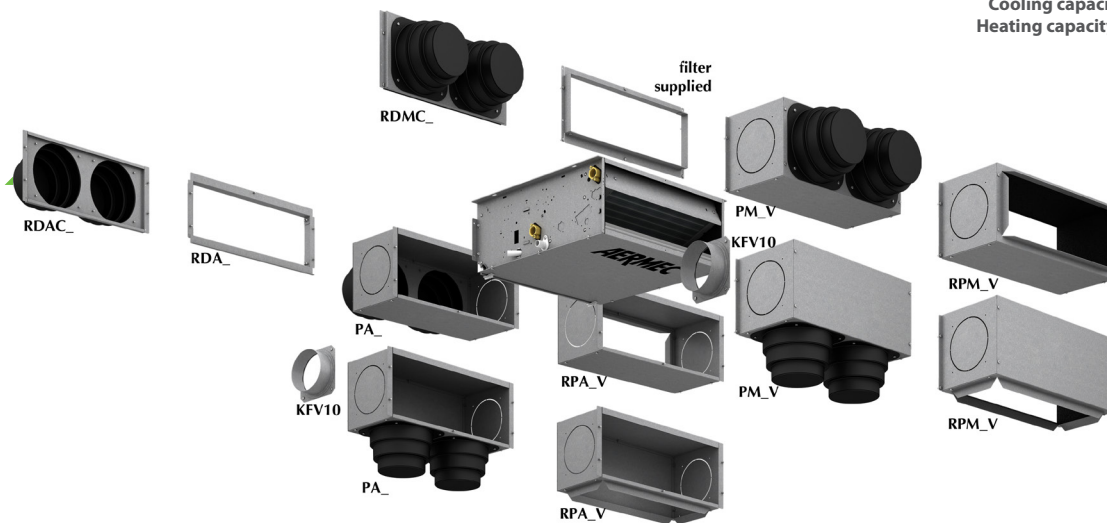


VES 030-340

Fan coil unit For ducted installations

Cooling capacity from 1,82 to 5,70kW
Heating capacity from 1,25 to 10,95kW



- Horizontal or vertical installation
- Heat exchanger developed to optimize the performance sensitive
- Versions for 2/4 pipe systems
- Large range of available static pressure

DESCRIPTION

Ducted fan coil, for heating, cooling and dehumidifying, specific to work in sensible environment. The fan unit at available working pressures, brought internal insulation, ensure excellent acoustic comfort levels. The small dimensions and easy installation make the fan coil designed for 2 and 4-pipe applications. The main coil, reversible during installation, is designed to ensure an high heat transfer, ideal for applications in sensible environment.

FEATURES

- Main standard coil or increased for 2-pipe systems
- Main standard coil and additional heating coil (accessory) for 4-pipe system
- 3-way valve accessory
- 2-way valve accessory for variable flow systems
- Fan assembly, high useful head, with aerofoil designed for high performance and simultaneously low-noise comfort
- Centrifugal fans plastic material, in order to reduce power consumption by increasing the ventilation efficiency
- Compatible with the VMF system
- Large range of controllers
- Large range of accessories to satisfy all installation requirements
- Discharge connection supplied loose
- Air filter Class G3, for easy removal and cleaning
- Internal insulation in fire Class 1
- Protective rating IP20
- Fan housing in plastic material removable for easy and useful cleaning
- Easy of installation and maintenance
- Full compliance with safety standards.

ACCESSORIES

Control panel

A range of dedicated controllers, wall-mounted or on the machine, is available but it is essential to choose between these panels for simple and complete tuning, for more details please refer to the dedicated sheet.

Probes and accessory for control panels

- **SW3:** water temperature probe allowing automatic season change on electronic controllers supplied with water-side change over
- **SWA:** external probe accessory (length = 6m). The probe detects the temperature of the ambient air if connected to the connector (A) on panel FMT21; the ambient air temperature probe incorporated in the panel is automatically deactivated. Detects the temperature of the water in the system, for ventilation consent, if connected to the connector (W) of the FMT21 panel. Two SWA probes can be simultaneously connected to the panel FMT21.
- **SIT3-5:** Thermostat Interface Card allowing the creation of a network of fan coils (max. 10) commanded by a central control panel (selector or thermostat).
- **SIT3:** 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.
- **SIT5:** commands the 3 fan speeds and up to 2 valves (four pipe systems); sends the thermostat's commands to the fan coil network.

VMF system

VMF-E0X: a 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, 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.

The thermostat is protected by a fuse

VMF-E19: like VMF-E0X plus:

- 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

VMF-IO: Expansion board that expands the availability of Digital Inputs and Outputs, configurable via dip switches, thus making it possible to control the thermostat via an external BMS without using a local user interface (e.g. VMF-E2 or VMF-E4X). The expansion board can be used to configure the MODBUS addresses of the single thermostats included in a system, thus avoiding having to interact with the user interface for allocating an address and, most importantly, in order to replicate the address when replacing thermostats.

VMF-LON: Expansion that allows interfacing with a thermostat with BMS systems using the LON protocol.

VMF-E4X: is a wall-mounted user interface to be combined with VMF-E19 and VMF-E19I accessories for drawer grids. 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 with a panel-mounted sensor probe (standard), or with the fan coil probe to which it is connected, 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-E4DX: is a variant of the previous code but with a light grey front panel PANTONE 425C (METAL)

- **VMF-SW:** water probe to be used, if necessary, to replace the one supplied as standard with VMF-E0X, VMF-E19 and VMF-E19I thermostats, for installation upstream of the valve
- **VMF-SW1:** extra water probe to be used for 4-pipe systems with VMF-E19 and VMF-E19I thermostats for overall control in the cold range

Hot water coil

- **BV:** Single row hot water heat exchanger. Not available for versions with Plasmacluster.

Valve kit

- **VCF_X4:** Valve kits for single coil units, installed in 4 pipe systems with totally separated "Cooling" and "Heating" circuits. The kit consists of 2 valves with 3-way 4 port connection complete with electro-thermal actuators, insulating shells for the valves and associated hydraulic piping. The VCF1X4L valve kit allows left side connection.

- **VCF:** kit containing a motorised 3-way valve with insulating shell plus coupling and pipes in insulated copper. Applicable for standard or oversized main coil. Available with 230V and 24V~50Hz power supply.
- **VCFD:** Kit consisting of powered 2-way valve, copper couplings and pipes applicable for standard or oversized main coil. Available with 230V and 24V~50Hz power supply.
- **VJP/VJP_M:** 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, is available with 230V and 24V~50Hz power supply.
- The VJP is controlled by on-off logic with compatible control panels (accessories) The VJP_M is controlled by modulating logic with panels not supplied by Aermec The design water flow rate is crucial to refine the selection of the valve shown in the compatibility table.

Accessory for Installation:

- **AMP:** kit for the wall mounting installation.
- **BC:** Auxiliary condensate drip tray.
- **DSC4:** Condensate drainage device for use when natural run-off is not possible.
- **SE:** External air damper with manual control

Ducting accessories:

- **RDA_V:** Straight intake connection with rectangular flange.
- **RDAC_V:** Straight intake connection with circular flanges.
- **RPA_V:** Intake plenum with rectangular flange.
- **RDMC_V:** Straight discharge with circular flanges. Internally insulated.
- **PA_V:** Intake plenum with circular flanges. Flanges in plastic material.
- **RPM_V:** Discharge plenum with rectangular flange. Internally insulated.
- **PM_V:** Discharge plenum with circular flanges. Internally insulated. Flanges in plastic material.
- **KFV10:** Circular flanges kit for intake/discharge plenum.

Grid:

- **GA:** Intake grid with fixed louvers.
- **GAF:** Intake grid with fixed louvers with filter.
- **GM:** Flow grid with adjustable louvers.

For more details on the control panels and VMF system refer to the dedicated sheet

ACCESSORIES COMPATIBILITY

VES		030	040	130	140	230	240	330	340
Probes and accessories for control panels									
TX		*	*	*	*	*	*	*	*
KTLP		*	*	*	*	*	*	*	*
PX-PX2-PX2C6	(1)	*	*	*	*	*	*	*	*
PXAE		*	*	*	*	*	*	*	*
PXAR		*	*	*	*	*	*	*	*
TPF		*	*	*	*	*	*	*	*
WMT05-06-10		*	*	*	*	*	*	*	*
FMT10		*	*	*	*	*	*	*	*
FMT21		*	*	*	*	*	*	*	*
SWA		In combination with FMT21							
SW3		In combination with PXAE or PXAR							
SIT3		In combination with FMT21 or PXAE or PXAR or PX2 or PX or PX2C6 WMT05*-06-10							
SIT5		In combination with FMT21 or PXAE or PXAR							
VMF System									
VMF-E0		*	*	*	*	*	*	*	*
VMF-E19		*	*	*	*	*	*	*	*
VMF-E4		*	*	*	*	*	*	*	*
VMF-SW		*	*	*	*	*	*	*	*
VMF-SW1		*	*	*	*	*	*	*	*
VMF-I0		*	*	*	*	*	*	*	*
VMF-LON		*	*	*	*	*	*	*	*
Additional coil (heating only)									
BV030		*							
BV130				*					
BV230						*			
BV162								*	
Water valves									
Valve Kit for 4 pipe systems with Main coil									
VCF3X4L-R		*	*	*	*	*	*	*	*
3 way valve kit									
VCF43/4324	(2)	*	*	*		*		*	*
VCF43S/4324S	(2)				*		*		
2 way valve kit									
VCFD3/324	(2)	*	*	*	*	*	*	*	*
3 way valve kit for heating coil only									
VCF45/4524		*		*		*		*	
2 way valve kit for heating coil only									
VCFD4/424		*		*		*		*	
Combined adjustment and balancing valve independent of pressure *									
VJP060/060M	(2)	*	*	*	*				
VJP090/090M	(2)					*	*		
VJP150/150M	(2)							*	*
Accessories for installation									
AMP		*	*	*	*	*	*	*	*
DSC4	(3)	*	*	*	*	*	*	*	*
ZX7		*	*	*	*	*	*		
ZX8								*	*
Auxiliary condensate drip tray									
BC4	(4)	*	*	*	*	*	*	*	*
BC6		*	*	*	*	*	*	*	*
BC9		*	*	*	*	*	*	*	*
Grille									
GA22		*	*						
GA32				*	*				
GA42						*	*		
GA62								*	*
GAF22		*	*						
GAF32				*	*				
GAF42						*	*		

For more details on the control panels and VMF system, refer to the dedicated product data sheets.

* WMT05 not compatible with the additional battery (hot only) BV

(1) Installation only on the wall; (PX2C6 PX2 panel in pack of 6)

(2) VCF4324-VCFD324-VCF4524-VCFD424-VJP060M are 24V

(3) The DSC4 accessory is not compatible with the AMP accessory with all the bowls and the VMF system

(4) BC4 bowl and VCF-VCFD valves cannot be installed simultaneously

VES		030	040	130	140	230	240	330	340
GAF62								•	•
GM22		•	•						
GM32				•	•				
GM42						•	•		
GM62								•	•
SE20X	(5)	•	•						
SE30X	(5)			•	•				
SE40X	(5)					•	•		
SE80X	(5)							•	•
Plenum for duct installation									
RDA000V		•	•						
RDA100V				•	•				
RDA200V						•	•		
RDA300V								•	•
RPA000V	(6)	•	•						
RPA100V	(6)			•	•				
RPA200V	(6)					•	•		
RPA300V	(6)							•	•
RDAC000V		•	•						
RDAC100V				•	•				
RDAC200V						•	•		
RDAC300V								•	•
PA000V	(6)	•	•						
PA100V	(6)			•	•				
PA200V	(6)					•	•		
PA300V	(6)							•	•
PM000V	(6)	•	•						
PM100V	(6)			•	•				
PM200V	(6)					•	•		
PM300V	(6)							•	•
RPM000V	(6)	•	•						
RPM100V	(6)			•	•				
RPM200V	(6)					•	•		
RPM300V	(6)							•	•
RDMC000V		•	•						
RDMC100V				•	•				
RDMC200V						•	•		
RDMC300V								•	•
KFV10		•	•	•	•	•	•	•	•

VJP / VJP_M The compatibility of the valves in the hot branch of the 4-pipe system is to be verified with the projected water flow

(5) SE accessories require combination with ZX structural feet

(6) All Plenums (RPA_V; PA_V; RPM_V; PM_V) have a circular half-cut (Ø = 150mm) on both sides, which can be removed; they can have suction / delivery straight o downwards (referring to horizontal installation)

TECHNICAL DATA

VES		30			40			130			140			230			240			330			340			
Fan speed		H	M	L	H	M	L	H	M	L	H	M	L	H	M	L	H	M	L	H	M	L				
Heating Performance																										
2 pipes system																										
Heating capacity (70°C)	(1)	kW	3,69	3,37	1,82	3,92	3,57	2,37	6,29	5,83	4,40	6,58	6,09	4,52	7,16	6,50	5,35	7,91	7,14	5,80	10,51	9,34	7,81	10,95	10,02	8,31
Water flow rate	(1)	l/h	323	296	160	343	313	207	552	512	386	577	534	396	628	570	469	694	626	509	921	819	685	960	878	729
Pressure drops	(1)	kPa	9	7	3	12	10	4	26	22	13	18	16	9	37	30	27	32	26	18	16	13	9	32	28	22
Heating capacity (50°C)	(2)	kW	2,22	2,03	1,09	2,36	2,15	1,42	3,79	3,52	2,65	3,96	3,67	2,72	4,31	3,92	3,22	4,77	4,30	3,49	6,33	5,63	4,71	6,60	6,04	5,01
Water flow rate	(2)	l/h	383	350	189	406	370	245	660	612	461	682	632	469	743	674	555	820	741	602	1090	969	810	1136	1039	862
Pressure drops	(2)	kPa	13	10	4	17	14	6	39	34	20	25	22	13	54	44	39	48	38	26	22	18	13	45	39	32
Cooling Performance																										
Total cooling capacity	(3)	kW	1,91	1,75	1,25	2,75	1,89	1,30	3,11	2,87	2,20	3,30	3,08	2,43	3,95	3,57	2,85	4,08	3,76	3,40	5,36	4,82	4,00	5,71	5,12	4,46
Sensible cooling capacity	(3)	kW	1,36	1,24	0,88	1,46	1,32	0,86	2,34	2,17	1,59	2,38	2,21	1,68	2,90	2,62	2,13	3,01	2,73	2,35	3,85	3,44	2,85	4,09	3,66	3,18
Water flow rate	(3)	l/h	330	302	215	360	325	224	535	496	379	569	530	419	679	614	491	702	646	584	922	829	689	982	880	768
Pressure drops	(3)	kPa	24	21	11	36	30	15	56	49	30	29	25	17	101	85	57	56	48	40	30	25	18	50	41	32
Total cooling capacity	(4)	kW	0,88	0,80	0,57	0,78	0,51	0,33	1,42	1,32	1,00	1,52	1,40	1,11	1,80	1,64	1,30	1,93	1,74	1,57	2,58	2,30	2,03	2,68	2,41	2,05
Sensible cooling capacity	(4)	kW	0,88	0,80	0,57	0,78	0,51	0,33	1,42	1,32	1,00	1,52	1,40	1,11	1,80	1,64	1,30	1,93	1,74	1,57	2,58	2,30	2,03	2,68	2,41	2,05
Water flow rate	(4)	l/h	151	138	98	136	88	57	244	228	173	262	242	192	309	283	225	333	300	270	445	397	349	461	416	354
Pressure drops	(4)	kPa	4	4	2	5	2	1	10	9	5	5	4	3	18	15	10	9	7	6	6	4	3	8	6	5
Fans																										
Fan		type/n°	Centrifugal/1			Centrifugal/1			Centrifugal/2			Centrifugal/2			Centrifugal/2			Centrifugal/2			Centrifugal/3			Centrifugal/3		
Air flow rate		m³/h	285	256	161	277	249	160	434	397	287	420	386	280	590	524	417	570	509	406	805	704	572	775	685	563
High static pressure		Pa	61	50	21	61	50	21	60	50	26	60	50	26,4	64	50	32	63	50	32	66	50	33	64	50	34
Sound data																										
Sound power level (inle+radiaor)	(5)	dB(A)	54	52	44	54	52	44	55	53	47	55	53	47	57	54	49	57	54	49	58	55	38	58	55	38
Sound power level (outlet)		dB(A)	50	48	40	50	48	40	50	48	42	50	48	42	52	49	44	52	49	44	54	51	34	54	51	34
Diameter connections																										
Standard coil		Ø	3/4"			3/4"			3/4"			3/4"			3/4"			3/4"			3/4"			3/4"		
Additional coil		Ø	/			/			/			/			/			/			/			/		
Electrical Features																										
Absorbed power		W	59	38	23	58	38	23	76	53	34	75	52	34	93	57	43	92	57	43	104	75	63	103	74	63
Max. input current		A	0,37			0,37			0,41			0,41			0,58			0,58			0,66			0,66		
Electrical wiring			V6	V4	V1	V6	V4	V1	V6	V4	V1	V6	V4	V1	V6	V3	V1	V6	V3	V1	V7	V3	V1	V7	V3	V1
Power supply		V/ph/Hz	230V~50Hz																							

H max. speed; M med.speed; L min.speed

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

(2) Room air 20°C b.s.; Water (in/out) 50°C/45°C;

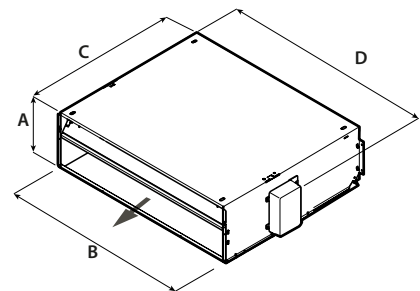
(3) Room air 27°C b.s./19°C b.u.; Water (in/out) 7°C/12°C (EUROVENT)

(4) Room air 27°C b.s./19°C b.u.; Water (in/out) 13°C/18°C

(5) Sound power: Aermec determines sound power values on the basis of measurements made in accordance with UNI EN 16583:15, as required for Eurovent certification.

DIMENSIONS AND WEIGHT

VES		030	040	130	140	230	240	330	340
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
Weight	Kg	22	24	25	33	33	34	35	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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VES-I-030-340

Fan coil unit with Inverter brushless motor for ducted installations

Cooling capacity 1,25 ÷ 5,70 kW
Heating capacity 1,8 ÷ 10,9 kW

- Horizontal or vertical installation
- Heat exchanger developed to optimize the performance sensitive
- Versions for 2/4 pipe systems
- Large range of available static pressure



EUROVENT LCP

DESCRIPTION

Ducted fan coil with inverter technology, for heating, cooling and dehumidifying, specific to work in sensible environment.

Equipped with inverter Brushless motor for an high efficiency and a continuous air flow rate modulation in order to increased comfort and guarantee electric saving. The inverter motor allows a better air temperature regulation based on the real indoor environment requirements without swinging temperature.

The fan unit at available working pressures, brought internal insulation, ensure excellent acoustic comfort levels.

The small dimensions and easy installation make the fan coil designed for 2 and 4-pipe applications.

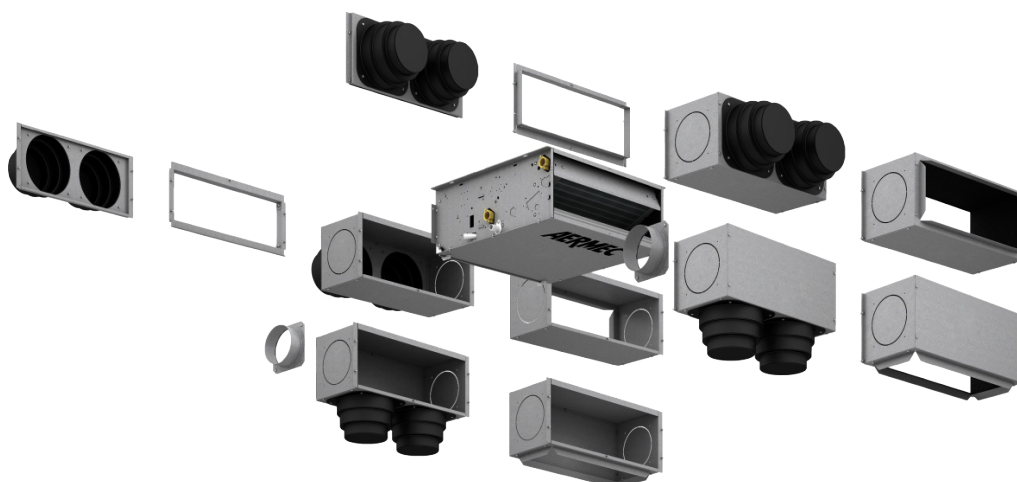
The main coil, reversible during installation, is designed to ensure an high heat transfer, ideal for applications in sensible environment.

FEATURES

- Main standard coil or increased for 2-pipe systems
- Main standard coil and additional heating coil (accessory) for 4-pipe system

- 3-way valve accessory
- 2-way valve accessory for variable flow systems
- Fan assembly, high useful head, with aerofoil designed for high performance and simultaneously low-noise comfort
- Centrifugal fans plastic material, in order to reduce power consumption by increasing the ventilation efficiency
- Compatible with the VMF system
- Large range of controllers
- Large range of accessories to satisfy all installation requirements
- Discharge connection supplied loose
- Air filter Class G3, for easy removal and cleaning
- Internal insulation in fire Class 1
- Protective rating IP20
- Fan housing in plastic material removable for easy and useful cleaning
- Easy of installation and maintenance
- Full compliance with safety standards.

ACCESSORIES



Control panel

A range of dedicated controllers, wall-mounted or on the machine, is available but it is essential to choose between these panels for simple and complete tuning, for more details please refer to the dedicated sheet.

Probes and accessories for control panels

WMT21: Electronic thermostat with LCD display (wall installation).

SWAI: Water temperature probe for WMT21 control panels. Cable length L=2m.

VMF system

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

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

VMF-E19I: Thermostat accessory for inverter units to be secured to the side of the fan coil, fitted as standard with an air probe and a water probe.

VMF-IO: Expansion board that expands the availability of Digital Inputs and Outputs.

VMF-LON: Expansion that allows interfacing with a thermostat with BMS systems using the LON protocol.

VMF-SW: water probe to be used, if necessary, to replace the one supplied as standard with VMF-E0X, VMF-E19 and VMF-E19I thermostats, for installation upstream of the valve

VMF-SW1: extra water probe to be used for 4-pipe systems with VMF-E19 and VMF-E19I thermostats for overall control in the cold range

Hot water coil

BV: Single row hot water heat exchanger.

Valve kit

VCZ_X4: Valve kits for single coil units, installed in 4 pipe systems with totally separated "Cooling" and "Heating" circuits. The kit consists of 2 valves with 3-way 4 port connection complete with electro-thermal actuators, insulating shells for the valves and associated hydraulic piping. Version_X4L valve kit allows left side connection. Version_X4R valve kit allows right side connection. Power supply 230V ~ 50Hz

VCF: kit containing a motorised 3-way valve with insulating shell plus coupling and pipes in insulated copper. Applicable for standard or oversized main coil. Available with 230V and 24V~50Hz power supply.

VCFD: Kit consisting of powered 2-way valve, copper couplings and pipes applicable for standard or oversized main coil. Available with 230V and 24V~50Hz power supply.

VJP/VJP_M: 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, is available with 230V and 24V~50Hz power supply.

The VJP is controlled by on-off logic with compatible control panels (accessories)

The VJP_M is controlled by modulating logic with panels not supplied by Aermec

The design water flow rate is crucial to refine the selection of the valve shown in the compatibility table.

Accessory for Installation

AMP: kit for the wall mounting installation.

BC: Auxiliary condensate drip tray.

DSC4: Condensate drainage device for use when natural run-off is not possible.

SE: External air shutter with manual control

Ducting Accessories:

RDA_V: Straight intake connection with rectangular flange.

RDAC_V: Straight intake connection with circular flanges.

RPA_V: Intake plenum with rectangular flange.

RDMC_V: Straight discharge with circular flanges. Internally insulated.

PA_V: Intake plenum with circular flanges. Flanges in plastic material.

RPM_V: Discharge plenum with rectangular flange. Internally insulated.

PM_V: Discharge plenum with circular flanges. Internally insulated. Flanges in plastic material.

KFV10: Circular flanges kit for intake/discharge plenum.

Grid

GA: Intake grid with fixed louvers.

GAF: Intake grid with fixed louvers with filter.

GM: Flow grid with adjustable louvers.

■ For more details on the control panels and VMF system refer to the dedicated sheet

ACCESSORIES COMPATIBILITY

Size		030	040	130	140	230	240	330	340
Probes and accessories for control panels									
TX		*	*	*	*	*	*	*	*
WMT21		*	*	*	*	*	*	*	*
SWAI		In combination with WMT21							
VMF System									
VMF-E4X		*	*	*	*	*	*	*	*
VMF-E4DX		*	*	*	*	*	*	*	*
VMF-E19I		*	*	*	*	*	*	*	*
VMF-IO		*	*	*	*	*	*	*	*
VMF-LON		*	*	*	*	*	*	*	*
VMF-SW		*	*	*	*	*	*	*	*
VMF-SW1		*	*	*	*	*	*	*	*
Additional coil (heating only)									
BV030		*							
BV130				*					
BV230						*			
BV162								*	
Water valves									
Valve Kit for 4 pipe systems with Main coil									
VCF3X4L-R		*	*	*	*	*	*	*	*
3 way valve kit									
VCF43/4324	(1)	*	*	*	*	*	*	*	*
2 way valve kit									
VCFD3/324	(1)	*	*	*	*	*	*	*	*
3 way valve kit for heating coil only									
VCF45/4524	(1)	*		*		*		*	
2 way valve kit for heating coil only									
VCFD4/424	(1)	*		*		*		*	
Combined adjustment and balancing valve independent of pressure									
VJP060/060M		*	*	*	*				
VJP090/090M						*	*		
VJP150/150M								*	*
Accessories for installation									
AMP		*	*	*	*	*	*	*	*
DSC4	(2)	*	*	*	*	*	*	*	*
ZX7		*	*	*	*	*	*		
ZX8								*	*
Auxiliary condensate drip tray									
BC4		*	*	*	*	*	*	*	*
BC6		*	*	*	*	*	*	*	*
BC9		*	*	*	*	*	*	*	*

VJP / VJP_M The compatibility of the hot water valves with the designed air flow in a four-pipe installation is to be verified.

(1) The VCF / VCFD valve kits and the BC4 tray cannot be installed at the same time on the same fancoil.

(2) DSC4 It's not available with AMP and BC4 - BC6 - BC9 and VMF-System

VCF4324-VCFD324-VCF4524-VCFD424-VJP060M-VJP090M-VJP150M are 24V

Size		030	040	130	140	230	240	330	340
Grid									
GA22		*	*						
GA32				*	*				
GA42						*	*		
GA62								*	*
GAF22		*	*						
GAF32				*	*				
GAF42						*	*		
GAF62								*	*
GM22		*	*						
GM32				*	*				
GM42						*	*		
GM62								*	*
SE20X	(3)	*	*						
SE30X	(3)			*	*				
SE40X	(3)					*	*		
SE80X	(3)							*	*
Plenum for duct installation									
RDA000V		*	*						
RDA100V				*	*				
RDA200V						*	*		
RDA300V								*	*
RPA000V	(4)	*	*						
RPA100V	(4)			*	*				
RPA200V	(4)					*	*		
RPA300V	(4)							*	*
RDAC000V		*	*						
RDAC100V				*	*				
RDAC200V						*	*		
RDAC300V								*	*
PA000V	(4)	*	*						
PA100V	(4)			*	*				
PA200V	(4)					*	*		
PA300V	(4)							*	*
PM000V	(4)	*	*						
PM100V	(4)			*	*				
PM200V	(4)					*	*		
PM300V	(4)							*	*
RPM000V	(4)	*	*						
RPM100V	(4)			*	*				
RPM200V	(4)					*	*		
RPM300V	(4)							*	*
RDMC000V		*	*						
RDMC100V				*	*				
RDMC200V						*	*		
RDMC300V								*	*
KFV10		*	*	*	*	*	*	*	*

(3) The accessory SE require pairing with ZX

(4) All the Plenums (RPA_V; PA_V; RPM_V; PM_V) have a circular push-outs (Ø=150mm) on both sides, which can be removed, All the can have intake/discharge either straight or downwards (straight or downwards with reference to horizontal installation).

TECHNICAL DATA

Size	030						040			130			140			230			240			330			340		
Fan speed	H	M	L	H	M	L	H	M	L	H	M	L	H	M	L	H	M	L	H	M	L	H	M	L			
Heating Performance																											
2 pipe configuration																											
Heating capacity (70°C)	(1)	kW		3,69	3,37	1,82	3,92	3,57	2,37	6,29	5,83	4,40	6,58	6,09	4,52	7,16	6,50	5,35	7,91	7,14	5,80	10,51	9,34	7,81	10,95	10,02	8,31
Water flow rate	(1)	l/h		323	296	160	343	313	207	552	512	386	577	534	396	628	570	469	694	626	509	921	819	685	960	878	729
Pressure drops	(1)	kPa		9,0	7,0	3,0	12,0	10,0	4,0	26,0	22,0	13,0	18,0	16,0	9,0	37,0	30,0	27,0	32,0	26,0	18,0	16,0	13,0	9,0	32,0	28,0	22,0
Heating capacity (50°C)	(2)	kW		1,83	1,67	0,92	1,94	1,78	1,18	3,14	2,90	2,19	3,30	3,02	2,25	5,56	3,23	2,65	3,93	3,55	2,88	5,22	4,64	3,88	5,45	4,98	4,13
Water flow rate	(2)	l/h		383	350	189	406	370	245	660	612	461	682	632	469	743	674	555	820	741	602	1090	969	810	1136	1039	862
Pressure drops	(2)	kPa		9,0	7,5	2,5	12,5	10,5	5,0	27,5	24,0	14,5	18,5	16,0	10,0	39,0	32,5	23,0	32,0	26,5	18,5	16,5	13,5	10,0	30,3	19,5	18,5
Cooling Performance																											
Total cooling capacity	(3)	kW		1,91	1,75	1,26	2,00	1,89	1,30	3,12	2,87	2,20	3,31	3,10	2,43	3,95	3,56	2,84	4,10	3,37	3,39	5,24	4,81	3,99	5,71	5,12	4,46
Sensible cooling capacity	(3)	kW		1,35	1,24	0,89	1,45	1,32	0,86	2,34	2,17	1,59	2,38	2,20	1,68	2,89	2,61	2,12	3,02	2,73	2,34	3,86	3,44	2,84	4,09	3,66	3,18
Latent cooling capacity	(3)	kW		0,56	0,51	0,37	0,55	0,57	0,44	0,78	0,70	0,61	0,93	0,90	0,75	1,06	0,95	0,72	1,08	0,64	1,05	1,38	1,37	1,15	1,62	1,46	1,28
Water flow rate	(3)	l/h		151	138	98	136	88	57	244	228	173	262	242	192	309	283	225	333	300	270	445	397	349	461	416	354
Pressure drops	(3)	kPa		24,5	21,0	11,5	35,5	30,5	16,0	56,5	49,0	30,0	29,0	23,0	16,5	102,0	84,5	56,0	57,0	48,5	40,5	30,5	25,0	18,0	50,0	41,0	32,0
Total cooling capacity	(4)	kW		0,88	0,80	0,57	0,78	0,51	0,33	1,42	1,32	1,00	1,52	1,40	1,11	1,80	1,64	1,30	1,93	1,74	1,57	2,58	2,30	2,03	2,68	2,41	2,05
Sensible cooling capacity	(4)	kW		0,88	0,80	0,57	0,78	0,51	0,33	1,42	1,32	1,00	1,52	1,40	1,11	1,80	1,64	1,30	1,93	1,74	1,57	2,58	2,30	2,03	2,68	2,41	2,05
Water flow rate	(4)	l/h		151	138	98	136	88	57	244	228	173	262	242	192	309	283	225	333	300	270	445	397	349	461	416	354
Pressure drops	(4)	kPa		4	4	2	5	2	1	10	9	5	5	4	3	18	15	10	9	7	6	6	4	3	8	6	5
Fans																											
Fans - Centrifugal	n°	1			1			2			2			2			2			3			3				
Air flow rate	m³/h	285	256	161	277	249	160	434	397	287	420	386	280	590	524	417	570	509	406	805	704	572	775	685	563		
High static pressure	Pa	61	50	21	61	50	21	60	50	26	60	50	26,4	64	50	32	63	50	32	66	50	33	64	50	34		
Sound data																											
Sound power level (inle+radiator)	(5) dB(A)	54	52	44	54	52	44	55	53	47	55	53	47	57	54	49	57	54	49	58	55	49	58	55	49		
Sound power level (outlet)	dB(A)	50	48	40	50	48	40	50	48	42	50	48	42	52	49	44	52	49	44	54	51	45	54	51	45		
Diameter connections																											
Standard coil	Ø	3/4"			3/4"			3/4"			3/4"			3/4"			3/4"			3/4"			3/4"				
Additional coil	Ø	-			-			-			-			-			-			-			-				
Electrical Features																											
Absorbed power	W	36	29	12	36	29	12	45	33	17	45	33	17	53	40	24	53	40	24	86	60	35	86	60	35		
Signal 0-10V	%	90	80	54	90	80	54	90	82	58	90	82	58	90	78	66	90	80	62	90	78	62	90	78	66		
Power supply		230V~50Hz																									

H max. speed; M med.speed; L min.speed

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

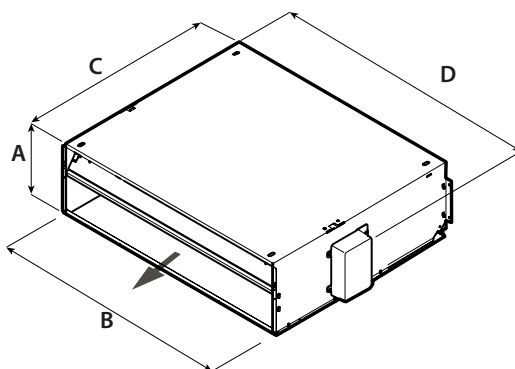
(2) Room air 20°C b.s.; Water (in/out) 50°C/45°C;

(3) Room air 27°C b.s./19°C b.u.; Water (in/out) 7°C/12°C (EUROVENT)

(4) Room air 27°C b.s./19°C b.u.; Water (in/out) 13°C/18°C

(5) Sound power: Aermec determines sound power values on the basis of measurements made in accordance with UNI EN 16583:15, as required for Eurovent certification.

DIMENSIONS



Size		030	040	130	140	230	240	330	340
Dimensions and weight									
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
Weight	Kg	20	21	23	24	29	32	32	34

Aermec reserves the right to make any modifications deemed necessary.

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VES-I-5300-7400

Fan coil unit equipped with inverter Brushless motor for ducted installations

Cooling capacity 4,44 ÷ 11,81 kW
Heating capacity 9,91 ÷ 25,37 kW

- Horizontal or vertical installation
- Versions for 2/4 pipe systems
- Large range of available static pressure
- Height 217mm (slim line)



EUROVENT LCP

DESCRIPTION

Ducted fan coil with inverter technology, for heating, cooling and dehumidifying, specific to work in sensible environment.

Equipped with inverter Brushless motor for an high efficiency and a continuous air flow rate modulation in order to increased comfort and guarantee electric saving. The inverter motor allows a better air temperature regulation based on the real indoor environment requirements without swinging temperature.

The fan unit at available working pressures, thought internal insulation, ensure excellent acoustic comfort levels.

The small dimensions and easy installation make the fan coil designed for 2 and 4-pipe applications.

The main coil, is designed to ensure an high heat transfer, ideal for applications in sensible environment.

FEATURES

- Main standard coil or increased for 2-pipe systems
- Main standard coil and additional heating coil (accessory) for 4-pipe system

- 3-way valve accessory
- 2-way valve accessory for variable flow systems
- Fan assembly, high useful head, with aerofoil designed for high performance and simultaneously low-noise comfort
- Centrifugal fans plastic material, in order to reduce power consumption by increasing the ventilation efficiency
- Compatible with the VMF system
- Large range of controllers
- Large range of accessories to satisfy all installation requirements
- Discharge connection supplied loose
- Air filter Class G3, for easy removal and cleaning
- Internal insulation in fire Class 1
- Protective rating IP20
- Fan housing in plastic material removable for easy and useful cleaning
- Easy of installation and maintenance
- Full compliance with safety standards.

CONFIGURATOR

Field	Description
1,2,3	VES
4	Size
	5-7
5	Main coil
3	Standard
4	Increased coil

Field	Description
6,7	Coil only hot
00	Without coil
05	Coil only heating power limited
10	Coil only heating
8	Inverter motor
I	Inverter

TECHNICAL DATA

Size			5300			5400			7300			7400		
Fan speed			H	M	L	H	M	L	H	M	L	H	M	L
Heating Performance														
2 pipe configuration														
Heating capacity (70°C)	(1)	kW	12,18	11,27	9,91	12,98	11,92	10,29	23,50	21,67	16,78	25,37	23,30	17,88
Water flow rate	(1)	l/h	1069	989	869	1139	1046	902	2061	1901	1472	2225	2044	1569
Pressure drops	(1)	kPa	32,0	26,0	22,0	16,0	14,0	11,0	47,0	40,0	23,0	33,0	28,0	18,0
Heating capacity (50°C)	(2)	kW	6,06	5,60	4,93	6,45	5,92	5,11	11,60	10,70	8,34	12,60	11,50	7,80
Water flow rate	(2)	l/h	1042	963	848	1109	1018	879	1995	1840	1434	2167	1978	1342
Pressure drops	(2)	kPa	32,0	28,0	22,0	16,0	13,5	10,0	46,0	40,0	25,0	33,0	28,0	13,8
Cooling Performance														
Total cooling capacity	(3)	kW	5,62	5,18	4,44	5,85	5,35	4,56	10,63	9,94	8,17	11,80	10,80	8,00
Sensible cooling capacity	(3)	kW	3,82	3,51	3,02	3,91	3,59	3,12	7,29	6,75	5,35	7,90	7,26	5,48
Cooling capacity (latent)	(3)	kW	1,80	1,67	1,42	1,94	1,76	1,44	3,34	3,19	2,82	3,90	3,54	2,52
Water flow rate	(3)	l/h	967	891	764	1006	920	784	1828	1710	1405	2030	1858	1376
Pressure drops	(3)	kPa	36,0	31,0	23,0	19,0	16,5	12,1	50,0	44,0	31,0	39,0	33,5	19,5
Fans														
Fans - Centrifugal		n°	4			4			6			6		
Air flow rate		m³/h	825	750	640	825	750	640	1650	1500	1138	1650	1500	1138
High static pressure		Pa	60	50	37	60	50	36	60	50	29	60	50	29
Sound data														
Sound power level (inle+radiated)	(4)	dB(A)	58	56	52	58	56	52	62	60	40	62	60	40
Sound power level (outlet)		dB(A)	54	52	48	54	52	48	58	56	36	58	56	36
Diameter connections														
Standard coil		Ø	3/4"			3/4"			3/4"			3/4"		
Additional coil		Ø	-			-			-			-		
Electrical Features														
Absorbed power		W	72	53	38	72	53	38	153	120	59	153	120	59
Signal 0-10V		%	90	82	70	90	82	70	90	82	62	90	82	62
Power supply			230V~50Hz											

Size			5305			5310			7305			7310			
Fan speed			H	M	L	H	M	L	H	M	L	H	M	L	
Heating Performance															
4 pipe configuration															
Heating capacity (70°C)		(1)	kW	4,15	3,91	3,55	7,07	6,64	5,95	5,24	4,94	4,06	9,56	9,01	7,54
Water flow rate		(1)	l/h	364	343	311	621	582	522	460	434	356	838	790	662
Pressure drops		(1)	kPa	9,0	8,0	6,0	7,0	6,0	5,0	10,0	9,0	6,0	17,0	14,0	11,0
Cooling Performance															
Total cooling capacity		(3)	kW	5,63	5,18	4,44	5,63	5,18	4,44	10,37	9,94	8,17	10,37	9,94	8,17
Sensible cooling capacity		(3)	kW	3,82	3,51	3,02	3,82	3,51	3,02	7,29	6,76	5,36	7,29	6,76	5,36
Cooling capacity (latent)		(3)	kW	1,81	1,67	1,42	1,81	1,67	1,42	3,08	3,18	2,81	3,08	3,18	2,81
Water flow rate		(3)	l/h	968	891	763	968	891	763	1830	1709	1406	1830	1709	1406
Pressure drops		(3)	kPa	36,0	31,0	23,0	36,0	31,0	23,0	49,0	44,0	31,0	49,0	44,0	31,0
Fans															
Fans - Centrifugal			n°	4			4			6			6		
Air flow rate			m³/h	825	750	640	825	750	640	1650	1500	1138	1650	1500	1138
High static pressure			Pa	60	50	37	60	50	37	60	50	29	60	50	29
Sound data															
Sound power level (inle+ radiator)		(4)	dB(A)	58	56	52	58	56	52	62	60	40	62	60	40
Sound power level (outlet)			dB(A)	50	48	44	50	48	44	54	52	32	54	52	32
Diameter connections															
Standard coil			Ø	3/4"			3/4"			3/4"			3/4"		
Additional coil			Ø	1/2"			1/2"			1/2"			1/2"		
Electrical Features															
Absorbed power			W	72	53	38	72	53	38	153	120	66	153	120	66
Signal 0-10V			%	90	84	66	90	84	66	90	76	62	90	78	64
Power supply				230V~50Hz											

H max. speed; M med. speed; L min. speed

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

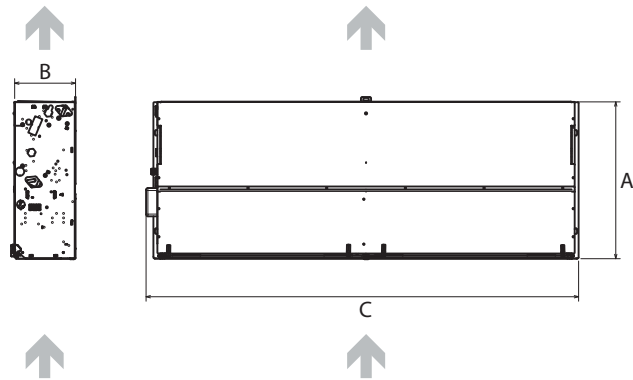
(2) Room air 20°C b.s.; Water (in/out) 50°C/45°C;

(3) Room air 27°C b.s./19°C b.u.; Water (in/out) 7°C/12°C (EUROVENT)

(4) Sound power: Aermec determines sound power values on the basis of measurements made in accordance with UNI EN 16583:15, as required for Eurovent certification.

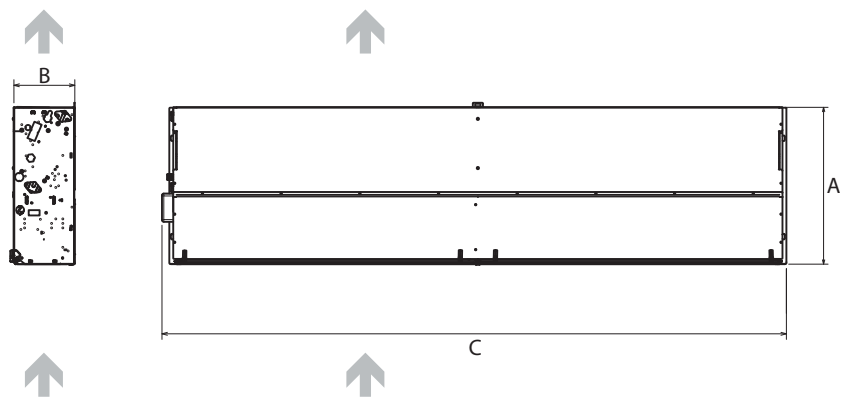
DIMENSIONS

VES: 5300I - 5305I - 5310I - 5400I



Size		5300	5305	5310	5400
Dimensions and weights					
A	mm	558	558	558	558
B	mm	217	217	217	217
C	mm	1539	1539	1539	1539
Weights	kg	46	47	47	47

VES: 7300I - 7305I - 7310I - 7400I



Size		7300	7305	7310	7400
Dimensions and weights					
A	mm	558	558	558	558
B	mm	217	217	217	217
C	mm	2222	2222	2222	2222
Weights	kg	65	68	68	68

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