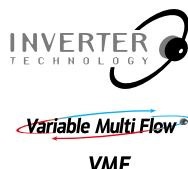


VEC_I

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 RAL 9010.

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					VCFD1 (standard coil)					VMF-SW				
VEC20GL	.				VCFD2 (increased coil)	.	.	.	.	VMF-SW1	.	.	.	.
VEC30GL		.			VCFD124 (standard coil)	.	.			Accessory dedicated to heating mode				
VEC40GL			.	.	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-E18	.	.	.	.	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		
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 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	4	2	3	2	1	17	13	9	9	7	5	12	9	6	19	14	9	14	11	7	19	15	9
Heating capacity (50°C)	(2)	kW	1,88	1,50	1,10	2,02	1,48	1,22	2,56	2,16	1,80	3,61	3,05	2,54	3,74	3,10	2,50	4,81	3,99	3,22	4,28	3,78	2,84	5,45	4,82	3,62
Water flow rate	(2)	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	(2)	kPa	4	3	2	3	1	1	14	10	7	6	5	3	11	8	5	18	13	8	14	11	7	16	14	9
Heating capacity (45°C)	(3)	kW	1,54	1,27	0,93	1,70	1,24	1,03	2,14	1,81	1,51	3,05	2,57	2,15	3,13	2,59	2,09	4,02	3,32	2,69	3,56	3,15	2,37	4,57	4,02	3,02
Water flow rate	(3)	l/h	268	220	161	295	215	178	372	314	262	530	447	372	543	450	363	697	577	467	618	547	411	792	697	523
Pressure drops	(3)	kPa	6	4	2	3	2	1	17	12	9	9	7	5	12	9	6	19	13	9	14	11	7	18	15	9
Cooling Performance																										
Total cooling capacity	(4)	kW	1,32	1,09	0,81	1,52	1,08	0,88	1,95	1,64	1,37	2,47	2,14	1,79	2,99	2,47	1,99	3,91	3,34	2,55	3,61	3,17	2,35	4,28	4,00	3,00
Sensible cooling capacity	(4)	kW	1,08	0,88	0,64	1,15	0,80	0,67	1,53	1,28	1,05	1,78	1,51	1,26	2,41	1,98	1,58	2,74	2,42	1,91	2,59	2,27	1,68	2,91	2,44	1,79
Water flow rate	(4)	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	(4)	kPa	5	3	2	3	2	1	13	10	7	8	6	5	11	8	5	22	17	10	15	12	7	30	27	16
Water content		l	/			/			/			/			/			/			/			/		
Fans																										
Fan	type/n°	centrifugal/1	centrifugal/1			centrifugal/1			centrifugal/2			centrifugal/2			centrifugal/2			centrifugal/2			centrifugal/2			centrifugal/2		
Air flow rate	m³/h	247	194	130	247	194	130	383	309	241	383	309	241	511	406	306	511	406	306	613	529	371	613	529	371	
Sound data																										
Sound power level	(5)	dB(A)	48	42	35	48	39	35	49	43	37	49	43	37	57	43	30	57	43	30	67	46	34	67	46	34
Sound pressure level		dB(A)	40	34	27	40	31	27	41	35	29	41	35	29	49	35	22	49	35	22	59	38	26	59	38	26
Diameter connections																										
Standard coil	Ø	1/2"	1/2"			1/2"			1/2"			1/2"			3/4"			3/4"			3/4"			3/4"		
Additional coil	Ø	/	/			/			/			/			/			/			/			/		
Increased coil	Ø	/	/			/			/			/			/			/			/			/		
Electrical Features																										
Absorbed power	W	12	8	5	12	8	5	10	10	10	10	10	10	10	17	9	6	17	9	6	37	20	8	37	20	8
Max. input current	A	0,11			0,11			0,11			0,11			0,14			0,14			0,3			0,3			
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	V/ph/Hz	230V~50Hz																								
Energy Efficiency classification (EUROVENT)																										
FCEER		B	B			B			A			A			A			A			A			A		
FCCOP	(6)	B	B			B			A			A			A			A			A			A		

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) 50°C; Water flow rate as in cooling mode (EUROVENT)

(3) Room air 20°C b.s.; Water (in/out) 45°C/40°C (EUROVENT)

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

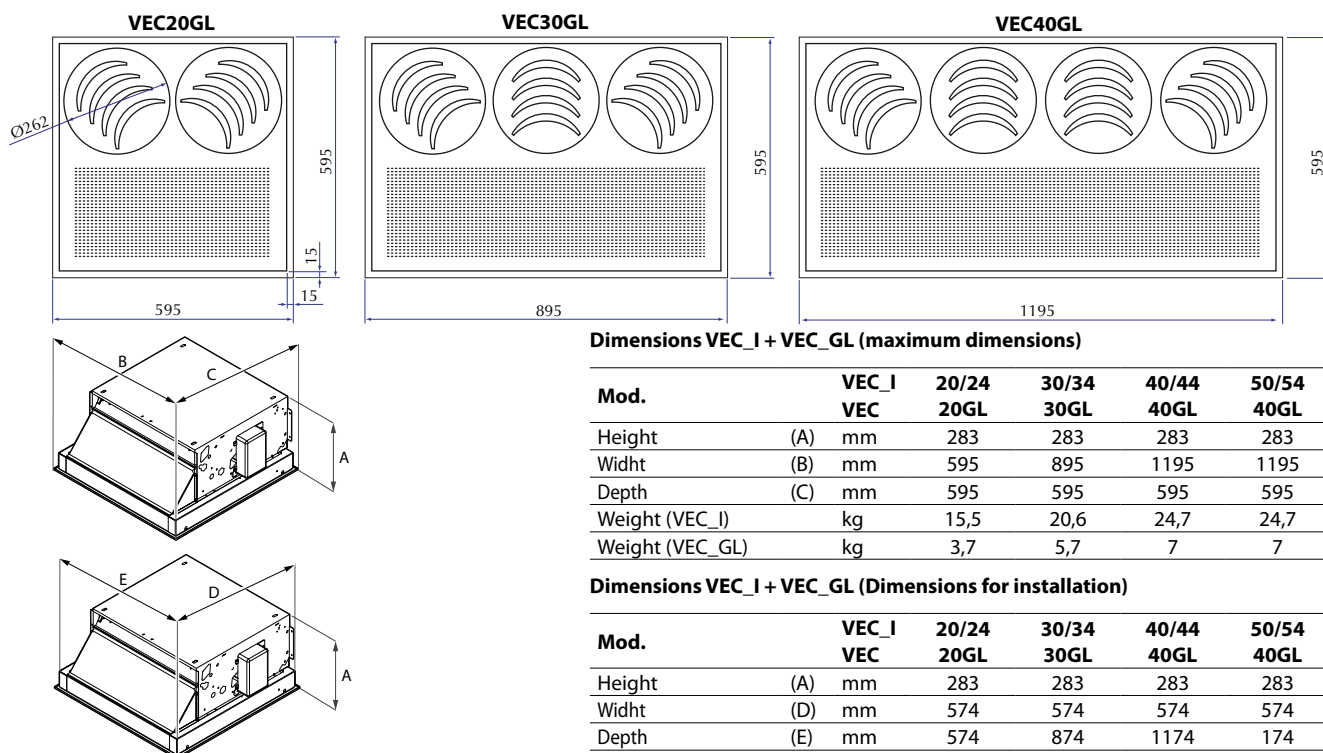
(5) Sound power level on the basis of measurements made in compliance with Eurovent 8/2

(6) FCCOP Related to: Room air 20°C b.s.; Water (in) 50°C; Water flow rate as in cooling mode

Sound pressure level (A-weighted) measured in the room with volume V=85m³, reverberation time t = 0.5 s; Direction factor Q = 2; Distance r = 2.5m

Dimensions (mm)

VEC_GL (Compulsory accessory)



Aermec reserves the right to make all modification deemed necessary for improving the product at any time with any modification of technical data.

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