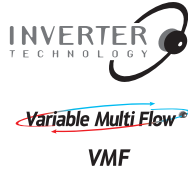


VEC_I

Cassette type fancoil Coanda-effect, with Brushless Inverter motor (EC)
Installation in false ceilings



Aermec participate in the EUROVENT program: FCH the products are present on the site www.eurovent-certification.com



Features

- VEC_I:** 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.
- Installation in false ceilings
- Compatible with VMF System
- Grille with suction and adjustable delivery vents with Coanda effect (compulsory accessory).
- Unit with standard coil (20÷50)
- Unit with increased coil (24÷54)
- Reduced pressure drops across heat exchangers
- For systems with fixed and variable delivery
- Fan unit with Brushless motor (continuous 0-100% speed variation)
- Quiet operation
- Air filter easily removed and cleaned
- Internal insulation and air filter of Class 1 fire resistance
- 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.

Accessori

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 color M9016 = white lacquer similar to Ral 9016).

Accessories:

- BC5:** auxiliary condensate drain tray.
- BV:** Single row hot water coil.
- DSC4:** condensate drainage device for use when natural run-off is not possible.

- 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.
- Control panel and VMF System:** the characteristics are described on the appropriate card.

Accessories for heating mode

- BV:** Single row hot water coil.
- VCF:** the kit contains a motorised 3-way valve with insulating shell, plus coupling and pipes in insulated copper. Versions with 230V and 24V~50Hz power supply.
- VCFD:** Kit consisting of powered 2-way valve, copper couplings and pipes. For 3 row. Versions with 230V and 24V~50Hz power supply.

VEC_I (standard coil)	20	30	40	50	VEC_I (standard coil)	20	30	40	50	VEC_I (standard coil)	20	30	40	50
VEC_I (increased coil)	24	34	44	54	VEC_I (increased coil)	24	34	44	54	VEC_I (increased coil)	24	34	44	54
Compulsory accessories														
VEC20GL	.				VCFD1 (standard coil)	.	.			VMF-SW	.	.	.	.
VEC30GL		.			VCFD2 (increased coil)	.	.	.	.	VMF-SW1	.	.	.	.
VEC40GL			.	.	VCFD124 (standard coil)	.	.			Accessory dedicated to heating mode				
					VCFD224 (increased coil)	.	.	.	.	BV122	(2)(3)	.		
BC5	.	.	.	.	Control panel					BV132	(2)(3)	.		
DSC4 (1)	.	.	.	.	WMT20	.	.	.	.	BV142	(2)(3)		.	.
VCF41 (standard coil)	.	.			VMF-System					VCF44	(2)(4)	.	.	.
VCF42 (increased coil)	.	.	.	.	VMF-E4 / E4D	.	.	.	.	VCF4424	(2)(4)	.	.	.
VCF4124 (standard coil)	.	.			VMF-E19I	.	.	.	.	VCFD4	(2)(4)	.	.	.
VCF4224 (increased coil)	.	.	.	.	VMF-E5B / E5N	.	.	.	.	VCFD424	(2)(4)	.	.	.

(1) DSC4 The accessory is not compatible with the basins BC5, and VMF system.

(2) See notes and warnings in the technical booklet.

(3) Available only unit 20 - 30 - 40 - 50

(4) Accessoires only for coil additioning (BV)

Technical data

VEC I	20			24			30			34			40			44			50			54																																																			
	H	M	L	H	M	L	H	M	L	H	M	L	H	M	L	H	M	L	H	M	L	H	M	L																																																	
Fan speed																																																																									
Heating Performance																																																																									
2 pipe configuration																																																																									
Heating capacity (70°C)	(1)	kW		3,10	2,54	1,87	3,42	2,50	2,07	4,31	3,64	3,03	6,14	5,18	4,31	6,29	5,21	4,21	8,07	6,68	5,41	7,16	6,34	4,76	9,18	8,08	6,06																																														
Water flow rate	(1)	l/h		272	223	164	300	219	181	378	319	266	538	454	378	551	457	369	708	586	474	628	556	417	805	709	532																																														
Pressure drops	(1)	kPa		6,0	4,0	2,0	3,0	2,0	1,0	17,0	13,0	9,0	9,0	7,0	5,0	12,0	9,0	6,0	19,0	14,0	9,0	14,0	11,0	7,0	19,0	15,0	9,0																																														
Heating capacity (45°C)	(2)	kW		1,54	1,26	0,95	1,70	1,38	1,00	2,32	1,81	1,50	3,06	2,57	2,80	3,13	2,59	2,09	4,02	3,32	2,69	3,56	3,15	2,37	4,57	3,69	3,02																																														
Water flow rate	(2)	l/h		268	220	161	541	389	295	203	171	152	530	447	372	543	450	363	697	577	467	618	547	411	792	697	523																																														
Pressure drops	(2)	kPa		6,5	4,5	2,6	3,5	2,5	1,5	9,5	7,0	6,0	9,0	6,8	4,9	12,0	9,0	6,0	19,0	13,0	9,0	14,0	11,0	7,0	18,0	15,0	9,0																																														
Cooling Performance																																																																									
Total cooling capacity	(3)	kW		1,31	1,07	0,80	1,51	1,21	0,88	1,91	1,61	1,35	2,46	2,13	1,79	2,99	2,47	1,99	3,91	3,34	2,55	3,61	3,17	2,35	4,26	3,99	2,98																																														
Sensible cooling capacity	(3)	kW		1,07	0,87	0,64	1,14	0,90	0,67	1,49	1,25	1,03	1,76	1,50	1,26	2,41	1,98	1,58	2,74	2,42	1,91	2,59	2,27	1,68	2,88	2,42	1,77																																														
Cooling capacity (latent)	(3)	kW		0,24	0,20	0,16	0,37	0,31	0,21	0,42	0,36	0,32	0,70	0,63	0,53	0,58	0,49	0,41	1,17	0,92	0,64	1,02	0,90	0,67	1,38	1,57	1,21																																														
Water flow rate	(3)	l/h		227	187	138	262	185	151	335	282	236	425	368	308	513	425	341	672	574	439	621	545	404	737	688	515																																														
Pressure drops	(3)	kPa		5,8	4,4	3,0	3,0	2,0	1,2	13,0	8,0	5,0	19,4	4,6	10,9	11,0	8,0	5,0	22,0	17,0	10,0	15,0	12,0	7,0	30,0	27,0	15,8																																														
Fans																																																																									
Fan - Centrifugal	n°	1			1			2			2			2			2			2			2																																																		
Air flow rate	m³/h	247			194			130			247			167			130			383			309			241			383			309			241			511			406			306			511			406			306			613			529			371			613			529			371		
Sound data																																																																									
Sound power level	(4)	dB(A)		48	42	35	48	42	35	49	43	37	49	43	37	57	43	30	57	43	30	67	46	34	53	43	43																																														
Sound pressure level		dB(A)		40	34	27	40	34	27	41	35	29	41	35	29	49	35	22	49	35	22	59	38	26	45	35	35																																														
Diameter connections																																																																									
Standard coil	Ø	1/2"			3/4"			1/2"			3/4"			3/4"			3/4"			3/4"			3/4"			3/4"																																															
Electrical Features																																																																									
Absorbed power	W	14		9		4		14		9		4		44		33		25		35		16		11		57		43		30		57		43		30		67		46		34		54		31		17																									
Signal 0-10V	%	90		70		48		90		70		48		90		66		58		90		66		58		90		72		54		90		72		54		90		78		56		90		78		56																									
Power supply																									230V~50Hz																																																

EU 2016/2281

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) 45°C/40°C (EUROVENT)

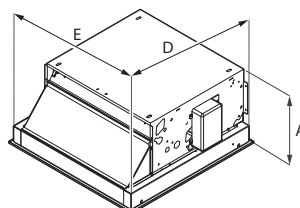
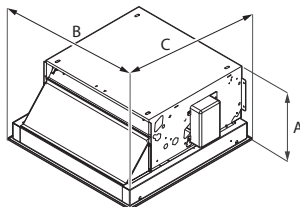
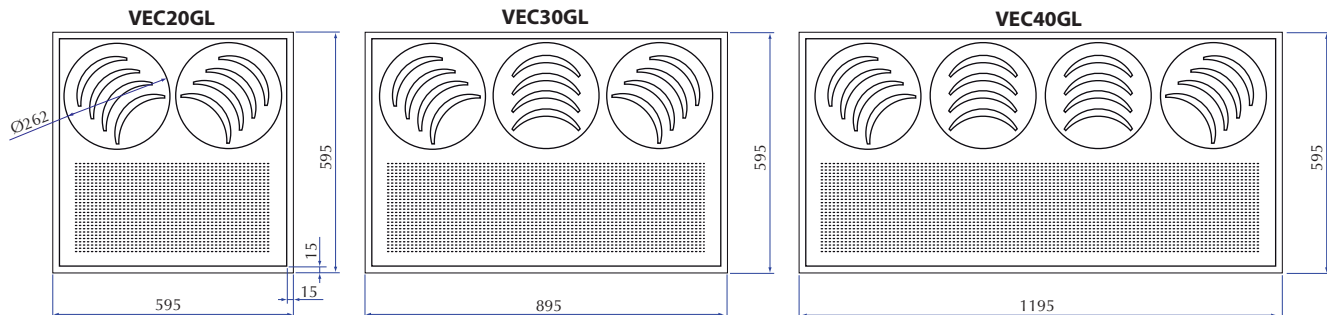
(3) Room air 27°C b.s./19°C b.u.; Water (in/out) 7°C/12°C (EUROVENT)

(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.

Sound pressure level (A-weighted) measured in the room with volume V=100m³, reverberation time t = 0.5 s; Direction factor Q = 2; Distance r = 2.5m

Dimensions (mm)

VEC_GL (Compulsory accessory)



Dimensions VEC_I + VEC_GL (maximum dimensions)

Mod.	VEC_I	20/24	30/34	40/44	50/54
	VEC	20GL	30GL	40GL	40GL
A	mm	283	283	283	283
B	mm	595	895	1195	1195
C	mm	595	595	595	595
Weight (VEC_I)	kg	15,5	20,6	24,7	24,7
Weight (VEC_GL)	kg	3,7	5,7	7	7

Dimensions VEC_I + VEC_GL (Dimensions for installation)

Mod.	VEC_I	20/24	30/34	40/44	50/54
	VEC	20GL	30GL	40GL	40GL
A	mm	283	283	283	283
D	mm	574	574	574	574
E	mm	574	874	1174	174

All specifications are subject to change without prior notice. Although every effort has been made to ensure accuracy, Aermec does not assume responsibility or liability for eventual errors or omissions.

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