	FCWI33VL	FCWI43VL	FCWI53VL	FCWI232V	FCWI233V
PFW4 (1)	•	•	•	•	•	•
TLW4 (1)	•	•	•	•	•	•

Accessory	FCWI332V	FCWI333V	FCWI432V	FCWI433V	FCWI532V	FCWI533V
PFW4 (1)	•	•	•	•	•	•
TLW4 (1)	•	•	•	•	•	•

(1) Mandatory accessory.

Plasmacluster mounting kit

Accessory	FCWI23VL	FCWI33VL	FCWI43VL	FCWI53VL	FCWI232V	FCWI233V	FCWI332V	FCWI333V	FCWI432V	FCWI433V	FCWI532V	FCWI533V
FCWCP	•	•	•	•	•	•	•	•	•	•	•	•

VMF system

Accessory	FCWI23VL	FCWI33VL	FCWI43VL	FCWI53VL	FCWI232V	FCWI233V
VMF-485LINK	•	•	•	•	•	•

Accessory	FCWI332V	FCWI333V	FCWI432V	FCWI433V	FCWI532V	FCWI533V
VMF-485LINK	•	•	•	•	•	•

The VMF-485LINK accessory is not compatible with radiant floor heating systems.

PERFORMANCE SPECIFICATIONS

2-pipe

	FCWI23VL			FCWI33VL			FCWI43VL			FCWI53VL			FCWI232V			FCWI233V		
	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H

Heating performance 70 °C / 60 °C (1)

Heating capacity	kW	3,12	4,52	4,75	3,46	5,33	5,74	6,36	9,24	9,86	8,31	13,80	15,24	2,57	3,73	4,46	2,57	3,73	4,46
Water flow rate system side	l/h	274	397	417	304	468	504	558	811	865	728	1147	1335	226	327	392	226	327	392
Pressure drop system side	kPa	8	16	17	9	19	22	16	30	34	10	23	30	11	21	29	11	21	29

Heating performance 45 °C / 40 °C (2)

Heating capacity	kW	1,55	2,25	2,37	1,71	2,65	2,86	3,17	4,60	4,91	4,16	6,51	7,58	1,28	1,85	2,21	1,28	1,85	2,21
Water flow rate system side	l/h	269	390	411	298	461	496	549	798	851	722	1131	1316	222	323	385	222	323	385
Pressure drop system side	kPa	8	16	17	9	19	21	15	30	32	10	22	29	11	21	29	11	21	29

Cooling performance 7 °C / 12 °C

Cooling capacity	kW	1,50	2,15	2,27	1,65	2,54	2,74	3,03	4,41	4,70	4,46	6,51	7,43	1,20	1,79	2,10	1,20	1,79	2,10
Sensible cooling capacity	kW	1,27	1,82	1,92	1,40	2,15	2,24	2,38	3,43	3,61	3,34	5,06	5,78	1,02	1,51	1,78	1,02	1,51	1,78
Water flow rate system side	l/h	258	369	391	284	437	471	521	758	809	765	1117	1275	207	308	362	207	308	362
Pressure drop system side	kPa	8	15	16	8	18	20	17	27	30	12	22	28	10	19	26	10	19	26

Fan

Type	type	Tangential Inverter																	
Fan motor	type	Inverter																	
Number	no.	1			1			1			1			1			1		
Air flow rate	m³/h	250	400	440	290	450	490	450	690	760	590	960	1210	200	300	400	200	300	400
Input power	W	9	17	19	9	17	20	13	27	34	17	35	58	9	17	19	9	17	19

Fan coil sound data (3)

Sound power level	dB(A)	37,0	50,0	52,0	38,0	50,0	52,0	41,0	53,0	55,0	44,0	54,0	60,0	37,0	50,0	52,0	37,0	50,0	52,0
Sound pressure level	dB(A)	29,0	42,0	44,0	30,0	42,0	44,0	33,0	45,0	47,0	36,0	46,0	52,0	29,0	42,0	44,0	29,0	42,0	44,0

Diameter hydraulic fittings

Main heat exchanger	Ø	1/2"			1/2"			1/2"			3/4"			1/2"			1/2"		
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Power supply

Power supply	230V~50Hz																		
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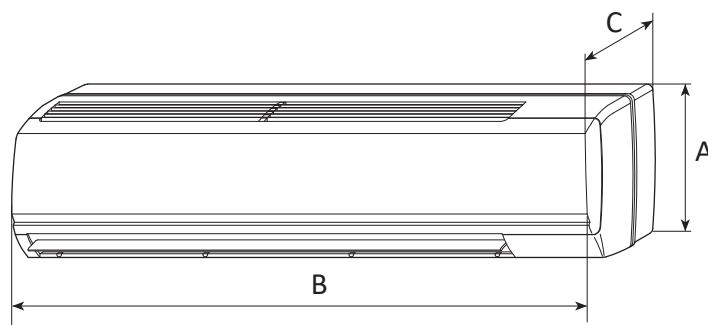
				FCWI332V			FCWI333V			FCWI432V			FCWI433V			FCWI532V			FCWI533V		
				1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
				L	M	H	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H
Heating performance 70 °C / 60 °C (1)																					
Heating capacity	kW	3,01	5,15	5,51	3,01	5,15	5,51	6,21	8,53	9,18	6,21	8,53	9,18	8,15	11,82	13,96	8,15	11,82	13,96		
Water flow rate system side	l/h	265	452	484	265	452	484	545	749	805	545	749	508	714	1036	1224	714	1036	1224		
Pressure drop system side	kPa	11	30	34	11	30	34	21	36	41	21	36	41	10	21	28	10	21	28		
Heating performance 45 °C / 40 °C (2)																					
Heating capacity	kW	1,50	2,56	2,74	1,50	2,56	2,74	3,09	4,24	4,56	3,09	4,24	4,56	4,05	5,91	6,98	4,05	5,91	6,98		
Water flow rate system side	l/h	260	445	476	260	445	477	536	736	793	536	736	793	704	1027	1213	704	1027	1213		
Pressure drop system side	kPa	11	30	34	11	30	34	20	35	40	20	35	40	11	22	30	11	22	30		
Cooling performance 7 °C / 12 °C																					
Cooling capacity	kW	1,44	2,46	2,63	1,44	2,46	2,63	2,96	4,07	4,38	2,96	4,07	4,38	4,05	6,01	6,98	4,05	6,01	6,98		
Sensible cooling capacity	kW	1,22	2,08	2,15	1,22	2,08	2,15	2,32	3,16	3,36	2,32	3,16	3,36	3,04	4,67	5,44	3,04	4,67	5,44		
Water flow rate system side	l/h	248	423	453	248	426	453	509	699	753	509	699	753	695	1032	1198	695	1032	1198		
Pressure drop system side	kPa	11	28	32	11	28	32	18	32	37	18	32	37	11	23	30	11	23	30		
Fan																					
Type	type	Tangential																			
Fan motor	type	Inverter																			
Number	no.	1			1			1			1			1			1				
Air flow rate	m³/h	250	430	460	250	430	460	430	620	690	430	620	690	530	870	1110	530	870	1110		
Input power	W	9	17	20	9	17	20	13	27	34	13	27	34	17	35	58	17	35	58		
Fan coil sound data (3)																					
Sound power level	dB(A)	38,0	50,0	52,0	38,0	50,0	52,0	41,0	53,0	55,0	41,0	53,0	55,0	44,0	54,0	60,0	44,0	54,0	60,0		
Sound pressure level	dB(A)	30,0	42,0	44,0	30,0	42,0	44,0	33,0	45,0	47,0	33,0	45,0	47,0	36,0	46,0	52,0	36,0	46,0	52,0		
Diametre hydraulic fittings																					
Main heat exchanger	Ø	1/2"			1/2"			1/2"			1/2"			3/4"			3/4"				
Power supply																					
Power supply	230V~50Hz																				

(1) Room air temperature 20 °C d.b.; Water (in/out) 70 °C/60 °C

(2) Room air temperature 20 °C d.b.; Water (in/out) 45 °C/40 °C; EUROVENT

(3) Aermec determines the sound power value on the basis of measurements taken in accordance with standard UNI EN 16583:15, respecting the Eurovent certification.

DIMENSIONS



		FCWI23VL	FCWI33VL	FCWI43VL	FCWI53VL	FCWI232V	FCWI233V
Dimensions and weights							
A	mm	298	305	360	365	298	298
B	mm	880	990	1170	1450	880	880
C	mm	205	210	220	230	205	205
Empty weight	kg	9	10	19	28	9	9

		FCWI332V	FCWI333V	FCWI432V	FCWI433V	FCWI532V	FCWI533V
Dimensions and weights							
A	mm	305	305	360	360	365	365
B	mm	990	990	1170	1170	1450	1450
C	mm	210	210	220	220	230	230
Empty weight	kg	10	10	19	19	28	28

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VENTILCASSAFORMA

Template for recessed installation of fancoils in the wall



- Ideal for residential or office solutions



DESCRIPTION

Ventilcassaforma has been designed to respond to the needs to rationalise spaces to suit modern interior architecture. Ventilcassaforma is a galvanised template that makes it possible to make a space to house fan coils in the wall.

The template will make masonry work easier during the construction of a niche where the fan coil will be installed. When the work is finished, the fan coil will be completely hidden from view.

VERSIONS

CHU-L: For fan coils in the Omnia ULI_P series.

CHF: For fan coils in the FCZ P, FCZI P series

FEATURES

Ventilcassaforma is made up of the following parts to be assembled:

- Recess box;
- Closure panel;
- Outer frame with deflector;
- Cover bases, cross-members, covers.

All parts are made of galvanised steel and treated with epoxy-polyester resin-based thermo-hardening base paint in grey with rough glazed finish in order to hold the paint. The final colour can be chosen by the client.

Socket box embedded in the wall

Made of galvanised steel, this is the box housing the fan coil. The box is recessed in the wall during building work making the construction of a niche where the fan coils will be installed much easier.

Holes for fitting the fan coil and preparing an electric plant with a socket and GEWISS fuse holder are already present on the back panel.

The box can accommodate the hydraulic system pipes and condensation drain pipes thanks to the presence of several easily-removable elements on the sides and base.

Closure panel

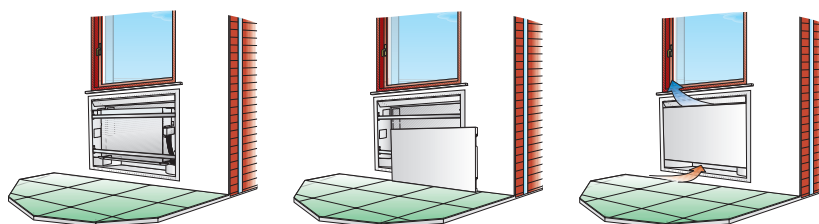
Made of steel pre-treated with base paint and no slots present. Easily removable for servicing and cleaning the air filter.

Outside frame

The perimeter of the box has an outer frame made of pre-treated steel making it possible to cover the perimeter part of the wall and hide any imperfections that overtime show possible crumbling on the edge of the plaster work.

Deflector

Manual, with which the flow of air can be directed into the room. The deflector is incorporated in the frame.



ACCESSORIES COMPATIBILITY

FCZ-H

Ver	200	300	400	500	600	900	950
HP	CHF22	CHF32	CHF42	CHF42	CHF62	CHF62	CHF62

FCZI-H

Ver	200	250	300	350	400	450	500	550	700	750	900	950
HP	CHF22	CHF22	CHF32	CHF32	CHF42	CHF42	CHF42	CHF42	CHF62	CHF62	CHF62	CHF62

FCZ-P

Ver	100	101	102	150	200	201	202	250	300	301	302	350	400	401	402	450	500	501	502	550
P, PR	CHF17	CHF17	CHF17	CHF17	CHF22	CHF22	CHF22	CHF22	CHF32	CHF32	CHF32	CHF32	CHF42	CHF42	CHF42	CHF42	CHF42	CHF42	CHF42	CHF42
PO, POR	-	-	-	-	CHF22	CHF22	CHF22	CHF22	CHF32	CHF32	CHF32	CHF32	CHF42	CHF42	CHF42	CHF42	CHF42	CHF42	CHF42	CHF42
PPC	CHF17	-	-	CHF17	CHF22	-	-	CHF22	CHF32	-	-	CHF32	CHF42	-	-	CHF42	CHF42	-	-	CHF42

The accessory cannot be fitted on the configurations indicated with -

Ver	600	601	602	650	700	701	702	750	800	801	802	850	900	901	950	1000	1001
P, PR	CHF62	CHF62	CHF62	CHF62	CHF62	CHF62	CHF62	CHF62	CHF62	CHF62	CHF62	CHF62	CHF62	CHF62	CHF62	CHF62	CHF62
PO, POR	CHF62	CHF62	CHF62	CHF62	CHF62	CHF62	CHF62	CHF62	-	-	-	-	CHF62	CHF62	CHF62	-	-
PPC	CHF62	-	-	CHF62	CHF62	-	-	CHF62	CHF62	-	-	CHF62	CHF62	-	CHF62	CHF62	-

The accessory cannot be fitted on the configurations indicated with -

FCZI-P

Ver	200	201	202	250	300	301	302	350	400	401	402	450	500	501	502	550	700	701	702	750	900	901	950
P, PR	CHF22	CHF22	CHF22	CHF22	CHF32	CHF32	CHF32	CHF32	CHF42	CHF42	CHF42	CHF42	CHF42	CHF42	CHF42	CHF42	CHF62	CHF62	CHF62	CHF62	CHF62	CHF62	CHF62

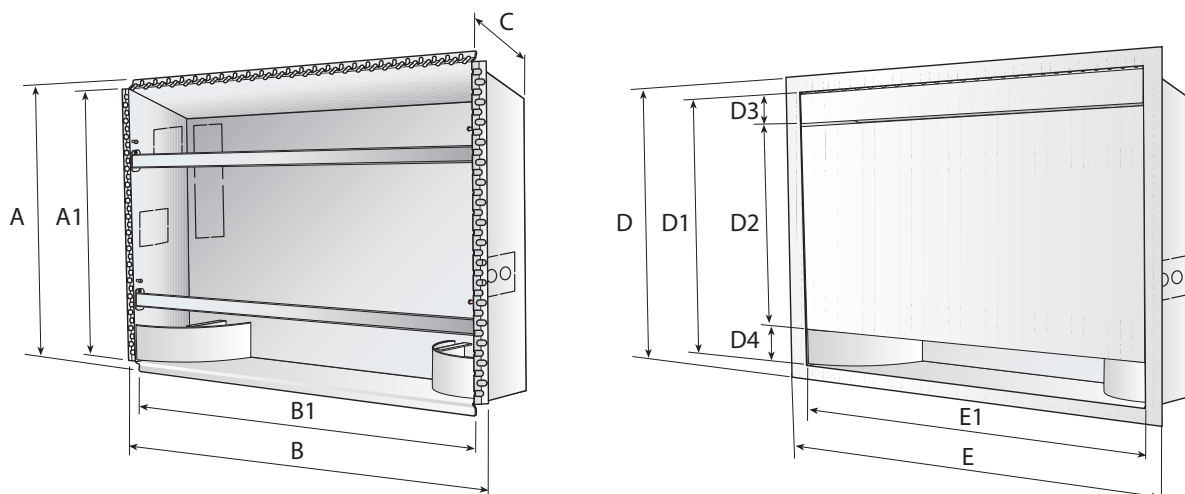
UL-P

Ver	11	16	26	36
P	CHU12L	CHU17L	CHU27L	CHU37L

ULI-P

Accessory	ULI16P	ULI26P	ULI36P
CHU17L	.		
CHU27L		.	
CHU37L			.

DIMENSIONS



		CHU12L	CHU17L	CHU27L	CHU37L
Dimensions jig					
A	mm	691	691	691	691
A1	mm	648	648	648	648
B	mm	692	802	1032	1252
B1	mm	644	754	984	1204
C	mm	186	186	186	186
D	mm	724	724	724	724
D1	mm	634	634	634	634
D2	mm	494	494	494	494
D3	mm	70	70	70	70
D4	mm	-	-	-	-
E	mm	713	823	1053	1273
E1	mm	633	743	973	1193

		CHF17	CHF22	CHF32	CHF42	CHF62
Dimensions jig						
A	mm	728	728	728	728	833
A1	mm	684	684	684	684	789
B	mm	732	842	1073	1293	1414
B1	mm	684	794	1025	1245	1366
C	mm	240	240	240	240	240
D	mm	760	760	760	760	865
D1	mm	680	680	680	680	785
D2	mm	493	493	493	493	598
D3	mm	93	93	93	93	93
D4	mm	94	94	94	94	94
E	mm	753	863	1094	1314	1435
E1	mm	673	783	1014	1234	1355

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Control panels

Range of control panels for fan coils

- Wide range of panels for the simple, complete control of all the fan coil functions.

ACCESSORIES

AERCAB: 100 meter skein of shielded cable (4-pole wire + shield) for connection with RS485 serial port and CAN.

T-TOUCH AND T-TOUCH-I



Characteristics and equipment supplied as standard

- Installation on the fan coil.
- Air and water probes supplied as standard.
- RS485 serial port for connection with the VMF network (MASTER).
- Connection with VMF-E4X user interface.
- Control of the 3 speeds of the asynchronous motors.
- 0-10 V and/or PWM output for brushless motors.
- Two triac outputs for control of valves and/or accessories.
- MS input (micro switch).
- Inverter fault input.
- Visualisation of the speeds and the temperature set-point.

Compatibility with the hydronic terminals

Thermostat	Unit	Range
T-TOUCH	FCZ	AS - U - UA - DS
T-TOUCH-I	FCZI	AS - U

Compatibility with 2 and 4 pipes systems

2-pipe systems	Air temperature probe	Water temperature probe
without accessories		
with 2-way valve		
with 3-way valve		
with Cold Plasma purifier		
with 2-way valve and Cold Plasma purifier		
with 3-way valve and Cold Plasma purifier	supplied as standard	supplied as standard
with heater		
with 2-way valve and heater		
with 3-way valve and heater		
cooling only, with heater for heating		
cooling only, with heater for heating and 3-way valve		
4-pipe systems		
with 2-way valve	supplied as standard	supplied as standard
with 3-way valve		

AER503IR



Characteristics and equipment supplied as standard

- Flush installation (503-502 module box, or plasterboard boxes).
- Management of fan coils with asynchronous and brushless motor.
- Automatic / manual season changeover.
- Control of up to 2 On/Off valves.
- Control of 1 modulating valve 0-10.
- Temperature and ventilation control.
- Internal air probe.
- Compatibility with VMF-IR.
- Overall dimensions (mm): H=86 - W=125 - D=46.

Compatibility with the hydronic terminals

Compatible with all ON/OFF fancoil and INVERTER fancoil, without on board controls.

Compatibility with 2 and 4 pipes systems

2-pipe systems	Air temperature probe	Water temperature probe
without accessories		
with 2-way valve		
with 3-way valve		
with Cold Plasma purifier		
with 2-way valve and Cold Plasma purifier		
with 3-way valve and Cold Plasma purifier		
with heater		
with 2-way valve and heater	SAS	SW5
with 3-way valve and heater		
cooling only, with heater for heating		
cooling only, with heater for heating and 3-way valve		
with 2-way valve and radiant panel (heating)		
radiant panel only (heating)		
4-pipe systems		
with 2-way valve	SAS	SW5
with 3-way valve		

TX



Characteristics and equipment supplied as standard

- Wall-mount installation.
- Management of fan coils with asynchronous and brushless motor.
- Automatic / manual season changeover.
- Control of up to 2 On/Off valves.
- Temperature and ventilation control (3 speeds).
- Internal air probe
- Management of fins and external contact.
- Overall dimensions (mm): H=148 - W=70 - D=27.5.

Compatibility with the hydronic terminals

Compatible with all ON/OFF fancoil and INVERTER fancoil, without on board controls.

Compatibility with 2 and 4 pipes systems

2-pipe systems	Air temperature probe	Water temperature probe
without accessories		
with 2-way valve		
with 3-way valve		
with Cold Plasma purifier		
with 2-way valve and Cold Plasma purifier		
with 3-way valve and Cold Plasma purifier		
with heater		
with 2-way valve and heater	SAS	SW3/ SW5
with 3-way valve and heater		
cooling only, with heater for heating		
cooling only, with heater for heating and 3-way valve		
with 2-way valve and radiant panel (heating)		
radiant panel only (heating)		
with twin delivery (Dualjet)		
4-pipe systems		
with 2-way valve	SAS	SW3/ SW5
with 3-way valve		

PXAI



Characteristics and equipment supplied as standard

- Installation on the fan coil.
- Automatic / manual season changeover.
- Control of up to 2 On/Off valves.
- Temperature and ventilation control (3 speeds).
- Internal water probe (2.5m) and air probe (2.3m).
- Management of fins and external contact.
- Overall dimensions (mm): H=148 - W=70 - D=27.5.

Compatibility with the hydronic terminals

Compatible with all fancoil of the series FCZ-P, FCZI-P.

Compatibility with 2 and 4 pipes systems

2-pipe systems	Air temperature probe	Water temperature probe
without accessories		
with 2-way valve		
with 3-way valve		
with Cold Plasma purifier		
with 2-way valve and Cold Plasma purifier		
with 3-way valve and Cold Plasma purifier	supplied as standard	supplied as standard
with heater		
with 2-way valve and heater		
with 3-way valve and heater		
cooling only, with heater for heating		
cooling only, with heater for heating and 3-way valve		
4-pipe systems		
with 2-way valve	supplied as standard	supplied as standard
with 3-way valve		

TXB/TXBI - TXBIS**TXB-TXBI****TXBIS****Characteristics and equipment supplied as standard**

- Installation on the fan coil.
- Automatic / manual season changeover.
- Control of up to 2 On/Off valves.
- Temperature and ventilation control (3 speeds).
- Internal air probe.
- Water probe (supplied) for controlling the minimum or maximum depending on the system, with the possibility to fit an external air probe (SA5).

Compatibility with the hydronic terminals**TXB**

Compatible with all fancoil of the series FCZ.

TXBI

Compatible with all fancoil of the series FCZI.

TXBIS

Compatible with all fancoil of the series ULSI_B and ULSI_BR.

■ For ULSI_BR units add the mandatory EC-TXBI accessory.

Compatibility with 2 and 4 pipes systems

2-pipe systems	Air temperature probe	Water temperature probe
without accessories		
with 2-way valve		
with 3-way valve		
with Cold Plasma purifier		
with 2-way valve and Cold Plasma purifier		
with 3-way valve and Cold Plasma purifier		
with heater		
with 2-way valve and heater	supplied as standard	supplied as standard
with 3-way valve and heater		
cooling only, with heater for heating		
cooling only, with heater for heating and 3-way valve		
with 2-way valve and radiant panel (heating)		
radiant panel only (heating)		
with twin delivery (Dualjet)		
4-pipe systems		
with 2-way valve	supplied as standard	supplied as standard
with 3-way valve		

WMT16 - 16V**Characteristics and equipment supplied as standard**

- Wall-mount installation.
- Manual season changeover.
- Temperature and ventilation control (3 speeds).
- Thermostat-controlled ventilation WMT16 - Continuous WMT16CV
- Internal air probe.
- Overall dimensions (mm): H=130 - L=85 - P=40.

Compatibility with the hydronic terminals

Compatible with all ON/OFF fancoil without on board controls.

Compatibility with 2 pipe systems

2-pipe systems	Air temperature probe	Water temperature probe
without accessories		
with 2-way valve	internal	-
4-pipe systems		
with 2-way valve	internal	-

WMT10**Characteristics and equipment supplied as standard**

- Wall-mount installation.
- Manual season changeover.
- Control of up to 2 On/Off valves.
- Temperature and ventilation control (3 speeds).
- Internal air probe.
- Overall dimensions (mm): H=75 - W=127 - D=25.

Compatibility with the hydronic terminals

Compatible with all ON/OFF fancoil without on board controls.

Compatibility with 2 and 4 pipes systems

2-pipe systems	Air temperature probe	Water temperature probe
without accessories		
with 2-way valve		
with heater	internal	-
with 2-way valve and heater		
cooling only, with heater for heating		
4-pipe systems		
with 2-way valve	internal	-

FMT10**Characteristics and equipment supplied as standard**

- Wall-mount installation.
- Automatic / manual season changeover.
- Control of up to 2 On/Off valves, or 1 valve and 1 heater.
- Temperature and ventilation control (3 speeds).
- Air probe (supplied) to be installed on the fan coil intake.
- Overall dimensions (mm): H=80 - W=118 - D=40.

Compatibility with the hydronic terminals

Compatible with all ON/OFF fancoil without on board controls.

Compatibility with 2 and 4 pipes systems

2-pipe systems	Air temperature probe	Water temperature probe
without accessories		
with 2-way valve		
with heater	supplied as standard	-
with 2-way valve and heater		
cooling only, with heater for heating		
4-pipe systems		
with 2-way valve	supplied as standard	-

DSKT/DSKTI - DSKTS



DSKT-DSKTI

DSKTS

Characteristics and equipment supplied as standard

- Installation on the fan coil.
- Air and water probes supplied as standard.
- RS485 serial port for connection with the VMF network (MASTER).
- Control of the 3 speeds of the asynchronous motors.
- 0-10 V and/or PWM output for brushless motors.
- MS input (micro switch).
- Inverter fault input.
- Visualisation of the speeds and the temperature set-point.
- Air purification device management.

Compatibility with the hydronic terminals

DSKT

Compatible with all fancoil of the series FCZ-AS.

DSKTI

Compatible with all fancoil of the series FCZI-AS.

DSKTS

Compatible with all fancoil of the series ULSI_B and ULSI_BR.

■ For ULSI_BR units add the mandatory EC-DSKT accessory.

Compatibility with 2 and 4 pipes systems

2-pipe systems	Air temperature probe	Water temperature probe
without accessories		
with 2-way valve		
with 3-way valve		
with Cold Plasma purifier		
with 2-way valve and Cold Plasma purifier		
with 3-way valve and Cold Plasma purifier	supplied as standard	supplied as standard
with heater		
with 2-way valve and heater		
with 3-way valve and heater		
cooling only, with heater for heating		
cooling only, with heater for heating and 3-way valve		
4-pipe systems		
with 2-way valve		
with 3-way valve	supplied as standard	supplied as standard

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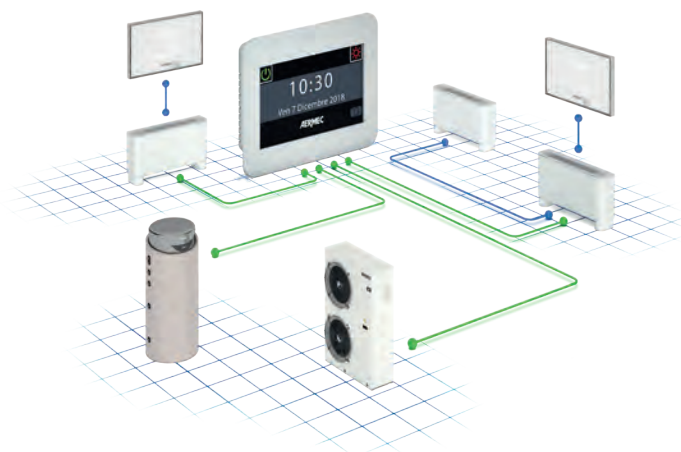
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VMF

Multi Flow Variable Systems

- **Components for plant management**
- **Air conditioning**
- **Heating**
- **Hot domestic water (HDW)**



DESCRIPTION

Hydronic system management and control unit for air conditioning, heating and domestic hot water production.

The VMF system ensures the complete control of every single component of a hydronic system, both local and centralised, through communication between the various system components, managing the performance without neglecting the end user's request for comfort at any time, but reaching it as efficiently as possible, with consequent energy savings.

Summing up the advantages of a such an innovative control with the flexibility of a hydronic system, you achieve a more effective and efficient alternative to variable refrigerant volume (VRF) systems.

The VMF system can manage different areas, each of which has one of the following types of terminals:

- Fancoil;
- Radiant only (heating only);
- Fancoil + Radiant;
- MZC Zone;
- MZC Zone + Radiant.

FEATURES

The VMF system is extremely flexible, to the extent that it offers various control and management steps, also expandable at different times:

1. Control of a single zone;
2. Control of a Master/Slave zone (one MASTER fancoil and up to 5 SLAVE fancoils);
3. Control of a network consisting of several independent zones (one MASTER fancoil and up to 5 SLAVE fancoils for each zone, or another of the types of terminals provided);
4. Control of several zones, plus heat pump management (if compatible with the VMF system);
5. Control of several zones, of heat pumps and management of the domestic hot water;
6. Control of several zones, heat pumps, domestic hot water production and additional pumps (up to a maximum of 12 using 3 additional VMF-CRP modules);
7. Control of several zones, heat pumps, domestic hot water production, additional pumps and management of up to 3 heat recovery units (with the possibility to manage up to 3 VMF-VOC probes) and/or a boiler;

CONTROL PANELS

The VMF system can pilot and manage a different number of areas, depending on the panel used:

- **VMF-E6/VMF-E5:** maximum 64 zones (so a maximum of 64 Master Fancoil, each of which will pilot 5 Slave, for a total of 384 Fancoil);
- **VMF-RCC:** maximum 10 zones (then a maximum of 10 Master Fancoil, each of which will pilot 5 Slave, for a total of 50 Fancoil).

In addition to the centralised control provided by the VMF-E6/VMF-E5/VMF-RCC panel, the MASTER system terminal must be equipped with a local control interface; this interface can be mounted on board the terminal itself or on a wall panel.

Via panel VMF-E6/VMF-E5/VMF-RCC it is possible to control several functions:

- Identify the various zones by giving each of them a name that characterises it;
- Control and set the ON-OFF function and the temperature setting of each zone;
- Set and manage the heat pump temperature;
- Schedule time slots.

Simple installation of the fancoil network thanks to the SELF-DETECTION function of the MASTER fancoils.

SYSTEM COMPONENTS

AerSuite

The AerSuite application is used to remotely control the DI24 user interface, with VMF-E19/VMF-E19I thermostats, using Smart Devices with iOS and Android operating systems.

This is an application for Smartphones and Tablets with which the user can access and control the system operation remotely.

For more information about the use of the application and the available functions, refer to the respective documentation on the website.



Command interfaces

DI24: Flush-mounted interface (503 box) with 2.4" touch screen display to be combined with VMF-E19, VMF-E19I accessories. It allows you to regulate and monitor the temperature inside rooms precisely and on time; in addition to accessing and interacting with your system's operating information, parameters and alarms, it allows you to set time slots. Thanks to its Wi-Fi connection, DI24 in combination with the AerSuite APP (available for Android and iOS) can also be remotely controlled. All programming and most functions are done in a simple and intuitive way using the APP. To allow for customization of the interface so that it seamlessly integrates with the style of any home, DI24 is compatible with switch plates from major brands available on the market. For more information, please refer to our documentation. However, a switch plate with its graphite gray support, DI24CP, is also available as a separate accessory in our catalog.

VMF-E2D: Machine user interface to be combined with VMF-E19 accessory, dedicated to the DUALJET range. It has 2 selector switches, one for temperature and the other for speed control.

VMF-E2H: User interface on the machine, to be combined with the VMF-E19 accessory, dedicated to the HL series. It has 2 selector switches, one for temperature and the other for speed control.

VMF-E2S: User interface on the fan coil, with two selectors - one for temperature and the other for speed control. For operation, the installation of either the VMF-E19 or VMF-E19I accessory is required.

VMF-E2Z: User interface on the fan coil, with two selectors, one for temperature and the other for speed control; to be combined with accessories VMF-E19 and VMF-E19I.

VMF-E3: Wall mounted user interface, to be combined with accessories VMF-E19, VMF-E19I, with grids GLF_N/M and GLL_N, can be controlled with VMF-IR control.

VMF-E4DX: A wall-mounted user interface to be combined with VMF-E19, VMF-E19I, VMF-E24 ed VMF-E24I accessories. Featuring an innovative, extremely slim and cost-effective design, it allows running functions via a capacitive touchscreen keyboard with LCD display. You can choose to adjust the environment temperature with a panel-mounted sensor probe (standard), or with the VMF-E19/E19I probe, or through mediated reading. It also enables the activation of an air purifier (Cold Plasma/ UV lamp) and a heating element. Light grey front panel PANTONE 425C (METAL).

VMF-E4X: A wall-mounted user interface to be combined with VMF-E19, VMF-E19I, VMF-E24 ed VMF-E24I accessories. Featuring an innovative, extremely slim and cost-effective design, it allows running functions via a capacitive touchscreen keyboard with LCD display. You can choose to adjust the environment temperature with a panel-mounted sensor probe (standard), or with the VMF-E19/E19I probe, or through mediated reading. It also enables the activation of an air purifier (Cold Plasma/ UV lamp) and a heating element. Light grey front panel PANTONE COOL GRAY 1C.

VMF-E5: Black recessed panel with backlit graphic LCD display and capacitive keyboard, it allows the centralised command/control of a complete hydronic system consisting of Fan coils: up to 64 fan coil zones consisting of 1 master + up to 5 slaves; Chiller/heat pump (accessory required for RS 485 interface), pumps: up to 12 configurable zone pumps; boiler: boiler hook-up management for hot water production; heat recovery units: up to 3 hook-ups per programmable recovery units based on time periods and/or by

measuring air quality with the VMF-VOC accessory; domestic water module: complete management of the domestic hot water production through the control of: diverter valve/pump, integrated heating element, storage tank temperature sensor, anti-legionella circuit system. The panel is available in both white (VMF-E5B) and black (VMF-E5N).

VMF-E6: White flush-mounting panel with 4.3 inch colour touchscreen. For the centralised command/control of a complete hydronic/aeraulic system consisting of: fan coils (up to 64 fan coil zones formed of 1 master + max. 5 slaves), heat pumps (up to 4), MZC accessories (up to 5) for the management of radiant panels (using a suitable number of VMF-REB accessories, up to 64 radiant panels associated with the fan coil zones and up to 32 radiant panels associated with the zones served by MZC), the complete management of DHW production, control of the RAS heater and/or the boiler, management of digital I/Os, control of heat recovery units and VOC probes (up to 4).

VMF-IR: User interface compatible with the AER503IR, VMF-E3 thermostat and with all the grids of cassettes equipped with the infrared receiver compatible with the VMF system.

VMF-RCC: Flush-mounting panel for the centralised command/control of a complete hydronic system consisting of: fan coils (up to 10 fan coil zones formed of 1 master + max. 5 slaves), heat pumps (if you want to manage up to 4 outdoor units, the MULTICONTROL accessory must be provided), MZC accessories (up to 3) for the management of radiant panels using a suitable number of VMF-REB 1/VMF-REB 2/VMF-REB 3 accessories, (up to 28 zones total), the complete management of DHW production, control of the RAS heater and/or the boiler, management of digital I/O, control of heat recovery units and VOC probes (up to 3).

VMF-VOC: Air quality detection accessory.

VMHI: The VMHI panel can be used as a user interface for VMF-E19/E19I thermostats, GLFxN/M or GLLxN grids, or as an interface for the MZC system. What determines the function to be performed by the user interface is determined by its correct parametrisation and by following the electrical connections between interface and thermostat or interface and plenum.

Thermostats

VMF-E19: Thermostat, accessory to be secured to the side of the fan coil, fitted as standard with an air probe and a water probe, it controls systems with 2 pipes, 4 pipes, 2 pipes + Cold Plasma, 2 pipes + UV lamps, 2 pipes + Heating element. Equipped with an external contact to be used as a remote ON-OFF at low voltage. By means of 2-wire serial communication, it allows for the creation of a single fan coil area (1 master + maximum 5 slaves). Compared to the previous model, thanks to a different dip switch configuration, it allows implementing new features: 1. In systems with two pipes and a heating element, the latter can be activated as a complete replacement, allowing you to warm the environment exclusively with this accessory. 2. Dualjet features are available in standard software and can be set via dip switch. 3. Economy contact/presence sensor. 4. Additional water sensor for overall control in 4-pipe systems (with VMF-SW1 accessory). 5. Serial RS485, ModBus RTU protocol, for centralised control. 6. Possibility of inserting expansion boards for future developments. The VMF-E19 accessory must be therefore used in masters in the presence of multiple zones, or for communication with the chiller/heat pump. 7. Compatibility with the VMF-IO accessory. Compatibility with VMF-LON expansion board. The thermostat is protected by a fuse.

VMF-E19I: Thermostat to be secured to the side of the fan coil, fitted as standard with an air probe and a water probe, it controls systems with 2 pipes, 4 pipes, 2 pipes + Cold Plasma, 2 pipes + UV lamps, 2 pipes + Heating element. Equipped with an external contact to be used as a remote ON-OFF at low voltage. By means of 2-wire serial communication, this thermostat allows for the creation of a single fan coil area (1 master + maximum 5 slaves). Compared to the previous model, thanks to a different dip switch configuration, it allows implementing new features: In systems with two pipes and a heating element - the latter can be activated as a complete replacement - allowing you to warm the environment exclusively with this accessory - Dualjet features are available in standard software and can be set via dip switch - Economy contact/presence sensor - Additional water sensor for overall control in 4-pipe systems (with VMF-SW1 accessory) - Serial RS485, ModBus RTU protocol, for centralised control - Possibility of inserting expansion boards for future developments. The VMF-E19 accessory must be therefore used in masters in the presence of multiple zones, or for communication with the chiller/heat pump - Compatibility with the VMF-IO accessory - Compatibility with VMF-LON expansion board. The thermostat is protected by a fuse.

VMF-E19Y: Thermostat to be secured to the side of the fan coil, fitted as standard with an air probe and a water probe, it controls systems with 2 pipes, 4 pipes, 2 pipes + Cold Plasma, 2 pipes + UV lamps, 2 pipes + Heating

element. Equipped with an external contact to be used as a remote ON-OFF at low voltage. By means of 2-wire serial communication, this thermostat allows for the creation of a single fan coil area (1 master + maximum 5 slaves). Compared to the previous model, thanks to a different dip switch configuration, it allows implementing new features: 1. In systems with two pipes and a heating element - the latter can be activated as a complete replacement - allowing you to warm the environment exclusively with this accessory. 2. Economy contact/presence sensor. 3. Additional water sensor for overall control in 4-pipe systems (with VMF-SW1 accessory). 4. Serial RS485, ModBus RTU protocol, for centralised control. 5. Possibility of inserting expansion boards for future developments. The VMF-E19Y accessory must be therefore used in masters in the presence of multiple zones, or for communication with the chiller/heat pump. 6. Compatibility with the VMF-IO accessory - Compatibility with VMF-LON expansion board. The thermostat is protected by a fuse.

VMF-FMD: The VMF-FMD panel is a flush-mounted thermostat that, when used in stand-alone mode or within a centralised supervisory system (BMS), can manage plant requirements where an actuator (a heating furniture valve, radiant system head, zone valve, zone circulator) is to be controlled as a function of room temperature.

VMF-IO: Manage the unit exclusively from a centralized VMF control panel without area control panel.

VMF-LON: Expansion allowing the thermostat to interface with BMS systems that use the LON protocol.

VMF-YCC: Electric on/off completion unit for the VMF-E19Y accessory (mandatory for the unit with options P and X).

VMF-YCCH: Electric on/off completion unit for the VMF-E19Y accessory (mandatory for the unit with option H).

VMF-YCCK: Electric on/off completion unit for the VMF-E19Y accessory, mandatory for FCY units with GKY accessory.

VMF-YICC: Electric inverter completion unit for the VMF-E19Y accessory (mandatory for the unit with options P and X).

VMF-YICCH: Electric inverter completion unit for the VMF-E19Y accessory (mandatory for the unit with option H).

VMF-YICCK: Electric inverter completion unit for the VMF-E19Y accessory, mandatory for FCYI units with GKY accessory.

Intake grids and distribution of the air, compulsory accessory

GLF10M: Recovery and air supply grille in plastic, RAL 9010 colour, measuring 600x600 mm adapts perfectly to standard false ceilings without overlapping parts. It is equipped with an infrared receiver with an emergency operation button, a thermostat card which also requires the installation of the VMF-E4 panel or the VMF-IR remote control. Intake is in the central part, where the easily removable air filter is housed. Delivery is via the perimeter slits that can be orientated with the remote control. (size 840x840 not available).

GLF10N: Recovery and air supply grille in plastic, RAL 9010 colour, measuring 600x600 mm, adapts perfectly to standard false ceilings without overlapping parts. Fitted with a thermostat board that necessarily requires the installation of the VMF-E4 or VMF-IR panel as well. Intake is in the central part, where the easily removable air filter is housed. Delivery is via the perimeter slits that can be manually orientated. (size 800x800 mm not available).

GLF110M: Recovery and air supply grille in plastic, RAL 9010 colour, measuring 600x600 mm adapts perfectly to standard false ceilings without overlapping parts. It is equipped with an infrared receiver with an emergency operation button, a thermostat card which also requires the installation of the VMF-E4 panel or the VMF-IR remote control. Intake is in the central part, where the easily removable air filter is housed. Delivery is via the perimeter slits that can be orientated with the remote control. (size 840x840 not available).

GLF110N: Recovery and air supply grille in plastic, RAL 9010 colour, measuring 600x600 mm, adapts perfectly to standard false ceilings without overlapping parts. Fitted with a thermostat board that necessarily requires the installation of the VMF-E4 or VMF-IR panel as well. Intake is in the central part, where the easily removable air filter is housed. Delivery is via the perimeter slits that can be manually orientated. (size 800x800 mm not available).

GLL10N: Recovery and air supply grille in plastic, RAL 9010 colour, measuring 600x600 mm, adapts perfectly to standard false ceilings without overlapping parts. Fitted with a thermostat board that necessarily requires the installation of the VMF-E4X or VMF-IR panel as well. Intake is in the central part, where the easily removable air filter is housed. Delivery is via the perimeter slits that can be manually orientated.

GLL20N: Recovery and air supply grille in plastic, RAL 9010 colour, measuring 840x840 mm, adapts perfectly to standard false ceilings without overlapping parts. Fitted with a thermostat board that necessarily requires the installation of the VMF-E4X or VMF-IR panel as well. Intake is in the central part, where the easily removable air filter is housed. Delivery is via the perimeter slits that can be manually orientated.

GLL1100N: Recovery and air supply grille in plastic, RAL 9010 colour, measuring 600x600 mm; adapts perfectly to standard false ceilings without overlapping parts. Fitted with a thermostat board that necessarily requires the installation of the VMF-E4X panel as well, and suitable for use with the RXLE heater. Intake is in the central part, where the easily removable air filter is housed. Delivery is via the perimeter slits that can be manually orientated.

GLL120N: Recovery and air supply grille in plastic, RAL 9010 colour, measuring 840x840 mm, adapts perfectly to standard false ceilings without overlapping parts. Fitted with a thermostat board that necessarily requires the installation of the VMF-E4X or VMF-IR panel as well. Intake is in the central part, where the easily removable air filter is housed. Delivery is via the perimeter slits that can be manually orientated.

Probes

VMF-SW: Water probe (L = 2.5m) used if required in place of the standard unit supplied with the VMF-E19 and VMF-E19I thermostats for mounting it upstream of the valve.

VMF-SW1: Additional water probe (L = 2.5m) to be used if required for 4-pipe systems with the VMF-E19 and VMF-E19I thermostats for maximum control in the cold range

Modules

AERCAB: 100 meter skein of shielded cable (4-pole wire + shield) for connection with RS485 serial port and CAN.

VMF-CRP: Accessory module for controlling boilers, heat recover units and pumps (if associated with VMF-E5 / RCC panels); if associated with the VMF-E6 panel, the VMF-CRP modules will be able to manage heat recovery units, RAS, boiler, sanitary management, I/O control, pumps.

IC-2P: Connector for communication via Mod Bus or VMF -485LINK. Accessory compulsory if combined with VMF-485LINK, or for third party supervision systems.

VMF-485LINK: Expansion to interface the unit with the VMF communication protocol, making it possible to manage it from the VMF-E5 or VMF-E6 supervisors.

VMF-REB: Only available for VMF-E6, manages the heads of the radiant panels (each module can manage up to 8), one pump and up to 3 thermostats through digital input.

VMF-REB 1: Only available for VMF-RCC, manages the heads of 10 radiant panels associated with fancoil and up to 10 thermostats through digital input

VMF-REB 2: Only available for VMF-RCC, manages the heads of 10 radiant panels associated with MZC and up to 10 thermostats through digital input

VMF-REB 3: Only available for VMF-RCC, manages the heads of 8 radiant panels associated with MZC and up to 10 thermostats through digital input

VMF-SIT3: Interface boards that allow connecting thermostats to a fan coil with a high-power motor (for selection, see all the thermostat and fan coil documentation); if a VMF-E19 thermostat is used, this accessory will be replaced by the normal SIT3.

VMF-SIT3V: Relay interface board. Mandatory accessory on units where motor absorption exceeds 0.7 A. The relay interface board is supplied with a 2A fuse to protect the fan coil. If the fan coil absorbs more than 2A and up to 4A, the fuse inside must be replaced with a 4A fuse supplied.

Electrical panels for DHW (Domestic hot water management for other suppliers' storage tanks, not available for VMF-E6)

VMF-ACS3KM: Electrical panel for the complete command/control of a hot water storage tank (3-way control valve, integrated single phase 3kW resistor command, anti-legionella function and temperature sensor)

VMF-ACS3KTN: Quadro elettrico per il comando / controllo completo di un accumulo acqua sanitaria (comando valvola 3 vie, comando resistenza integrativa da 3kW trifase, antilegionella e sonda di temperatura).

VMF-ACS6KTN: Quadro elettrico per il comando / controllo completo di un accumulo acqua sanitaria (comando valvola 3 vie, comando resistenza integrativa da 6kW trifase, antilegionella e sonda di temperatura).

VMF-ACS8KTN: Quadro elettrico per il comando / controllo completo di un accumulo acqua sanitaria (comando valvola 3 vie, comando resistenza integrativa da 8kW trifase, antilegionella e sonda di temperatura).

Heat storage tank with integrated domestic hot water management (no need to be combined with a VMF-ACS accessory)

SAF: Thermal buffer tank kit with instantaneous Domestic Hot Water production. For more information about SAF refer to the dedicated documentation.

Control systems

AERCONNECT: Web server allowing local and remote supervision of the VMF-E6 system (by appropriately configuring the DNS service supplied with the purchase of the accessory) via web pages; allows simultaneous access for up to 8 users

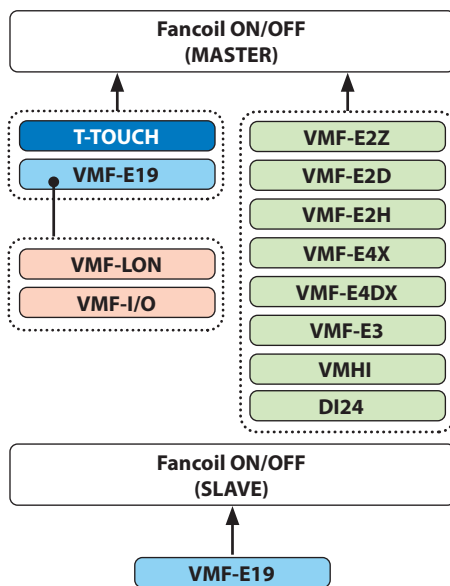
VMF-485EXP: This accessory, specifically mounted in the VMF-E5/RCC panel, adds an RS485 serial communication port to external supervision (BMS, Aerweb or Aermec supervision systems). Not available for VMF-E6.

VMF-MONITORING: PC software to monitor and control the operation of one or several VMF controlled systems. Through the VMF-E5/RCC expansion board, the VMF-485EXP panel provides the RS485 serial communication port used by the VMF-MONITORING application for controlling the hydronic system. The maximum number of controllable systems, each with VMF-E5 and VMF-485EXP expansion, is 10 (not available for VMF-E6).

AERLINK: Aerlink is a WiFi gateway with an RS485 serial port that allows a wide range of Aermec products (heat pumps/chillers/system controllers) equipped with this interface to connect easily and securely to a Wi-Fi network. It works both as an access point (AP access point) and as a client (WiFi Station), it can be connected to a single generator or system centraliser, allowing anyone to easily integrate them into any network. Thanks to the AerApp and AerPlants apps, which can be used on Android and iOS platforms, the remote management of the air conditioning systems developed by Aermec becomes intuitive and simple.

BMConverter: The BMConverter accessory consists of the FPC-N54 network device which allows units that communicate via the Modbus RTU protocol on RS485, to be controlled by a third-party BMS system via the BACNet TCP-IP protocol.

COMPATIBILITY OF VMF COMPONENTS WITH ON/OFF FAN COILS



Type of component:

- Thermostat board
- Thermostat board + Command interface
- Expansion board
- Command interfaces

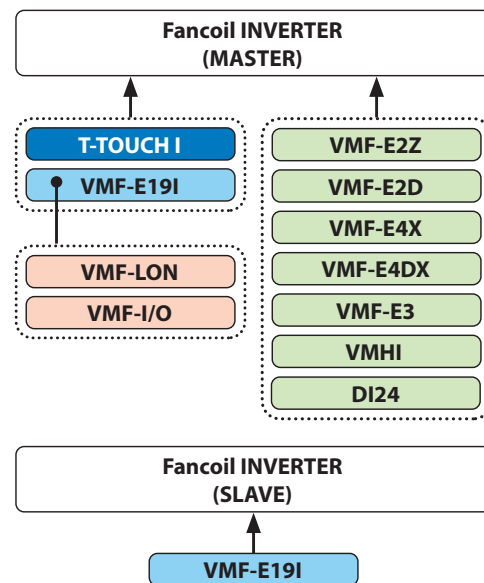
Note:

- Each fan coil (Master or Slave) may have just one thermostat board, selected from those that are compatible;

- The E19 thermostat board can manage just one expansion board, selected from those available;
- Each Master fan coil must have just ONE command interface, selected from those that are compatible:

Command interfaces	Compatible ranges or models
VMF-E2Z	FCZ (AS-AF-U-UA-UF)
	FCZ-D (DS)
	FCZ-H
VMF-E2D	Omnia UL (S)
	Omnia HL (S-SM)
VMF-E2H	FCZ (AS-AF-U-UA-UF)
	FCZ-D (DS)
	FCZ-H
	Omnia UL (S)
	Omnia radiant
VMF-E4X (E4DX) / VMF-E3	FCW
	FCZ (AS-AF-U-UA-UF-DS)
	FCZ-D (DS)
	FCZ-H
	Omnia UL (S)
T-TOUCH	FCZ (AS-AF-U-UA-UF)
	FCZ-D (DS)
	FCZ-H
VMHI / DI24	FCZ (AS-AF-U-UA-UF)
	FCZ-D (DS)
	FCZ-H
	Omnia UL (S)
	Omnia radiant

COMPATIBILITY OF VMF COMPONENTS WITH INVERTER FAN COILS



Type of component:

- Thermostat board
- Thermostat board + Command interface
- Expansion board
- Command interfaces

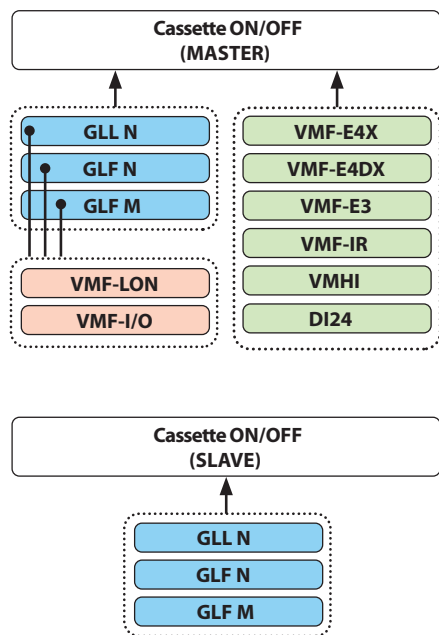
Note:

- Each fan coil (Master or Slave) may have just one thermostat board, selected from those that are compatible;
- The E19I thermostat board can manage just one expansion board, selected from those available;
- Each Master fan coil must have just ONE command interface, selected from those that are compatible:

Command interfaces	Compatible ranges or models
VMF-E2Z	FCZI (AS-AF-U-UF)
	FCZI-H

Command interfaces	Compatible ranges or models
VMF-E2D	Omnia ULI (S)
	FCZI (AS-AF-U-UF)
	FCZI-D (DS)
VMF-E4X (E4DX) / VMF-E3	Omnia ULI (S)
	Omnia radiant plus
	FCWI
T-TOUCH-I	FCZI (AS-AF-U-UF)
	FCZI (AS-AF-U-UF)
	FCZI-D (DS)
VMHI / DI24	Omnia ULI (S)
	Omnia radiant plus

COMPATIBILITY OF VMF COMPONENTS WITH ON/OFF CASSETTES



Type of component:

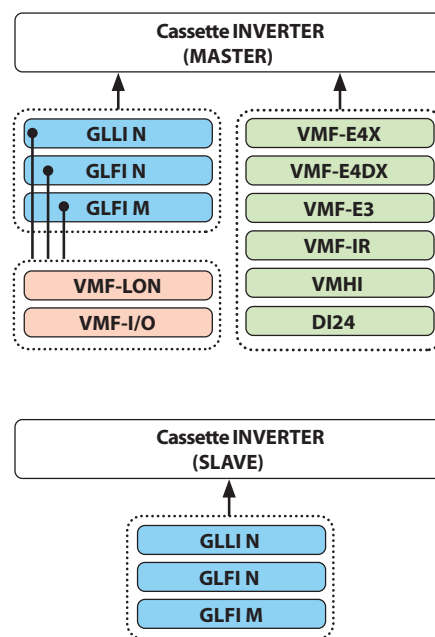
- Delivery suction grille with thermostat board
- Expansion board
- Command interfaces

Note:

- Each Cassette (Master or Slave) must have a delivery recovery grille (fitted with a VMF thermostat board) selected from those that are compatible;
- The delivery recovery grilles can manage just one expansion board, selected from those available;
- Each Master Cassette must have just ONE command interface, selected from those that are compatible:

Command interfaces	Compatible ranges or models
VMF-E4X (E4DX) / VMF-E3	FCL
	VEC
VMF-IR	FCL
	VEC
VMHI / DI24	FCL
	VEC

COMPATIBILITY OF VMF COMPONENTS WITH INVERTER CASSETTES



Type of component:

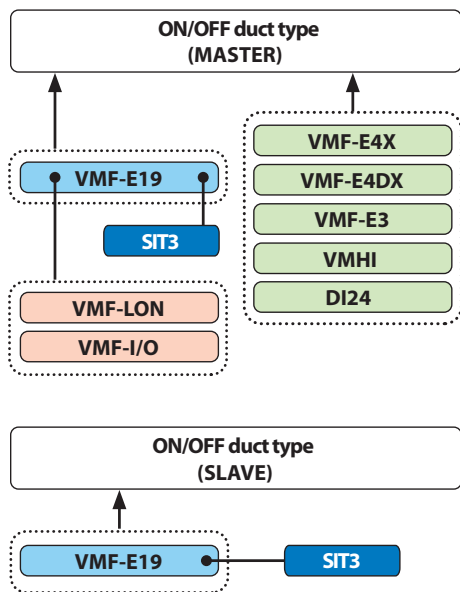
- Delivery suction grille with thermostat board
- Expansion board
- Command interfaces

Note:

- Each Cassette (Master or Slave) must have a delivery recovery grille (fitted with a VMF thermostat board) selected from those that are compatible;
- The delivery recovery grilles can manage just one expansion board, selected from those available;
- Each Master Cassette must have just ONE command interface, selected from those that are compatible:

Command interfaces	Compatible ranges or models
VMF-E4X (E4DX) / VMF-E3	FCLI
	VEC-I
VMF-IR	FCLI
	VEC-I
VMHI / DI24	FCLI
	VEC-I

COMPATIBILITY OF VMF COMPONENTS WITH ON/OFF DUCT TYPE FAN COILS



Type of component:

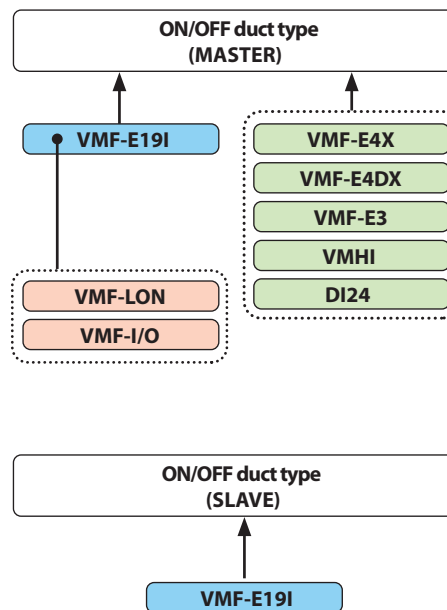
- Thermostat board
- Motor control board
- Expansion board
- Command interfaces

Note:

- Each duct type fan coil (Master or Slave) may have just one thermostat board, selected from those that are compatible;
- The VMF-E19 thermostat board can manage just one expansion board, selected from those available;
- Depending on the size of the duct type fan coil, a motor control board (VMF-SIT3 or SIT3) may be needed;
- Each Master fan coil must have just ONE command interface, selected from those that are compatible:

Command interfaces	Compatible ranges or models
VMF-E4X (E4DX) / VMF-E3	VED
	VES
	FCZ PO
	FCY
	Omnia UL (P - PAF)
	FCZ-H (P-PO)
VMHI / DI24	VED
	VES
	FCZ PO
	FCY
	Omnia UL (P - PAF)
	FCZ-H (P-PO)

COMPATIBILITY OF VMF COMPONENTS WITH INVERTER DUCT TYPE FAN COILS



Type of component:

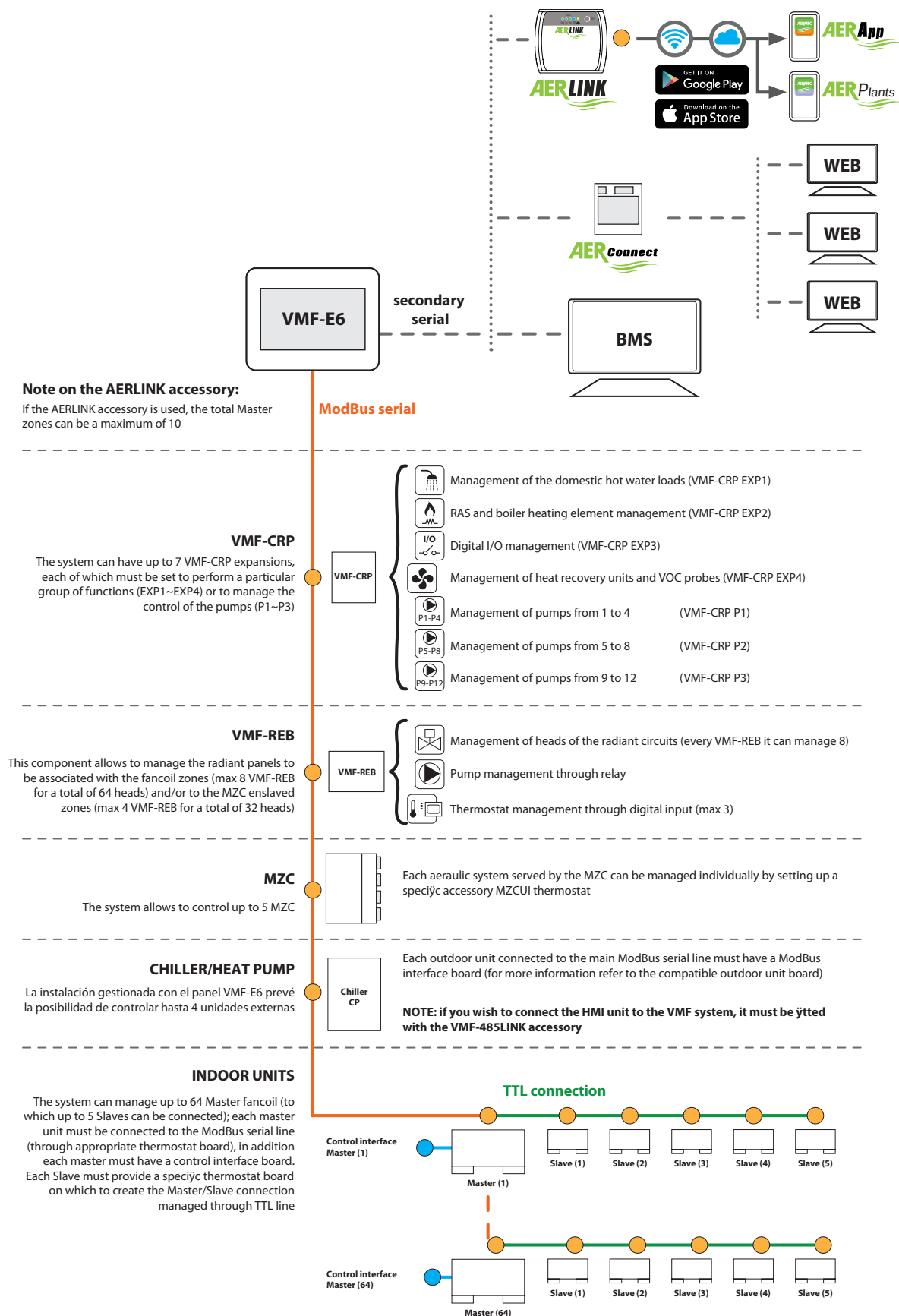
- Thermostat board
- Expansion board
- Command interfaces

Note:

- Each duct type fan coil (Master or Slave) may have just one thermostat board, selected from those that are compatible;
- The VMF-E19I thermostat board can manage just one expansion board, selected from those available;
- Each Master fan coil must have just ONE command interface, selected from those that are compatible:

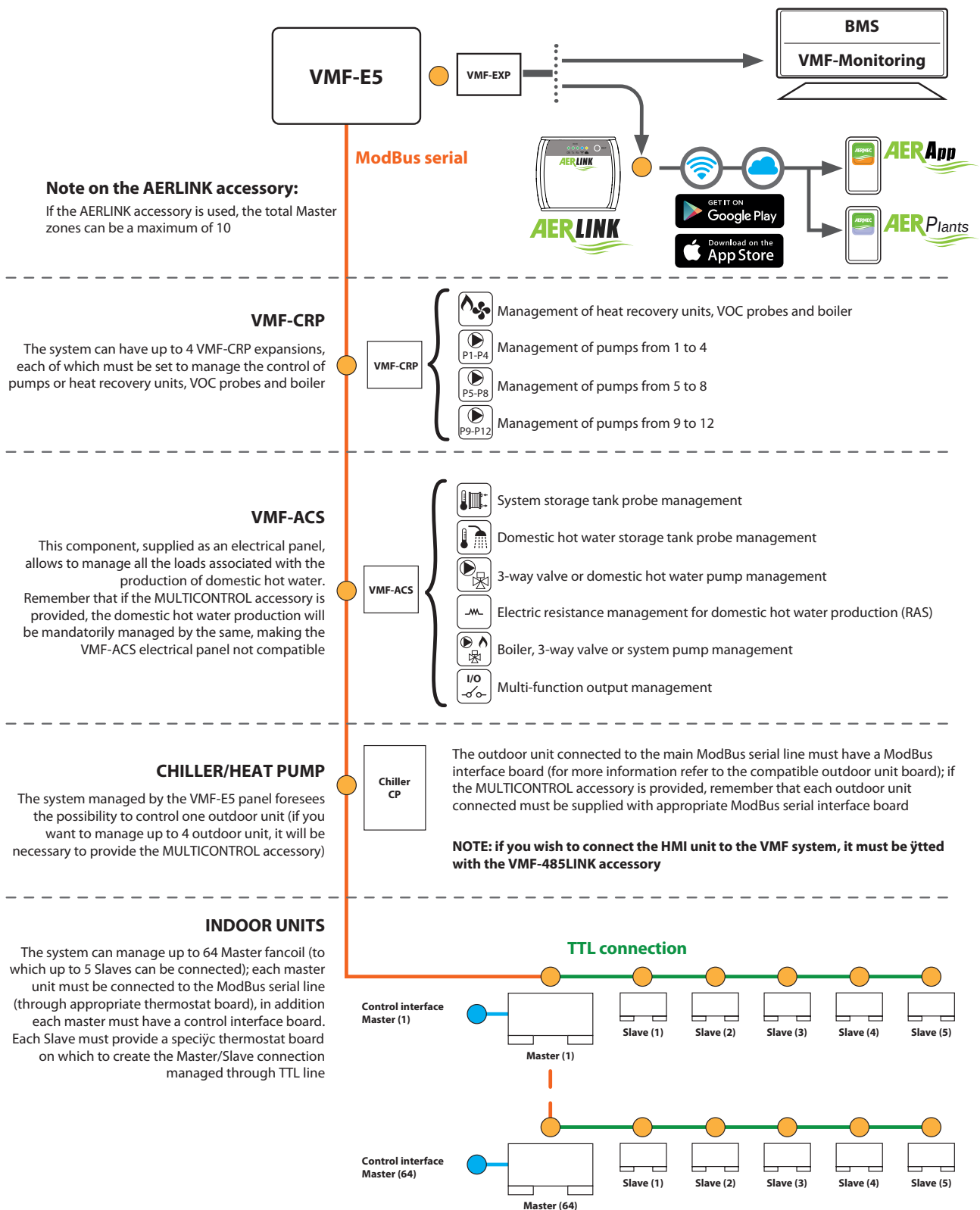
Command interfaces	Compatible ranges or models
VMF-E4X (E4DX) / VMF-E3	VED I
	VES I
	FCZI P
	FCYI
	Omnia UL (P - PAF)
	FCZI-H (P-PO)
VMHI / DI24	VED I
	VES I
	FCZI P
	FCYI
	Omnia UL (P - PAF)
	FCZI-H (P-PO)

EXAMPLE OF SYSTEM COMPONENTS WITH VMF-E6



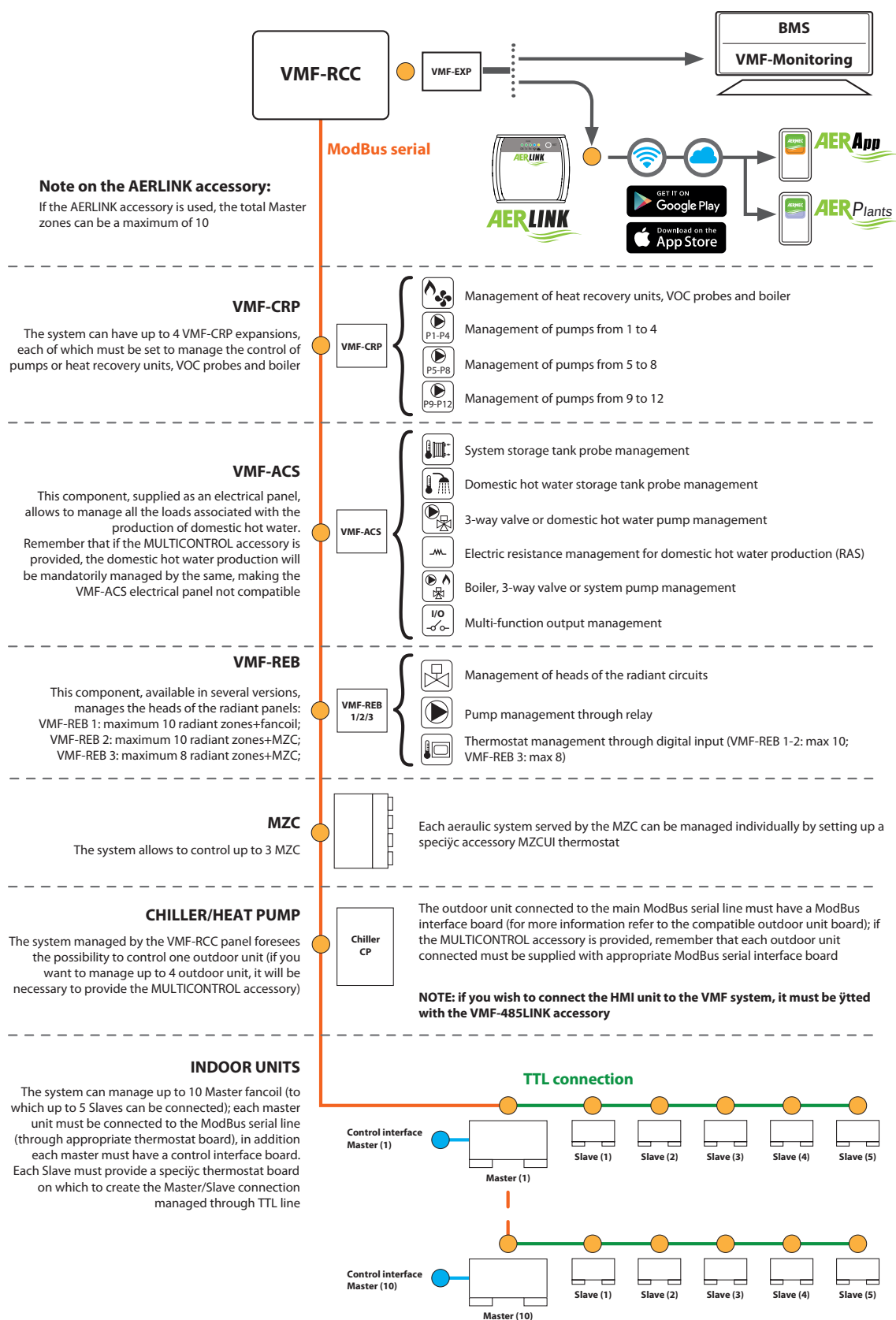
ATTENTION: if one (or more) areas are controlled with an FCWI fan coil (each of which require the VMF-485LINK interface), these areas cannot have a Slave unit.

EXAMPLE OF SYSTEM COMPONENTS WITH VMF-E5



ATTENTION: if one (or more) areas are controlled with an FCWI fan coil (each of which require the VMF-485LINK interface), these areas cannot have a Slave unit.

EXAMPLE OF SYSTEM COMPONENTS WITH VMF-RCC



ATTENTION: if one (or more) areas are controlled with an FCWI fan coil (each of which require the VMF-485LINK interface), these areas cannot have a Slave unit.

Aermec reserves the right to make any modifiycations deemed necessary.
All data is subject to change without notice. Aermec does not assume responsibility or liability for errors or omissions.

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