

VEC

COANDA effect fan coils Installation in suspended ceilings



Aermec adheres to the EUROVENT Certification Programme. The products concerned appear in the EUROVENT Certified Products Guide.



Characteristics

- VEC:** Fan coil for treating air both in summer. The air is distributed throughout the room via outlets which, thanks to the COANDA effect, draw the air jet towards the ceiling.
- Available in 4 sizes:
 - Installation in suspended ceilings
 - Grille with suction and Coanda effect (obligatory accessory).
 - 3-row coil
 - Low loss of charge in the heat exchange batteries
 - For systems with fixed or variable flow rates
 - EUROVENT certification
 - 3-speed ventilating unit
 - Quiet operation
 - Electric motors with permanently inserted condensers
 - Air filter easy to remove and clean
 - Internal insulation and air filter in fire resistance class 1
 - Extractable Archimedean screws for easy, effective cleaning
 - Plumbing connections can be reversed during installation phase
 - Wide range of controls and accessories
 - Ease of installation and maintenance
 - Full compliance with the accident prevention standards
 - In eventually heating mode refer to the technical manual.

Accessories

Obligatory accessories:

- are essential for unit operation:**
- **VEC_GL:** air suction and delivery grille with Coanda effect adjustable outlets. White RAL 9010.
 - **Control panel:** the characteristics of the control panels are described on the appropriate card.

Accessories:

- **AMP:** Kit for overhang installation.
- **BC5:** Auxiliary condensate drip tray.
- **DSC4:** Condensate drainage device for use when natural run-off is not possible.
- **PCR1:** Galvanised plate protection for the controls and the electrical element.
- **SIT 3-5:** Thermostat Interface Cards. They allow 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 of the network; receives the commands from the selector or the SIT5 card.

SIT5: commands the 3 fan speeds and up to 2 valves (four pipes systems); sends the commands of the thermostat to the fan coils network.

• **SW3:** Water temperature probe that gives the automatic season change feature to electronic thermostats supplied with water-side changeover.

• **SWA:** SWA outside probe accessory (length L = 6m). The probe detects the temperature of the ambient air if connected to the connector

(A) of the panel FMT20AW; the ambient air temperature probe incorporated in the panel is automatically deactivated. It detects the temperature of the water in the system, for ventilation consent, if connected to the connector (W) of the panel FMT20AW. Two SWA probes can be connected to the panel FMT20AW simultaneously.

• **VCF:** Kit consisting of powered 3-way valve, copper connectors and pipes. For 3-row and 1-row coils (BV). Versions with 230V and 24V~50Hz power supply.

• **VCFD:** Kit consisting of powered 2-way valve, copper connectors 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	✓	✓	✓	✓
DSC 4	✓	✓	✓	✓
SIT3	✓	✓	✓	✓
SIT5	✓	✓	✓	✓
PCR1	✓	✓	✓	✓

Accessory	Size			
	VEC20	VEC30	VEC40	VEC50
SW3	✓	✓	✓	✓
SWA	✓	✓	✓	✓
VCF	41	✓	✓	
	42			✓
	44*	✓	✓	✓
	4124	✓	✓	
	4224			✓
VCFD	4424*	✓	✓	✓
	1	✓	✓	
	2			✓
	4*	✓	✓	✓
	124	✓	✓	
	224			✓
	424*	✓	✓	✓

Technical data

		20	30	40	50
Total cooling capacity	W (max)	1320	1950	2985	3610
	W (av)	1085	1645	2470	3170
	W (min)	805	1370	1985	2350
Sensible cooling capacity	W (max)	1085	1535	2410	2595
	W (av)	885	1285	1980	2275
	W (min)	640	1055	1580	1680
Water flow rate	l/h	227	335	514	621
Water pressure drop	kPa	4.6	13.3	11.3	14.8
	m ³ /h (max)	247	383	511	613
air flow rate	m ³ /h (av)	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) (av)	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) (av)	42.0	40.0	43.0	50.0
	dB (A) (min)	35.0	35.0	38.0	43.0
Water contents	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. capacity with electric heater (RX)	W	975	1344	1707	2017
Input current with electric heater	A	4.25	5.86	7.45	8.83
Coil connections 3R	ø	1/2"G	1/2"G	3/4"G	3/4"G
Coil connections 1R (BV)	ø	1/2"G	1/2"G	1/2"G	1/2"G

Power supply = 230V~ 50Hz

(E) = EUROVENT certificate performances

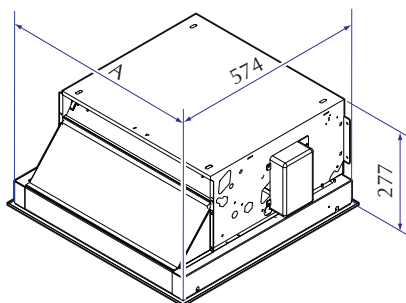
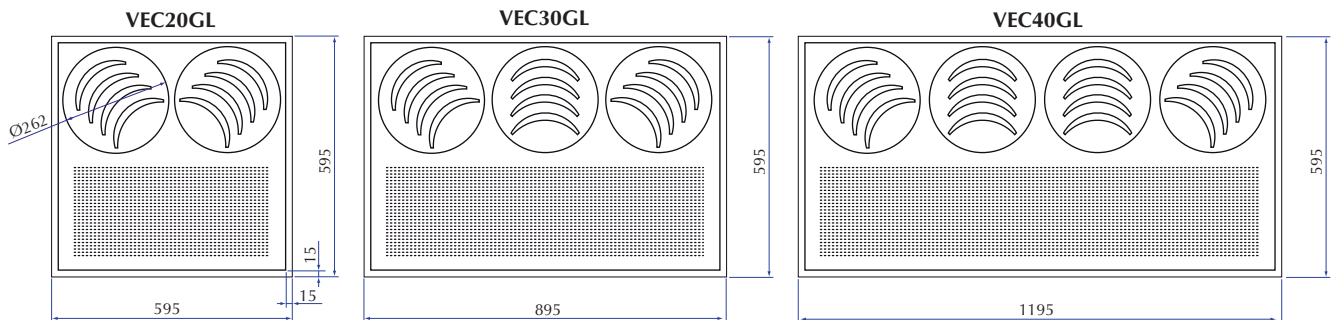
Performance values refer to the following conditions:

- ♪ Sound pressure measured in semi-reverberation chamber of 85m³ and with reverberation time Tr = 0.5s.

■ Cooling:

- room air temperature 27°C D.B. ; 19°C W.B.
- water inlet temperature 7°C
- Δt water 5°C

Dimensions (mm)



Mod.	VEC	020	030	040	050
	VEC	20GL	30GL	40GL	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