VEC

Cassette type fancoil Coanda-effect
Installation in false ceilings

Variable Multi Flow
VMF

Aermec
participate in the EUROVENT
program: FC / 2 / H
the products are present on the site
www .eurovent-certification. com

Features

VEC: Fan coil for ambient air treatment during the summer. The air is delivered into the room via vents which, thanks to the COANDA effect, make the air jet adhere to the ceiling.

- Available in 4 sizes
- Installation in false ceilings
- Compatible with VMF System
- Grille with suction and adjustable delivery vents with Coanda effect (compulsory accessory).
- 3-row coil
- Reduced pressure drops across heat exchangers
- For systems with fixed and variable delivery
- EUROVENT certified
- 3-speed fan unit
- Quiet operation
- Motors with permanently connected condensers
- Air filter easily removed and cleaned
- Internal insulation and air filter of Class 1 fire resistance
- Removable shrouds for easy, effective cleaning
- Reversibility of the water connections during installation
- Broad range of controls and accessories
- Easy installation and maintenance
- Full compliance with safety regulations
- For possible heat mode functioning, refer to the technical manual notes.

Accessoires

Compulsory accessories:
the following are essential for the functioning of the units:

- **VEC_GL**: air suction and delivery grille with adjustable Coanda-effect vents. White RAL 9010.
- **Control panel and VMF system**: the features of the control panels are described in the relevant card.

Accessories:

- **AMP**: kit for wall-mounting installation.
- **BC5**: auxiliary condensate drain tray.
- **BV**: Single row hot water coil.
- **DSC4**: condensate drainage device for use when natural run-off is not possible.
- **PCR1**: galvanised sheet metal protection for the commands and the electric resistor.

SIT 3-5: thermostat interface cards. These allow you to create a network of fan coils (max. 10), commanded from a centralised panel (selector or thermostat).
SIT3: commands the 3 fan speeds, and must be installed on each fan coil in the network; receives the commands from the selector or SIT5 card.
SIT5: commands the 3 fan speeds and up to 2 valves (4-pipe systems); conveys the thermostat commands to the fan coil network.

- **SW3**: water temperature probe, allowing the implementation of automatic season changeover for those electronic thermostats equipped with water side changeover.
- **SWA:** SWA external probe accessory (length L = 6m). Detects the ambient air temperature if connected to the connector (A) of the panel FMT20AW; in this case the ambient air temperature probe built into the panel will be automatically disabled. Detects the temperature of the water in the system to allow ventilation consent if connected to the connector (W) of the panel FMT20AW. Two SWA probes may be simultaneously connected to the panel FMT20AW.
- **VCF**: kit consisting of a 3-way motorised valve, and copper couplings and pipes. For 3-row and 1-row coils (BV). Versions with 230V and 24V~50Hz power supply.
- **VCFD**: Kit consisting of a 2-way motorised valve, and copper couplings and pipes. For 3-row and 1-row coils (BV). Versions with 230V and 24V~50Hz power supply.

Accessory	Size VEC20	VEC30	VEC40	VEC50
VEC20GL	✔			
VEC30GL		✔		
VEC40GL			✔	✔
FMT10	✔	✔	✔	✔
FMT20AW	✔	✔	✔	✔
KTLP	✔	✔	✔	✔
PX2	✔	✔	✔	✔
PXAE	✔	✔	✔	✔
PXAR	✔	✔	✔	✔
WMT05	✔	✔	✔	✔
WMT10	✔	✔	✔	✔

Accessory		Size VEC20	VEC30	VEC40	VEC50
AMP		✔	✔	✔	✔
AMP	20	✔	✔	✔	✔
BC	5	✔	✔	✔	✔
	122	✔			
BV	132		✔		
	142			✔	✔
DSC	4	✔	✔	✔	✔
SIT	3	✔	✔	✔	✔
SIT	5	✔	✔	✔	✔
PCR1		✔	✔	✔	✔

Accessory		Size VEC20	VEC30	VEC40	VEC50
SW	3	✔	✔	✔	✔
SWA		✔	✔	✔	✔
	41	✔	✔		
	42			✔	✔
	44*	✔	✔	✔	✔
VCF	4124	✔	✔		
	4224			✔	✔
	4424*	✔	✔	✔	✔
	1	✔	✔		
	2			✔	✔
VCFD	4*	✔	✔	✔	✔
	124	✔	✔		
	224			✔	✔
	424*	✔	✔	✔	✔

* = only for accessory coil BV 1R

Technical data

Mod. VEC		20	30	40	50
Total cooling capacity	W (max)	1320	1950	2985	3610
	W (med)	1085	1645	2470	3170
	W (min)	805	1370	1985	2350
Sensible cooling capacity	W (max)	1085	1535	2410	2595
	W (med)	885	1285	1980	2275
	W (min)	640	1055	1580	1680
Water flow rate	l/h	227	335	514	621
Water pressure drops	kPa	4,6	13,3	11,3	14,8
Air flow rate	m^3/h (max)	247	383	511	613
	m^3/h (med)	194	309	406	529
	m^3/h (min)	130	241	306	371
Number of fans	n.	1	2	2	2
♪ Sound pressure	dB (A) (max)	39,5	36,5	40,0	44,5
	dB (A) (med)	33,5	31,5	34,5	41,5
	dB (A) (min)	26,5	26,5	29,5	34,5
Sound power	dB (A) (max)	48,0	45,0	48,5	53,0
	dB (A) (med)	42,0	40,0	43,0	50,0
	dB (A) (min)	35,0	35,0	38,0	43,0
Water content	l	0,79	1,11	1,48	1,48
Max. motor power	W	25	44	57	67
Max. input current	A	0,12	0,21	0,28	0,35
Max. power with electric resistor (RX)	W	975	1344	1707	2017
Input current with electric resistor	A	4,25	5,86	7,45	8,83
3-row coil connections	ø	1/2"G	1/2"G	3/4"G	3/4"G
1-row coil connections (BV)	ø	1/2"G	1/2"G	1/2"G	1/2"G

Heating mode: see notes and warnings in the technical booklet.

Electricity supply = 230V ~ 50Hz

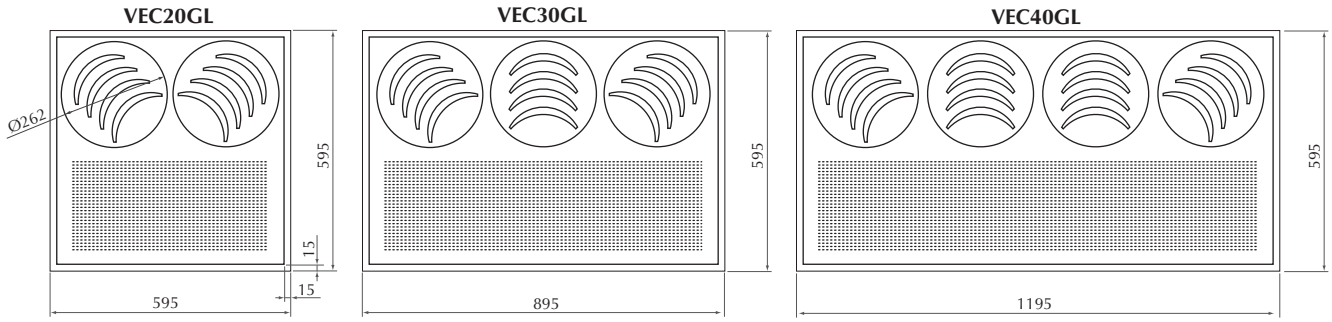
(E) = EUROVENT certificate performance

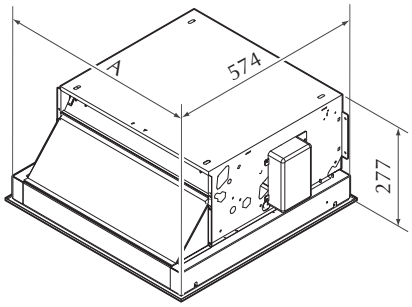
Performance values refer to the following conditions:

♪ Level of sound pressure (A-weighted) measured in the room with volume V = 85 m 3; reverberation time t = 0.5 s; direction factor Q = 2; distance r = 2.5 m.

Cooling:
- room air temperature 27°C D.B. ; 19°C W.B.
- inlet water temp. 7°C
- Dwater t 5°C

Dimensions (mm)





Mod.	VEC VEC	020 20GL	030 30GL	040 40GL	050 40GL
A	mm	574	874	1174	1174
Weight (VEC)	kg	15,5	20,6	24,7	24,7
Weight (VEC GL)	kg	3,7	5,7	7	7

Cod.: SVECUY.02 / 1007

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