



MODÍ

Centrifugal fan coil unit



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MODI MODI-ECM	Centrifugal fan coil	Technical Manual	24_04_01_01

INTRODUCTION

General description	4
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CONSTRUCTION FEATURES

Description of the components	5
-------------------------------	---

VERSIONS

2- And 4-pipe fan coil versions	7
---------------------------------	---

GENERAL DIMENSIONS

General dimensions of 2- and 4-pipe fan coil units	8
--	---

Construction features	11
-----------------------	----

TECHNICAL DATA

General technical data for 2- and 4-pipe systems	12
--	----

Operating limits	16
------------------	----

Weights and packaging	16
-----------------------	----

Pressure drops on the water side of the batteries	17
---	----

Flow/head curves	18
------------------	----

Sound spectrum and frequency	21
------------------------------	----

VALVES

2- And 3-way valve kits	22
-------------------------	----

Electrical data for 2- and 3-way valve actuators	23
--	----

Hydraulic data for valves and balancing valves	23
--	----

Position of hydraulic connections for 2- and 3-way valves	24
---	----

Valve and balancing valve pressure drops	25
--	----

ACCESSORIES

Auxiliary coil	26
----------------	----

Adjustable supply grille	26
--------------------------	----

Auxiliary drain pan	26
---------------------	----

Electric heater	27
-----------------	----

Condensate drain pump	27
-----------------------	----

Germicidal lamp	28
-----------------	----

Front air filter kit	28
----------------------	----

MOTOR COVER PANEL FOR BOTTOM FILTER REMOVAL	28
---	----

Iso coarse 55% air filter	29
---------------------------	----

Pair of built-in feet	29
-----------------------	----

Pair of floor fixing feet	30
---------------------------	----

Pair of abs plinths	30
---------------------	----

Pair of pre-painted plinths	31
-----------------------------	----

Pair of ABS plinths with rear panel	31
-------------------------------------	----

90° Plenum	32
------------	----

Right plenum	32
--------------	----

Telescopic extension	32
----------------------	----

Telescopic delivery plenum	30
----------------------------	----

Anti-vibration joint	33
----------------------	----

Supply grille	33
---------------	----

Intake grille	33
---------------	----

Plenum with circular connections	34
----------------------------------	----

Pre-painted rear closing panel	34
--------------------------------	----

Pre-painted lower closure without grille	35
--	----

Pre-painted lower closure with grille	35
---------------------------------------	----

Plinth with front air intake	35
------------------------------	----

Sheet metal niche	36
-------------------	----

Painted sheet metal panel for niche	37
-------------------------------------	----

INTRODUCTION

GENERAL DESCRIPTION

The Modi series fan coil unit is a hydronic terminal unit operating with hot water for winter heating and chilled water for summer cooling. The units are reversible and can be installed either horizontally or vertically. Versions are available for exposed installation or recessed installation in a niche with a cover panel or within a false ceiling. Thanks to numerous accessories, all installation requirements can be accommodated.

The Modi fan coil unit combines high performance and functionality with the elegance of simplicity. Its modern design, combined with the use of metallic materials and minimal use of polymers, ensures long-lasting functionality while emphasizing structural robustness and sustainability.

The linearity of the design, together with these features, enhances the installation of the unit in both commercial and residential environments, such as offices, hotels, shops, and public spaces in general.

PLUS



COMFORT WITH MAXIMUM SILENCE:

The double-inlet centrifugal fans guarantee high air flow rates with a low number of revolutions, limiting noise emissions in all working conditions.



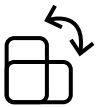
HIGH PERFORMANCE:

Designed to optimize thermodynamic performance, the air-water heat exchanger allows for high cooling and heating outputs, minimizing the electrical consumption of the fans and the longitudinal dimensions of the fan coil unit.



HIGH ENERGY SAVING:

The high energy savings are made possible above all by the ECM version, thanks to the use of a brushless motor with inverter which allows for a further reduction in energy consumption.



HORIZONTAL/VERTICAL REVERSIBILITY:

The same version can be installed both horizontally and vertically, without additional accessories. In fact, the special shape of the tray under the heat exchanger allows condensation droplets to be collected both horizontally and vertically.



CUSTOMIZABLE CONFIGURATION:

The complete range of versions and accessories, both aerodynamic and hydraulic, greatly simplifies fan coil installation. The valves, available in a wide range of versions and motors, can be supplied factory-installed to further optimize the fan coil's integration into the system.



SIMPLIFIED MAINTENANCE:

By removing just two screws, it is possible to remove the entire casing and carry out the necessary maintenance on all the components inside the fan coil, from the hydraulic to the electrical ones.

DESCRIPTION OF COMPONENTS

FRONT CASING

The front casing is made of 0.8 mm galvanized steel sheet pre-coated with a PVC film, resistant to rust, corrosion, and many chemical agents, in smooth RAL 9003 color.
The supply grille is integrated on the upper part of the casing and is made of ABS plastic with a fire reaction class HB according to UL94.

The A-M version, on the other hand, has a continuous casing with a bottom return air intake and a lower filter position. The casing attachment to the supporting frame is extremely simple: first at the bottom using bayonet joints, then with two concealed screws easily accessible on the top of the unit after opening the inspection flaps.

FOR VERSION A-M / A-MF

The supply grilles are 180° reversible, allowing the airflow direction to be adjusted to meet user comfort needs. The side panels are made of ABS, whose shape enhances the harmony of the metal casing.
The lower part of the A-MF version's casing features a front intake grille that also includes the filter. The A-M version, on the other hand, has a continuous casing and the intake is lower, as is the position of the filter.

FOR VERSION V-M

The standard supply grilles are fixed; adjustable grilles are available as accessories, allowing the direction of the airflow into the room to be adjusted.

SUPPORTING FRAME

The supporting frame is made of 0.8 mm Z200 galvanized steel sheet with appropriate ribs to increase robustness. The structure is internally lined with 3 mm closed-cell anti-condensation insulation, certified according to DIN EN ISO 846, with a Euroclass fire reaction rating of B-s2,d0 according to EN 13501-1. On two opposite sides, specially shaped anchoring slots are provided to facilitate installation.

CONDENSATE COLLECTION AND DRAINAGE

Beneath the heat exchanger, the main condensate collection tray is made of injection-molded ABS with a UL94 HB fire reaction class. The tray design allows condensate collection in both vertical and horizontal installations. It is inclined to minimize the risk of condensate pooling inside.

CONTROL VALVES

Various valve configurations are available, including 2- and 3-way ON-OFF, modulating, and automatic balancing valves, complete with fittings, seals, and ball or balancing valves. 2-way, 3-way, or balancing valve kits can be supplied pre-installed on the unit, saving time and installation costs.

HEAT EXCHANGER

Anchored to the supporting frame via the side panels, the heat exchanger is made of copper tubes with aluminum fins mechanically expanded onto the tubes. Side panels are made of Z200 galvanized steel. Collectors are made of brass and include female gas connections and air/drain vent valves, which are easily accessible. Hydraulic connections are standard on the left side; right-side connections are available upon request.

CONSTRUCTION FEATURES

DESCRIPTION OF COMPONENTS

FILTER

Located on the lower part of the unit for easy access and removal, the filter consists of a galvanized steel frame containing a polypropylene mesh filter element. Filtration class is ISO COARSE 30%; higher filtration class optional filters are available. The filter is locked/unlocked with two elements that prevent accidental removal, ensuring user safety. If undamaged or not excessively dirty, the filter can be cleaned by vacuuming, washing with appropriate products, and drying.

FAN ASSEMBLY

Consists of double-inlet centrifugal fans with horizontally oriented aluminum blades, statically and dynamically balanced. The asynchronous electric motor is single-phase with overload protection, offering six speed settings (three connected via terminal block), and is directly coupled to the fans via elastic supports for quiet operation. ECM versions are equipped with innovative brushless motors with a 0–10V control signal, providing precise, modulated airflow control and limiting energy consumption to the actual load. ECM fans operate at minimum speed when the control signal is 1V and reach maximum speed at 10V. To stop the fans, the control signal must be brought to 0V. Control signal values between 0V–1V or above 10V are not allowed.

ELECTRICAL CONNECTIONS

The electrical panel is located on the side opposite the hydraulic connections and is easily accessible once the casing is removed. It is made of 0.8 mm Z200 galvanized steel.

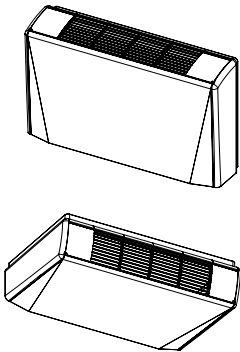
PACKAGING

The unit is packaged in a dedicated cardboard box.

2-PIPE AND 4-PIPE FAN COIL UNITS

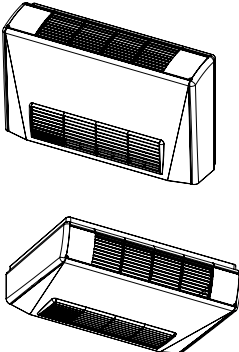
MODì A-M

Centrifugal Fan Coil Unit
Vertical/Horizontal with bottom
return air cabinet
Supply grilles reversible 180°



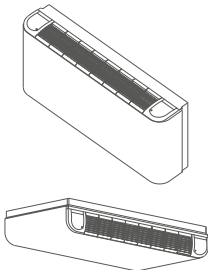
MODì A-MF

Centrifugal Fan Coil Unit
Vertical/Horizontal with Cabinet
Front Return Air
Supply grilles reversible 180°



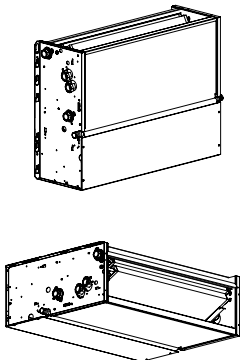
MODì V-M

Centrifugal Fan Coil Unit
Vertical/Horizontal with bottom
return air cabinet
Fixed grills (optional adjustable grills)



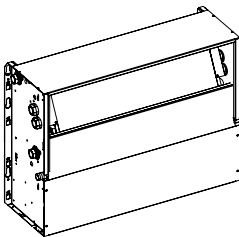
MODì I

Centrifugal Fan Coil Unit
Vertical/Horizontal Recessed Installation
Bottom Return Air



MODì IF

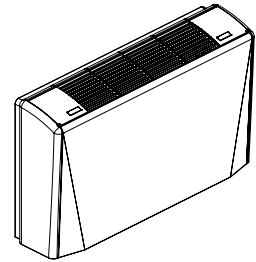
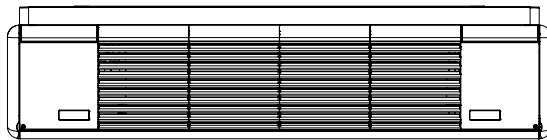
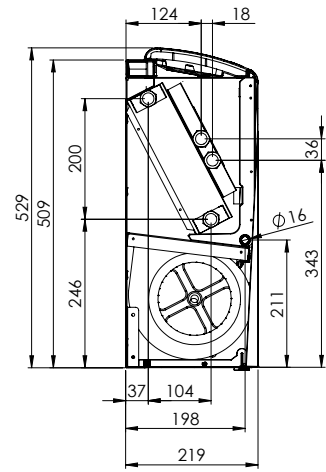
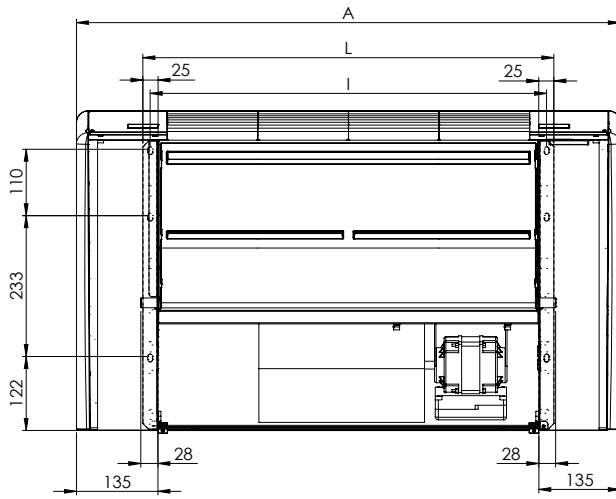
Centrifugal Fan Coil Unit
Vertical Recessed Installation
Front Air Supply



GENERAL DIMENSIONS

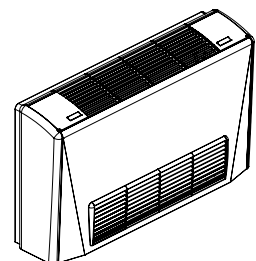
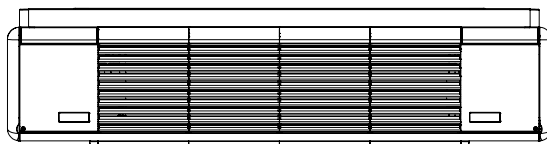
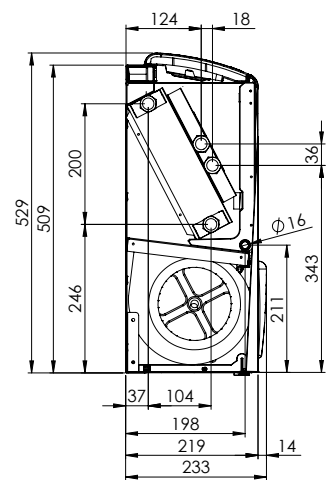
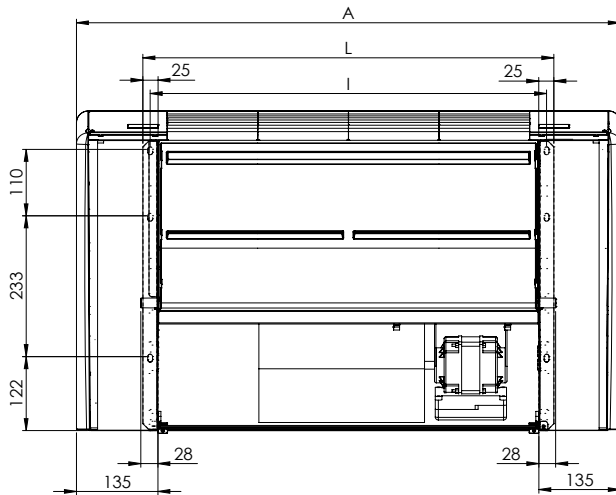
VERTICAL AND HORIZONTAL VERSIONS WITH CABINET (LOWER AIR INTAKE)

MOD. A-M



VERTICAL AND HORIZONTAL VERSIONS WITH CABINET (FRONT AIR INLET)

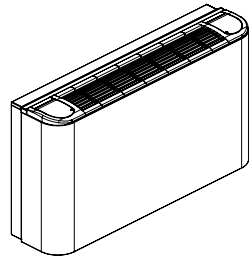
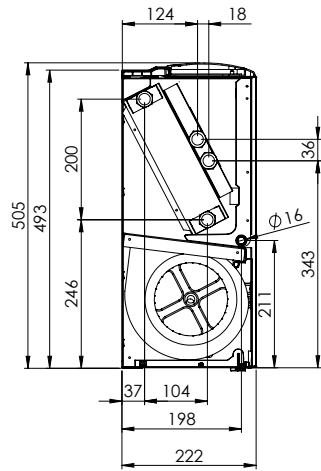
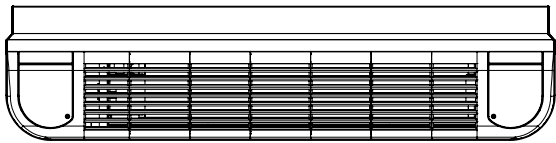
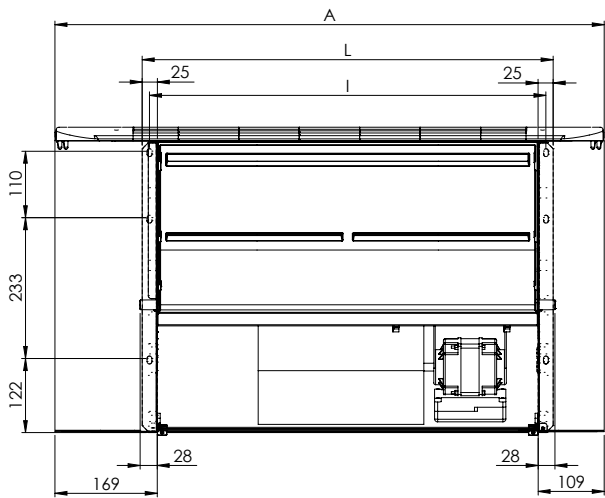
MOD. A-MF



GENERAL DIMENSIONS

VERTICAL AND HORIZONTAL VERSIONS WITH CABINET (LOWER AIR INTAKE)

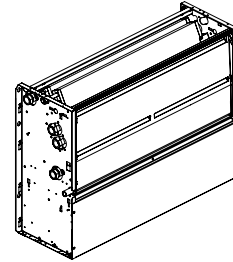
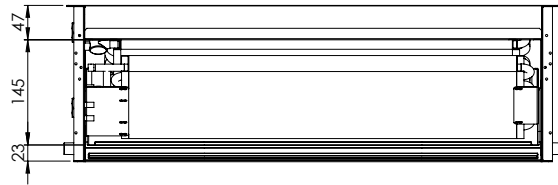
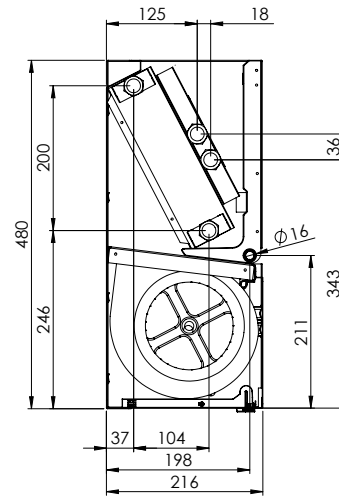
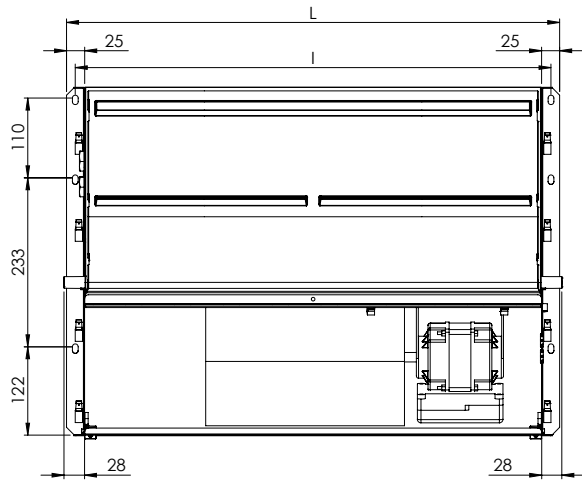
MOD. V-M



GENERAL DIMENSIONS

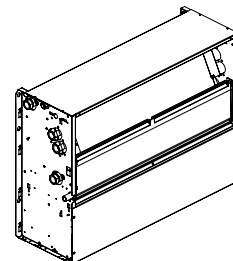
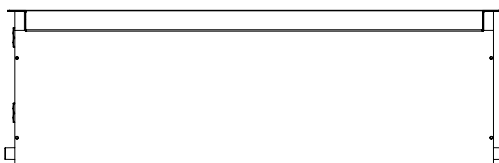
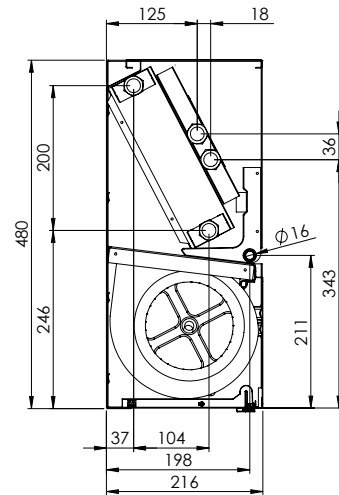
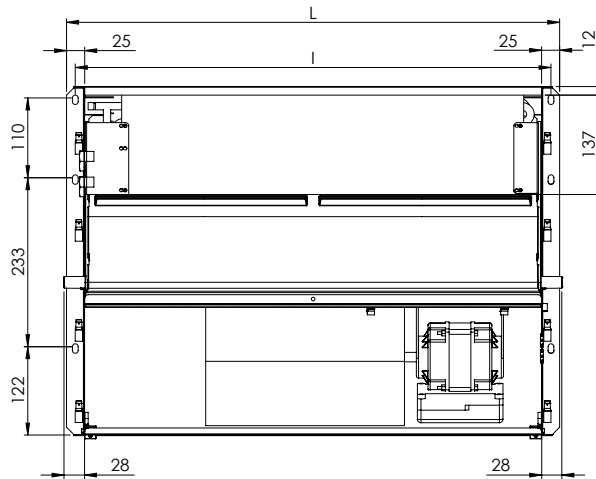
HORIZONTAL AND VERTICAL BUILT-IN VERSIONS (LOWER AIR INTAKE)

MOD. I



VERTICAL BUILT-IN VERSIONS (FRONT AIR DELIVERY)

MOD. IF



GENERAL DIMENSIONS

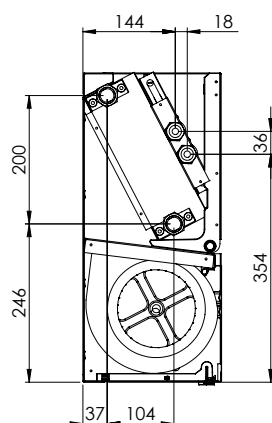
GENERAL DIMENSIONS VERSIONS A-M / A-MF / I / IF		10	20	30	40	50	60	70	80	90
Length (with cabinet)	A (mm)	600	750	900	900	1050	1200	1350	1350	1500
Length (without cabinet)	L (mm)	380	530	680	680	830	980	1130	1130	1280
Number of grids		2	3	4	4	5	6	7	7	8
Wheelbase	I (mm)	356	506	656	656	806	956	1106	1106	1256

GENERAL DIMENSIONS VERSIONS V-M		10	20	30	40	50	60	70	80	90
Length (with cabinet)	A (mm)	610	760	910	910	1060	1210	1360	1360	1510
Length (without cabinet)	L (mm)	380	530	680	680	830	980	1130	1130	1280
Number of grids		4	5	7	7	8	10	11	11	13
Wheelbase	I (mm)	356	506	656	656	806	956	1106	1106	1256

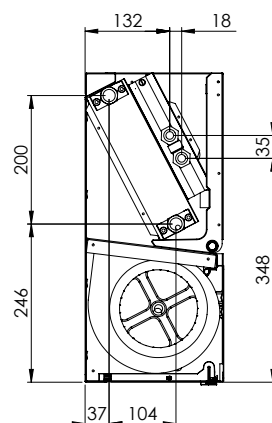
CONSTRUCTION FEATURES

Construction features			10	20	30	40	50	60	70	80	90
Number of fans			1	1	1	2	2	2	2	2	2
Number of exchangers (2 pipes)			1	1	1	1	1	1	1	1	1
Number of exchangers (4 pipes)			2	2	2	2	2	2	2	2	2
3-row main coil	Hydraulic connections		1/2"	1/2"	1/2"	1/2"	1/2"	3/4"	3/4"	3/4"	3/4"
	Water content	Liters	0,5	0,8	1,2	1,3	1,5	1,8	2,1	2,2	2,4
4-row main coil	Hydraulic connections		1/2"	1/2"	1/2"	1/2"	3/4"	3/4"	3/4"	3/4"	3/4"
	Water content	Liters	0,7	1,1	1,6	1,7	2,0	2,4	2,8	2,9	3,2
1-row auxiliary coil	Hydraulic connections		1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
	Water content	Liters	0,1	0,2	0,3	0,3	0,4	0,5	0,6	0,6	0,7
2-row auxiliary coil	Hydraulic connections		1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
	Water content	Liters	0,2	0,4	0,6	0,6	0,8	1,0	1,2	1,2	1,4

4R + 1R



3R + 2R



TECHNICAL DATA

2 tubi - pipes - tubes Leiter - tubos			3R scambiatore - coil - batterie Wärmetauscher - batería			10	20	30	40	50	60	70	80	90
 7/12 °C 27 °C d.b. 19 °C w.b. 	Potenza frigorifera totale Total cooling capacity Puissance frigorifique totale Kälteleistung gesamt Potencia frigorífica total	(E)	kW	6	1,34	2,19	3,10	3,60	4,61	5,63	6,46	7,53	8,94	
			kW	5	1,08	1,79	2,55	2,97	3,57	4,82	5,47	6,36	7,70	
			kW	4	0,87	1,31	2,02	2,39	3,20	4,21	4,48	5,91	7,25	
			kW	3	0,76	1,15	1,80	2,07	2,95	3,39	3,59	5,58	6,73	
			kW	2	0,63	0,90	1,59	1,63	1,99	2,62	2,81	4,68	5,30	
			kW	1	0,53	0,81	1,35	1,39	1,69	2,23	2,39	3,97	4,51	
	Potenza frigorifera sensibile Sensible cooling capacity Puissance frigorifique sensible Sensible Kälteleistung Potencia frigorífica total sensible	(E)	kW	6	1,04	1,54	2,13	2,53	3,29	3,96	4,57	5,46	6,55	
			kW	5	0,81	1,23	1,73	2,03	2,47	3,32	3,80	4,50	5,49	
			kW	4	0,64	0,87	1,34	1,60	2,18	2,85	3,05	4,13	5,15	
			kW	3	0,56	0,76	1,19	1,38	2,00	2,26	2,39	3,87	4,71	
			kW	2	0,45	0,59	1,03	1,06	1,30	1,72	1,84	3,18	3,63	
			kW	1	0,37	0,53	0,87	0,88	1,12	1,46	1,56	2,67	3,04	
	Portata acqua Water flow Débit d'eau Wassermenge Flujo de agua		l/h	6	236	386	545	633	808	988	1133	1319	1568	
			l/h	5	190	314	448	522	628	845	962	1117	1353	
			l/h	4	153	230	355	418	561	738	786	1036	1273	
			l/h	3	134	201	315	362	516	593	629	977	1180	
			l/h	2	111	157	278	286	348	458	494	820	932	
			l/h	1	94	141	236	243	295	389	419	696	791	
	Perdite di carico lato acqua Water pressure drop Pertes charge côté eau Wassersseitiger Druckverlust Caídas de presión lado agua	(E)	kPa	6	4,8	20,8	36,0	47,7	34,8	52,6	41,7	54,4	53,8	
			kPa	5	3,2	14,4	25,3	33,7	22,1	39,7	31,0	40,4	41,3	
			kPa	4	2,4	9,4	18,7	27,5	18,4	31,3	22,2	35,4	37,2	
			kPa	3	1,9	7,8	15,4	21,3	15,4	21,0	14,6	30,4	30,9	
			kPa	2	1,3	5,7	12,7	14,6	12,0	14,5	10,5	23,7	21,8	
			kPa	1	1,0	4,7	9,4	10,9	8,9	10,8	7,8	17,7	16,2	
 45/40 °C 20 °C 	Potenza termica Heating capacity Puissance thermique Heizleistung Energía térmica	(E)	kW	6	1,55	2,47	3,24	3,86	5,03	6,16	7,20	8,59	10,67	
			kW	5	1,19	1,93	2,52	3,07	3,71	4,98	5,77	6,87	8,53	
			kW	4	0,91	1,34	1,94	2,35	3,33	4,31	4,63	6,34	7,99	
			kW	3	0,78	1,15	1,69	2,01	2,95	3,42	3,59	5,90	7,22	
			kW	2	0,63	0,86	1,45	1,56	1,90	2,46	2,72	4,83	5,52	
			kW	1	0,51	0,78	1,23	1,32	1,62	2,10	2,31	4,10	4,69	
	Portata acqua Water flow Débit d'eau Wassermenge Flujo de agua		l/h	6	259	416	546	651	851	1040	1216	1453	1804	
			l/h	5	201	324	425	518	625	839	971	1159	1438	
			l/h	4	153	225	328	396	562	727	780	1069	1348	
			l/h	3	132	194	285	339	498	578	605	995	1218	
			l/h	2	106	146	245	263	321	416	458	814	929	
			l/h	1	86	131	209	224	273	354	390	693	791	
	Perdite di carico lato acqua Water pressure drop Pertes charge côté eau Wassersseitiger Druckverlust Caídas de presión lado agua	(E)	kPa	6	6,6	20,8	33,3	41,4	34,5	53,5	41,9	56,6	61,2	
			kPa	5	4,2	13,3	21,3	27,5	19,8	36,3	28,0	37,7	40,7	
			kPa	4	3,0	8,9	16,0	21,0	16,3	26,9	19,4	32,3	35,7	
			kPa	3	2,3	7,5	13,1	16,5	14,5	17,8	14,8	27,3	28,4	
			kPa	2	1,6	5,7	10,7	11,4	10,4	15,7	12,4	20,7	19,3	
			kPa	1	1,1	4,7	8,0	8,5	7,8	11,7	9,3	15,5	14,5	
Portata aria Air flow Débit d'air Luftstrom Flujo de aire		m3/h	6	248	364	490	607	798	950	1106	1395	1643		
		m3/h	5	182	273	376	460	559	759	871	1086	1288		
		m3/h	4	145	182	278	343	480	627	662	969	1184		
		m3/h	3	121	155	242	287	432	472	494	889	1062		
		m3/h	2	94	116	204	211	261	343	367	698	767		
		m3/h	1	74	103	169	172	218	284	304	565	618		
Livello di potenza sonora Sound power level Niveau de puissance sonore Schall-Leistungspegel Nivel de potencia acústica	(E)	dB(A)	6	45	47	49	50	53	56	59	61	65		
		dB(A)	5	43	45	47	48	50	54	56	59	64		
		dB(A)	4	39	40	44	43	47	51	51	57	62		
		dB(A)	3	36	37	41	40	43	44	43	54	59		
		dB(A)	2	31	32	37	34	36	39	39	51	54		
		dB(A)	1	28	29	30	30	32	32	32	45	45		
Livello di pressione sonora Sound pressure level Niveau de pression sonore Schall-Druckpegel Nivel de presión sonora		dB(A)	6	36	38	40	41	44	47	50	52	56		
		dB(A)	5	34	36	38	39	41	45	47	50	55		
		dB(A)	4	30	31	35	34	38	42	42	48	53		
		dB(A)	3	27	28	32	31	34	35	34	45	50		
		dB(A)	2	22	23	28	25	27	30	30	42	45		
		dB(A)	1	19	20	21	21	23	23	23	36	36		
Assorbimento elettrico motore Motor electrical consumption Consommation électrique du moteur Elektrischer Verbrauch des Motors Consumo eléctrico del motor	(E)	W	6	39	53	67	78	86	109	131	142	177		
		W	5	26	41	51	59	76	99	119	134	166		
		W	4	21	25	39	46	64	81	94	121	154		
		W	3	18	21	33	37	55	59	73	109	139		
		W	2	14	16	28	28	35	43	58	95	114		
		W	1	12	14	21	22	28	34	47	76	89		
Max corrente motore Maximum motor current Courant maximal du moteur Maximaler Motorstrom Corriente máxima del motor	A		0,18	0,24	0,31	0,36	0,39	0,50	0,60	0,65	0,81			
Alimentazione Power supply Alimentation électrique Stromversorgung Alimentación eléctrica	V/ph/Hz		230V - 1ph - 50Hz											

- **Unità standard a bocca libera:** pressione statica esterna = 0 Pa / **Livello di pressione sonora:** considerata 9 dB(A) inferiore rispetto alla potenza sonora in una stanza di 100 m³ con un tempo di riverbero di 0,5 sec.
- **Standard unit with free outlet:** external static pressure = 0 Pa / **Sound pressure level:** 9 dB(A) lower than the sound power level for a room of 100 m³ with a reverberation time of 0,5 sec.
- **Unité standard avec sortie libre:** pression statique externe = 0 Pa / **Niveau de pression sonore:** considéré de 9 dB(A) plus faible que le niveau de puissance acoustique d'une pièce de 100 m³, avec un temps de réverbération de 0,5 sec.
- **Standard Einheit mit offenem Auslass:** externer statischer Druck = 0 Pa / **Schall-Druckpegel:** Schall-Druckpegel: 9 dB (A) unter dem Schalldruck in einem Raum von 100 m³ mit einer Nachhallzeit von 0,5 s.
- **Unidad estándar con salida libre:** presión estática externa = 0 Pa / **Nivel de presión sonora:** se considera 9 dB (A) inferior a la potencia acústica en una sala de 100 m³ con un tiempo de reverberación de 0,5 seg.

velocità cablate / wired speed / vitesse câblée / verkabelte Geschwindigkeitsstufe / velocidades cableadas (E) = Eurovent

TECHNICAL DATA

4 tubi - pipes - tubes Leiter - tubos				(3+1)R		scambiatore - coil - batterie Wärmetauscher - batería		10	20	30	40	50	60	70	80	90
 7/12 °C 27 °C d.b. 19 °C w.b. 	Potenza frigorifera totale Total cooling capacity Puissance frigorifique totale Kälteleistung gesamt Potencia frigorífica total	(E)	kW	6	-	2,19	3,10	3,60	4,61	5,63	6,46	7,53	8,94			
			kW	5	-	1,79	2,55	2,97	3,57	4,82	5,47	6,36	7,70			
			kW	4	-	1,31	2,02	2,39	3,20	4,21	4,48	5,91	7,25			
			kW	3	-	1,15	1,80	2,07	2,95	3,39	3,59	5,58	6,73			
			kW	2	-	0,90	1,59	1,63	1,99	2,62	2,81	4,68	5,30			
	Potenza frigorifera sensibile Sensible cooling capacity Puissance frigorifique sensible Sensible Kälteleistung Potencia frigorífica total sensible	(E)	kW	1	-	0,81	1,35	1,39	1,69	2,23	2,39	3,97	4,51			
			kW	6	-	1,54	2,13	2,53	3,29	3,96	4,57	5,46	6,55			
			kW	5	-	1,23	1,73	2,03	2,47	3,32	3,80	4,50	5,49			
			kW	4	-	0,87	1,34	1,60	2,18	2,85	3,05	4,13	5,15			
			kW	3	-	0,76	1,19	1,38	2,00	2,26	2,39	3,87	4,71			
	Portata acqua Water flow Débit d'eau Wassermenge Flujo de agua	(E)	kW	2	-	0,59	1,03	1,06	1,30	1,72	1,84	3,18	3,63			
			kW	1	-	0,53	0,87	0,88	1,12	1,46	1,56	2,67	3,04			
			l/h	6	-	386	545	633	808	988	1133	1319	1568			
			l/h	5	-	314	448	522	628	845	962	1117	1353			
			l/h	4	-	230	355	418	561	738	786	1036	1273			
Perdite di carico lato acqua Water pressure drop Pertes charge côté eau Wasserseitiger Druckverlust Caídas de presión lado agua	(E)	l/h	3	-	201	315	362	516	593	629	977	1180				
		l/h	2	-	157	278	286	348	458	494	820	932				
		l/h	1	-	141	236	243	295	389	419	696	791				
		kPa	6	-	20,8	36,0	47,7	34,8	52,6	41,7	54,4	53,8				
		kPa	5	-	14,4	25,3	33,7	22,1	39,7	31,0	40,4	41,3				
 65/55 °C 20 °C 	Potenza termica Heating capacity Puissance thermique Heizleistung Energía térmica	(E)	kPa	4	-	9,4	18,7	27,5	18,4	31,3	22,2	35,4	37,2			
			kPa	3	-	7,8	15,4	21,3	15,4	21,0	14,6	30,4	30,9			
			kPa	2	-	5,7	12,7	14,6	12,0	14,5	10,5	23,7	21,8			
			kPa	1	-	4,7	9,4	10,9	8,9	10,8	7,8	17,7	16,2			
			kW	6	-	1,89	2,45	2,96	3,81	4,46	5,37	6,11	7,70			
	Portata acqua Water flow Débit d'eau Wassermenge Flujo de agua	(E)	kW	5	-	1,55	1,99	2,48	3,06	3,81	4,55	5,21	6,58			
			kW	4	-	1,18	1,63	2,02	2,77	3,41	3,83	4,88	6,01			
			kW	3	-	1,03	1,44	1,79	2,60	2,86	3,18	4,67	5,62			
			kW	2	-	0,75	1,26	1,44	1,79	2,18	2,54	4,00	4,51			
			kW	1	-	0,68	1,07	1,23	1,52	1,85	2,16	3,40	3,83			
	Perdite di carico lato acqua Water pressure drop Pertes charge côté eau Wasserseitiger Druckverlust Caídas de presión lado agua	(E)	l/h	6	-	158	205	248	320	374	451	513	647			
			l/h	5	-	130	167	208	257	319	381	436	552			
			l/h	4	-	99	137	170	233	286	321	409	503			
			l/h	3	-	87	121	150	219	241	267	392	471			
			l/h	2	-	63	106	122	151	183	214	336	378			
	Portata aria Air flow Débit d'air Luftstrom Flujo de aire	(E)	l/h	1	-	58	90	104	128	156	182	286	322			
			kPa	6	-	8,4	13,1	16,4	30,0	26,3	37,0	49,6	61,2			
			kPa	5	-	5,9	9,1	11,9	20,1	19,8	27,4	37,0	46,0			
			kPa	4	-	4,6	7,3	9,7	17,2	16,4	20,2	32,8	42,9			
			kPa	3	-	4,1	6,2	8,0	14,8	11,7	13,8	28,6	35,9			
	Livello di potenza sonora Sound power level Niveau de puissance sonore Schall-Leistungspegel Nivel de potencia acústica	(E)	kPa	2	-	3,6	5,4	6,1	8,9	8,1	10,1	22,8	25,4			
			kPa	1	-	3,0	4,0	4,6	6,7	6,1	7,6	17,1	19,0			
			m3/h	6	-	364	490	607	798	950	1106	1395	1643			
			m3/h	5	-	273	376	460	559	759	871	1086	1288			
			m3/h	4	-	182	278	343	480	627	662	969	1184			
	Livello di pressione sonora Sound pressure level Niveau de pression sonore Schall-Druckpegel Nivel de presión sonora	(E)	m3/h	3	-	155	242	287	432	472	494	889	1062			
			m3/h	2	-	116	204	211	261	343	367	698	767			
			m3/h	1	-	103	169	172	218	284	304	565	618			
			dB(A)	6	-	47	49	50	53	56	59	61	65			
			dB(A)	5	-	45	47	48	50	54	56	59	64			
Assorbimento elettrico motore Motor electrical consumption Consommation électrique du moteur Elektrischer Verbrauch des Motors Consumo eléctrico del motor	(E)	dB(A)	4	-	40	44	43	47	51	51	57	62				
		dB(A)	3	-	37	41	40	43	44	43	54	59				
		dB(A)	2	-	32	37	34	36	39	39	51	54				
		dB(A)	1	-	29	30	30	32	32	32	45	45				
		dB(A)	6	-	38	40	41	44	47	50	52	56				
	Max corrente motore Maximum motor current Courant maximal du moteur Maximaler Motorstrom Corriente máxima del motor	(E)	dB(A)	5	-	36	38	39	41	45	47	50	55			
			dB(A)	4	-	31	35	34	38	42	42	48	53			
			dB(A)	3	-	28	32	31	34	35	34	45	50			
			dB(A)	2	-	23	28	25	27	30	30	42	45			
			dB(A)	1	-	20	21	21	23	23	23	36	36			
	Alimentazione Power supply Alimentation électrique Stromversorgung Alimentación eléctrica	(E)	W	6	-	53	67	78	86	109	131	142	177			
			W	5	-	41	51	59	76	99	119	134	166			
			W	4	-	25	39	46	64	81	94	121	154			
			W	3	-	21	33	37	55	59	73	109	139			
			W	2	-	16	28	28	35	43	58	95	114			
		(E)	W	1	-	14	21	22	28	34	47	76	89			
			A	-	0,24	0,31	0,36	0,39	0,50	0,60	0,65	0,81				
			V/ph/Hz						230V - 1ph - 50Hz							

- Unità standard a bocca libera: pressione statica esterna = 0 Pa / Livello di pressione sonora: considerata 9 dB(A) inferiore rispetto alla potenza sonora in una stanza di 100 m³ con un tempo di riverbero di 0,5 sec.
 - Standard unit with free outlet: external static pressure = 0 Pa / Sound pressure level: 9 dB(A) lower that the sound power level for a room of 100 m³ with a reverberation time of 0,5 sec.
 - Unité standard avec sortie libre: pression statique externe = 0 Pa / Niveau de pression sonore: considéré de 9 dB(A) plus faible que le niveau de puissance acoustique d'une pièce de 100 m³, avec un temps de réverbération de 0,5 sec.
 - Standard Einheit mit offenem Auslass: externer statischer Druck = 0 Pa / Schall-Druckpegel: Schall-Druckpegel: 9 dB (A) unter dem Schalldruck in einem Raum von 100 m³ mit einer Nachhallzeit von 0,5 s.
 - Unidad estándar con salida libre: presión estática externa = 0 Pa / Nivel de presión sonora: se considera 9 dB (A) inferior a la potencia acústica en una sala de 100 m³ con un tiempo de reverberación de 0,5 seg.

velocità cablate / wired speed / vitesse câblée / verkabelte Geschwindigkeitsstufe / velocidades cableadas (E) = Eurovent

TECHNICAL DATA

2 tubi - pipes - tubes
Leiter - tubos

3R scambiatore - coil - batterie
Wärmetauscher - batería

Motore ECM - ECM motor Moteur ECM - ECM-Motor - Motor ECM				10	20	30	40	50	60	70	80	90			
 7/12 °C 27 °C d.b. 19 °C w.b. 	Potenza frigorifera totale Total cooling capacity Puissance frigorifique totale Kälteleistung gesamt Potencia frigorífica total	(E)	kW	6	-	2,22	3,21	3,69	4,75	5,91	6,74	7,74	9,01		
			kW	5	-	1,82	2,67	3,07	3,62	4,85	5,54	6,40	7,66		
			kW	4	-	1,28	2,00	2,41	3,21	4,24	4,51	5,92	7,24		
			kW	3	-	1,10	1,78	2,08	2,65	3,34	3,82	5,40	6,43		
			kW	2	-	0,90	1,55	1,65	2,00	2,62	2,82	4,66	5,33		
			kW	1	-	0,40	0,82	0,82	1,16	1,55	1,79	1,86	2,59		
	Potenza frigorifera sensibile Sensible cooling capacity Puissance frigorifique sensible Sensible Kälteleistung Potencia frigorífica total sensible	(E)	kW	6	-	1,57	2,23	2,61	3,40	4,19	4,80	5,63	6,63		
			kW	5	-	1,25	1,83	2,13	2,52	3,35	3,86	4,52	5,46		
			kW	4	-	0,85	1,34	1,63	2,20	2,89	3,07	4,15	5,13		
			kW	3	-	0,73	1,18	1,39	1,79	2,24	2,58	3,75	4,51		
			kW	2	-	0,59	1,02	1,09	1,32	1,73	1,86	3,19	3,66		
			kW	1	-	0,25	0,52	0,52	0,75	1,00	1,16	1,21	1,70		
	Portata acqua Water flow Débit d'eau Wassermenge Flujo de agua	(E)	l/h	6	-	387	559	643	827	1029	1173	1354	1577		
			l/h	5	-	317	465	533	628	841	962	1118	1338		
			l/h	4	-	222	346	418	556	735	781	1031	1263		
			l/h	3	-	191	308	360	458	578	661	938	1118		
			l/h	2	-	157	269	286	346	453	487	809	924		
			l/h	1	-	70	142	142	202	269	310	322	447		
 45/40 °C 20 °C 	Perdite di carico lato acqua Water pressure drop Pertes charge côté eau Wasserseitiger Druckverlust Caídas de presión lado agua	(E)	kPa	6	-	20,9	37,7	49,1	36,4	56,6	44,3	57,1	54,5		
			kPa	5	-	14,6	27,0	35,0	22,1	39,4	31,0	40,5	40,5		
			kPa	4	-	8,9	18,0	27,5	18,1	31,1	22,0	35,1	36,7		
			kPa	3	-	7,3	14,9	21,1	12,8	20,1	15,8	28,4	28,2		
			kPa	2	-	5,7	12,0	14,6	11,9	14,2	10,3	23,1	21,5		
			kPa	1	-	1,3	3,8	4,2	4,5	5,6	4,6	4,4	5,8		
	Potenza termica Heating capacity Puissance thermique Heizleistung Energía térmica	(E)	kW	6	-	2,47	3,31	3,91	5,14	6,39	7,42	8,82	10,74		
			kW	5	-	1,93	2,60	3,12	3,68	4,91	5,72	6,85	8,42		
			kW	4	-	1,28	1,88	2,33	3,27	4,25	4,55	6,26	7,90		
			kW	3	-	1,09	1,64	1,98	2,59	3,30	3,73	5,61	6,79		
			kW	2	-	0,86	1,39	1,54	1,87	2,41	2,65	4,71	5,41		
			kW	1	-	0,39	0,74	0,77	1,09	1,43	1,69	1,87	2,62		
	Portata acqua Water flow Débit d'eau Wassermenge Flujo de agua	(E)	l/h	6	-	418	562	663	874	1086	1262	1494	1817		
			l/h	5	-	328	442	531	627	837	975	1162	1425		
			l/h	4	-	217	320	397	559	726	777	1064	1340		
			l/h	3	-	185	280	337	443	564	638	956	1156		
			l/h	2	-	146	236	264	319	412	453	804	923		
			l/h	1	-	65	125	131	186	245	289	320	448		
	Perdite di carico lato acqua Water pressure drop Pertes charge côté eau Wasserseitiger Druckverlust Caídas de presión lado agua	(E)	kPa	6	-	21,0	35,1	42,9	36,1	55,2	44,8	59,5	62,1		
			kPa	5	-	13,5	22,8	28,7	19,9	34,5	28,2	37,9	40,1		
			kPa	4	-	8,5	15,5	21,0	16,1	26,8	19,3	32,1	35,3		
			kPa	3	-	7,1	12,8	16,4	12,3	17,2	13,8	25,6	26,1		
			kPa	2	-	5,7	10,2	11,4	10,3	15,5	12,2	20,3	19,1		
			kPa	1	-	1,3	3,3	3,2	3,9	6,1	5,4	3,9	5,2		
	Portata aria Air flow Débit d'air Luftstrom Flujo de aire	(E)	m3/h	6	-	368	512	628	827	1013	1166	1454	1666		
			m3/h	5	-	278	396	480	560	755	870	1086	1273		
			m3/h	4	-	174	271	344	476	626	658	963	1168		
			m3/h	3	-	145	234	284	369	460	531	840	987		
			m3/h	2	-	116	197	213	262	340	362	690	760		
			m3/h	1	-	45	95	95	140	183	214	225	307		
	Livello di potenza sonora Sound power level Niveau de puissance sonore Schall-Leistungspegel Nivel de potencia acústica	(E)	dB(A)	6	-	47	49	51	54	57	59	62	65		
			dB(A)	5	-	45	47	49	50	55	56	60	64		
			dB(A)	4	-	41	43	45	47	51	51	58	62		
			dB(A)	3	-	38	39	41	42	44	45	55	58		
			dB(A)	2	-	33	36	35	35	40	39	52	54		
			dB(A)	1	-	21	20	19	20	23	25	25	25		
Livello di pressione sonora Sound pressure level Niveau de pression sonore Schall-Druckpegel Nivel de presión sonora	(E)	dB(A)	6	-	38	40	42	45	48	50	53	56			
		dB(A)	5	-	36	38	40	41	46	47	51	55			
		dB(A)	4	-	32	34	36	38	42	42	49	53			
		dB(A)	3	-	29	30	32	33	35	36	46	49			
		dB(A)	2	-	24	27	26	26	31	30	43	45			
		dB(A)	1	-	12	11	10	11	14	16	16	16			
Assorbimento elettrico motore Motor electrical consumption Consommation électrique du moteur Elektrischer Verbrauch des Motors Consumo eléctrico del motor	(E)	W	6	-	34	46	52	59	69	79	132	167			
		W	5	-	24	29	32	33	45	51	99	127			
		W	4	-	15	16	19	25	32	30	75	103			
		W	3	-	13	13	15	17	18	21	55	69			
		W	2	-	11	11	12	12	12	12	39	39			
		W	1	-	8	8	8	8	9	9	12	12			
Max corrente motore Maximum motor current Courant maximal du moteur Maximaler Motorstrom Corriente máxima del motor				A	-	0,30	0,40	0,45	0,51	0,60	0,69	1,15	1,45		
Alimentazione Power supply Alimentation électrique Stromversorgung Alimentación eléctrica				V/ph/Hz	230V - 1ph - 50Hz										
Tensione di controllo velocità (0/10V) Speed control voltage (0/10V) Tension de contrôle de vitesse (0/10V) Drehzahlregelspannung (0/10V) Voltaje de control de velocidad (0/10V)				(E)	V	6	-	10,0	10,0	10,0	10,0	10,0	10,0	10,0	
					V	5	-	7,5	7,5	7,5	6,5	7,2	7,2	7,3	7,4
					V	4	-	4,6	4,8	5,2	5,4	5,8	5,2	6,4	6,7
					V	3	-	3,8	4,0	4,2	4,0	4,0	4,0	5,5	5,5
					V	2	-	3,0	3,2	3,0	2,6	2,7	2,4	4,4	4,0
					V	1	-	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0

- **Unità standard a bocca libera:** pressione statica esterna = 0 Pa / **Livello di pressione sonora:** considerata 9 dB(A) inferiore rispetto alla potenza sonora in una stanza di 100 m³ con un tempo di riverbero di 0,5 sec.

- **Standard unit with free outlet:** external static pressure = 0 Pa / **Sound pressure level:** 9 dB(A) lower than the sound power level for a room of 100 m³ with a reverberation time of 0,5 sec.

- **Unité standard avec sortie libre:** pression statique externe = 0 Pa / **Niveau de pression sonore:** considéré de 9 dB(A) plus faible que le niveau de puissance acoustique d'une pièce de 100 m³, avec un temps de réverbération de 0,5 sec.

- **Standard Einheit mit offenem Auslass:** externer statischer Druck = 0 Pa / **Schall-Druckpegel:** 9 dB(A) unter dem Schalldruck in einem Raum von 100 m³ mit einer Nachhallzeit von 0,5 s.

- **Unidad estándar con salida libre:** presión estática externa = 0 Pa / **Nivel de presión sonora:** se considera 9 dB(A) inferior a la potencia acústica en una sala de 100 m³ con un tiempo de reverberación de 0,5 seg.

(E) = Eurovent

TECHNICAL DATA

4 tubi - pipes - tubes (3+1)R scambiatore - coil - batterie
Leiter - tubos Wärmetauscher - batería

Motore ECM - ECM motor Moteur ECM - ECM-Motor - Motor ECM				10	20	30	40	50	60	70	80	90	
 7/12 °C 27 °C d.b. 19 °C w.b. 	Potenza frigorifera totale Total cooling capacity Puissance frigorifique totale Kälteleistung gesamt Potencia frigorífica total	(E)	kW	6	-	2,22	3,21	3,69	4,75	5,91	6,74	7,74	9,01
			kW	5	-	1,82	2,67	3,07	3,62	4,85	5,54	6,40	7,66
			kW	4	-	1,28	2,00	2,41	3,21	4,24	4,51	5,92	7,24
			kW	3	-	1,10	1,78	2,08	2,65	3,34	3,82	5,40	6,43
			kW	2	-	0,90	1,55	1,65	2,00	2,62	2,82	4,66	5,33
			kW	1	-	0,40	0,82	0,82	1,16	1,55	1,79	1,86	2,59
	Potenza frigorifera sensibile Sensible cooling capacity Puissance frigorifique sensible Sensible Kälteleistung Potencia frigorífica total sensible	(E)	kW	6	-	1,57	2,23	2,61	3,40	4,19	4,80	5,63	6,63
			kW	5	-	1,25	1,83	2,13	2,52	3,35	3,86	4,52	5,46
			kW	4	-	0,85	1,34	1,63	2,20	2,89	3,07	4,15	5,13
			kW	3	-	0,73	1,18	1,39	1,79	2,24	2,58	3,75	4,51
			kW	2	-	0,59	1,02	1,09	1,32	1,73	1,86	3,19	3,66
			kW	1	-	0,25	0,52	0,52	0,75	1,00	1,16	1,21	1,70
	Portata acqua Water flow Débit d'eau Wasseremenge Flujo de agua	(E)	l/h	6	-	387	559	643	827	1029	1173	1354	1577
			l/h	5	-	317	465	533	628	841	962	1118	1338
			l/h	4	-	222	346	418	556	735	781	1031	1263
			l/h	3	-	191	308	360	458	578	661	938	1118
			l/h	2	-	157	269	286	346	453	487	809	924
			l/h	1	-	70	142	142	202	269	310	322	447
	Perdite di carico lato acqua Water pressure drop Pertes charge côté eau Wasserseitiger Druckverlust Caídas de presión lado agua	(E)	kPa	6	-	20,9	37,7	49,1	36,4	56,6	44,3	57,1	54,5
			kPa	5	-	14,6	27,0	35,0	22,1	39,4	31,0	40,5	40,5
			kPa	4	-	8,9	18,0	27,5	18,1	31,1	22,0	35,1	36,7
			kPa	3	-	7,3	14,9	21,1	12,8	20,1	15,8	28,4	28,2
			kPa	2	-	5,7	12,0	14,6	11,9	14,2	10,3	23,1	21,5
			kPa	1	-	1,3	3,8	4,2	4,5	5,6	4,6	4,4	5,8
 65/55 °C 20 °C 	Potenza termica Heating capacity Puissance thermique Heizleistung Energía térmica	(E)	kW	6	-	1,88	2,49	2,99	3,89	4,62	5,53	6,27	7,75
			kW	5	-	1,55	2,05	2,51	3,03	3,75	4,50	5,19	6,48
			kW	4	-	1,13	1,57	2,00	2,72	3,35	3,75	4,81	5,92
			kW	3	-	0,98	1,40	1,76	2,28	2,75	3,29	4,43	5,27
			kW	2	-	0,75	1,20	1,43	1,76	2,12	2,47	3,89	4,41
			kW	1	-	0,35	0,64	0,71	1,03	1,26	1,58	1,55	2,13
	Portata acqua Water flow Débit d'eau Wasseremenge Flujo de agua	(E)	l/h	6	-	159	210	253	329	391	468	528	652
			l/h	5	-	131	173	213	257	319	383	437	547
			l/h	4	-	96	133	170	231	285	320	407	501
			l/h	3	-	83	119	150	195	235	281	376	447
			l/h	2	-	64	102	122	150	181	211	331	375
			l/h	1	-	29	54	61	87	108	135	132	182
	Perdite di carico lato acqua Water pressure drop Pertes charge côté eau Wasserseitiger Druckverlust Caídas de presión lado agua	(E)	kPa	6	-	8,4	13,6	16,8	31,5	28,5	39,7	52,1	62,1
			kPa	5	-	6,0	9,6	12,4	20,2	19,8	27,6	37,2	45,2
			kPa	4	-	4,4	7,1	9,7	17,0	16,4	20,1	32,6	42,5
			kPa	3	-	3,9	6,1	8,0	12,4	11,3	15,0	26,7	32,8
			kPa	2	-	3,6	5,2	6,1	8,8	8,0	9,9	22,3	25,1
			kPa	1	-	0,9	1,7	1,7	3,3	3,1	4,4	4,3	6,8
	Portata aria Air flow Débit d'air Luftstrom Flujo de aire	(E)	m3/h	6	-	368	512	628	827	1013	1166	1454	1666
			m3/h	5	-	278	396	480	560	755	870	1086	1273
			m3/h	4	-	174	271	344	476	626	658	963	1168
			m3/h	3	-	145	234	284	369	460	531	840	987
			m3/h	2	-	116	197	213	262	340	362	690	760
			m3/h	1	-	45	95	95	140	183	214	225	307
Livello di potenza sonora Sound power level Niveau de puissance sonore Schall-Leistungspegel Nivel de potencia acústica	(E)	dB(A)	6	-	47	49	51	54	57	59	62	65	
		dB(A)	5	-	45	47	49	50	55	56	60	64	
		dB(A)	4	-	41	43	45	47	51	51	58	62	
		dB(A)	3	-	38	39	41	42	44	45	55	58	
		dB(A)	2	-	33	36	35	35	40	39	52	54	
		dB(A)	1	-	21	20	19	20	23	25	25	25	
Livello di pressione sonora Sound pressure level Niveau de pression sonore Schall-Druckpegel Nivel de presión sonora	(E)	dB(A)	6	-	38	40	42	45	48	50	53	56	
		dB(A)	5	-	36	38	40	41	46	47	51	55	
		dB(A)	4	-	32	34	36	38	42	42	49	53	
		dB(A)	3	-	29	30	32	33	35	36	46	49	
		dB(A)	2	-	24	27	26	26	31	30	43	45	
		dB(A)	1	-	12	11	10	11	14	16	16	16	
Assorbimento elettrico motore Motor electrical consumption Consommation électrique du moteur Elektrischer Verbrauch des Motors Consumo eléctrico del motor	(E)	W	6	-	34	46	52	59	69	79	132	167	
		W	5	-	24	29	32	33	45	51	99	127	
		W	4	-	15	16	19	25	32	30	75	103	
		W	3	-	13	13	15	17	18	21	55	69	
		W	2	-	11	11	12	12	12	12	39	39	
		W	1	-	8	8	8	8	9	9	12	12	
Max corrente motore Maximum motor current Courant maximal du moteur Maximaler Motorstrom Corriente máxima del motor	(E)	A	-	-	0,30	0,40	0,45	0,51	0,60	0,69	1,15	1,45	
		A	-	-	0,30	0,40	0,45	0,51	0,60	0,69	1,15	1,45	
Alimentazione Power supply Alimentation électrique Stromversorgung Alimentación eléctrica	(E)	V/ph/Hz	-	-	-	-	-	-	-	-	-	-	
		V/ph/Hz	-	-	-	-	-	-	-	-	-	-	
Tensione di controllo velocità (0/10V) Speed control voltage (0/10V) Tension de contrôle de vitesse (0/10V) Drehzahlregelspannung (0/10V) Voltaje de control de velocidad (0/10V)	(E)	V	6	-	10,0	10,0	10,0	10,0	10,0	10,0	10,0	10,0	
		V	5	-	7,5	7,5	7,5	6,5	7,2	7,2	7,3	7,4	
		V	4	-	4,6	4,8	5,2	5,4	5,8	5,2	6,4	6,7	
		V	3	-	3,8	4,0	4,2	4,0	4,0	4,0	5,5	5,5	
		V	2	-	3,0	3,2	3,0	2,6	2,7	2,4	4,4	4,0	
		V	1	-	1,0	1,0	1,0	1,0	1,0	1,0	1,0	1,0	

- **Unità standard a bocca libera:** pressione statica esterna = 0 Pa / **Livello di pressione sonora:** considerata 9 dB(A) inferiore rispetto alla potenza sonora in una stanza di 100 m³ con un tempo di riverbero di 0,5 sec.
Standard unit with free outlet: external static pressure = 0 Pa / **Sound pressure level:** 9 dB(A) lower than the sound power level for a room of 100 m³ with a reverberation time of 0,5 sec.
Unité standard avec sortie libre: pression statique externe = 0 Pa / **Niveau de pression sonore:** considéré de 9 dB(A) plus faible que le niveau de puissance acoustique d'une pièce de 100 m³, avec un temps de réverbération de 0,5 sec.
Standard Einheit mit offenem Auslass: externer statischer Druck = 0 Pa / **Schall-Druckpegel:** 9 dB (A) unter dem Schalldruck in einem Raum von 100 m³ mit einer Nachhallzeit von 0,5 s.
Unidad estándar con salida libre: presión estática externa = 0 Pa / **Nivel de presión sonora:** se considera 9 dB (A) inferior a la potencia acústica en una sala de 100 m³ con un tiempo de reverberación de 0,5 seg.

(E) = Eurovent

24_04_01_01

Technical Manual

Centrifugal fan coil

MODI | MODI-ECM

TECHNICAL DATA

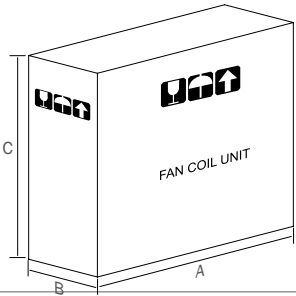
WORKING LIMITS

Limiti di funzionamento <i>Working limits</i>	10 - 20 - 30 - 40 - 50 - 60 - 70 - 80 - 90
Tensione di alimentazione / <i>Supply voltage</i>	230V (+/-10%) – 1ph – 50Hz
Temperatura aria ambiente / <i>Ambient air temperature</i>	Min. 5 °C – Max. 35 °C
Massima umidità aria ambiente / <i>Maximum ambient air humidity</i>	65%
Massima pressione di esercizio acqua / <i>Max water pressure</i>	8 Bar
Massima temperatura acqua / <i>Max water temperature</i>	80 °C
Minima temperatura acqua / <i>Min water temperature</i>	5 °C

- **Riscaldamento:** Per evitare fenomeni di stratificazione dell'aria ambiente, si consiglia di non alimentare l'unità con una temperatura acqua superiore ai 65°C.
- **Raffreddamento:** Per evitare formazione di condensa sulle superfici esterne dell'unità, soprattutto in condizioni di elevata umidità ambiente, si raccomanda di interrompere il flusso dell'acqua refrigerata tramite una elettrovalvola quando il ventilatore non è in funzione.
- **Heating:** To avoid stratification of the ambient air, it is recommended not to supply the unit with a water temperature above 65 ° C.
- **Cooling:** To avoid condensation forming on the external surfaces of the unit, especially in conditions of high ambient humidity, it is recommended to interrupt the flow of chilled water via a solenoid valve when the fan is not in operation.

WEIGHTS AND PACKAGING

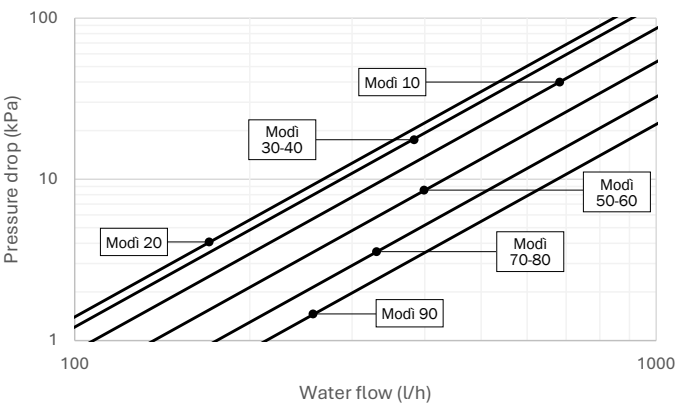
	dimensioni <i>dimension</i>	peso netto <i>net weight</i>	peso lordo <i>gross weight</i>	bancale <i>palette</i>		
	[mm] (AxBxC)	[kg]	[kg]	[mm] L x P	[n.] unità - <i>units</i>	[kg] tot.
MOD. 10	610 x 240 x 560	13	15	1200 x 800	15	240
MOD. 20	760 x 240 x 560	17	19	1200 x 800	15	300
MOD. 30	910 x 240 x 560	19	21	1300 x 900	15	330
MOD. 40	910 x 240 x 560	20	22	1300 x 900	15	345
MOD. 50	1060 x 240 x 560	23	25	1200 x 1000	12	315
MOD. 60	1210 x 240 x 560	26	28	1200 x 1000	12	351
MOD. 70	1360 x 240 x 560	30	33	1500 x 1000	12	411
MOD. 80	1360 x 240 x 560	31	34	1500 x 1000	12	423
MOD. 90	1510 x 240 x 560	36	39	1500 x 1000	12	483



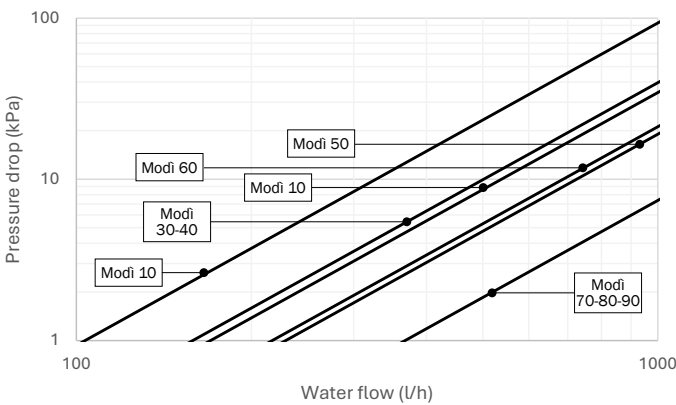
PRESSURE DROPS ON THE WATER SIDE OF THE BATTERIES

Pressure drops refer to an average water temperature of 10 °C for 3- and 4-row coils and 60 °C for the 1- or 2-row auxiliary coil.

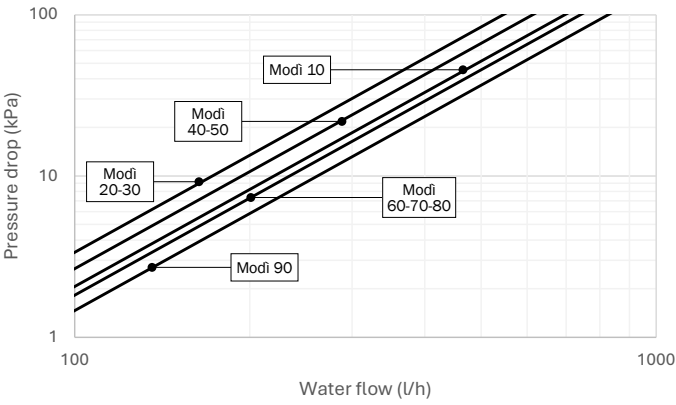
3-ROW COIL



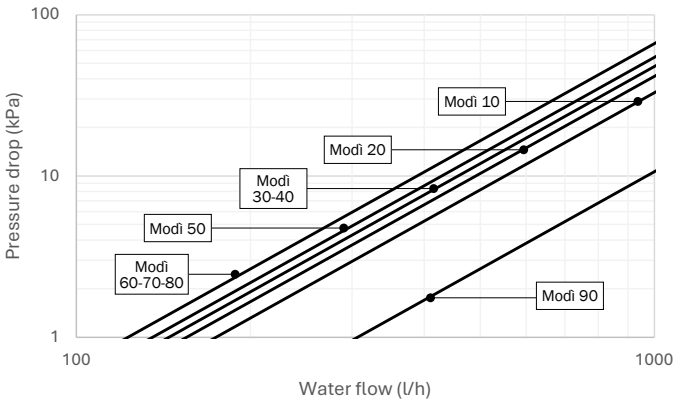
4-ROW COIL



1-RAW AUXILIARY COIL



2-ROW AUXILIARY COIL



TECHNICAL DATA

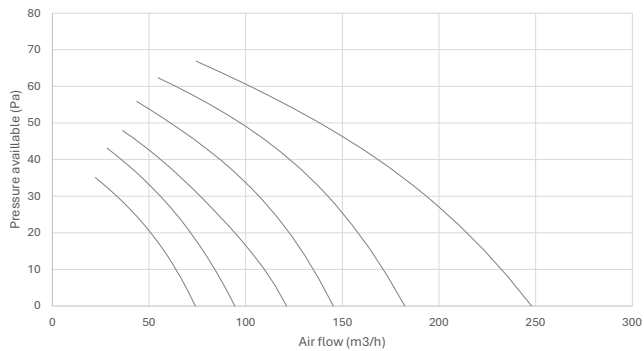
FLOW RATE/HEAD CURVES

When the fan coil unit is connected to an air intake and/or distribution duct, the pressure losses in the ducts cause a reduction in the fan airflow. If the pressure losses are excessive, the airflow of the fan coil unit may become too low, and the electric motor connected to the fans could be damaged.

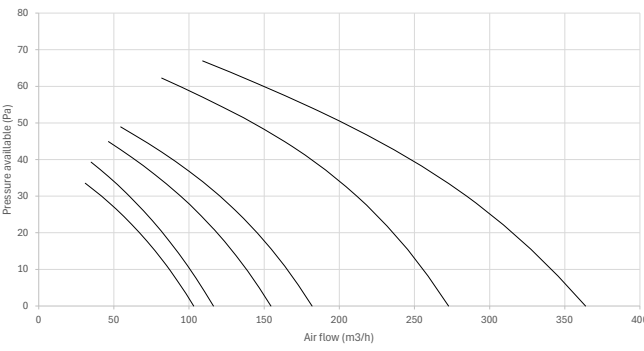
The maximum allowable static pressure for each fan coil unit speed corresponds to the operating point at half the airflow of the free-blow operating point at that speed.

It is therefore recommended to operate the fan coil unit only at static pressure values below the maximum allowable limits.

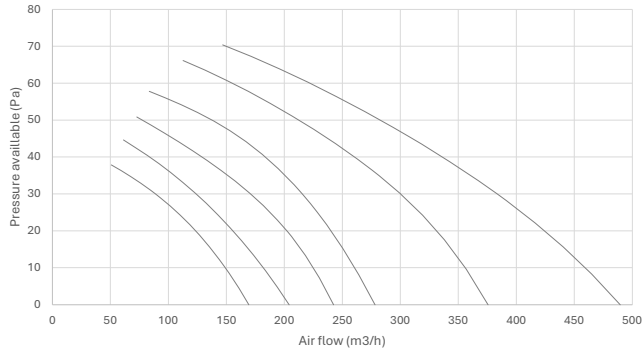
Modì 10



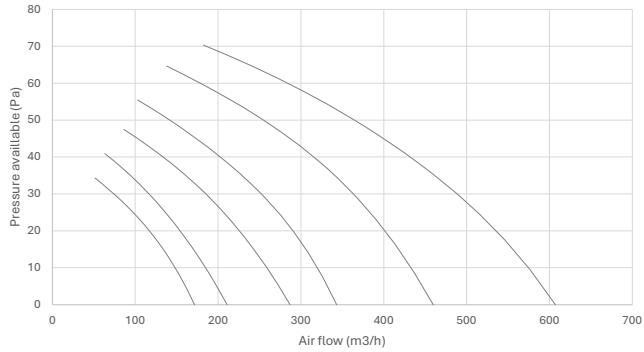
Modì 20



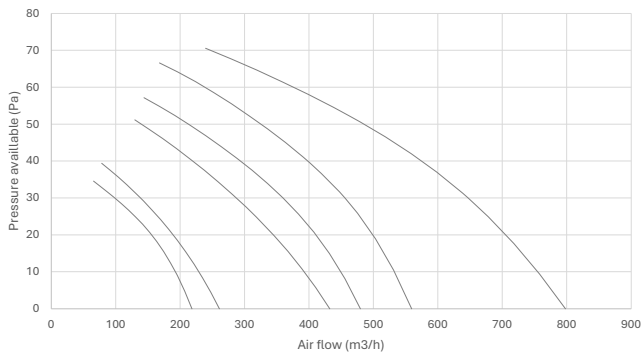
Modì 30



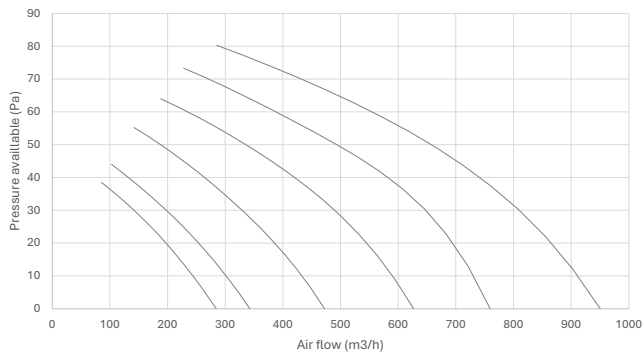
Modì 40



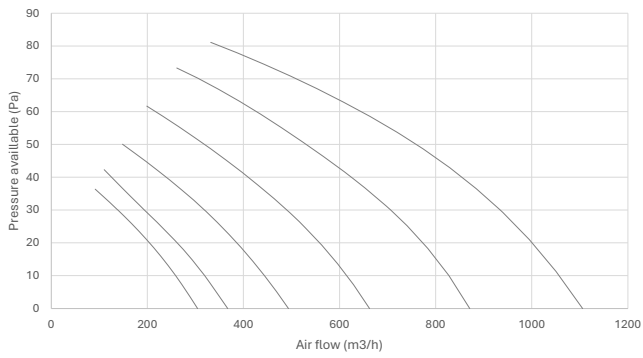
Modì 50



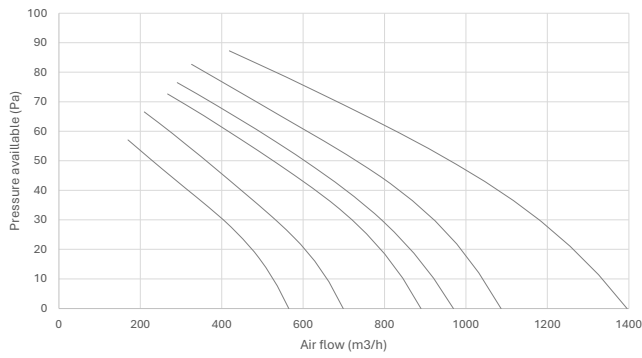
Modì 60



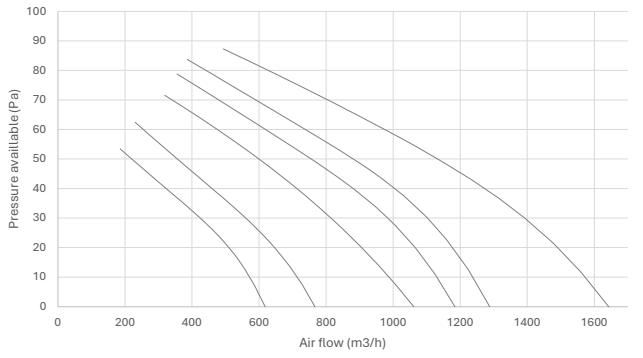
Modì 70



Modì 80



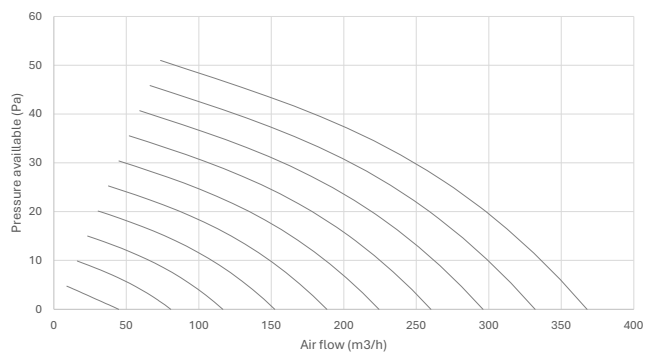
Modì 90



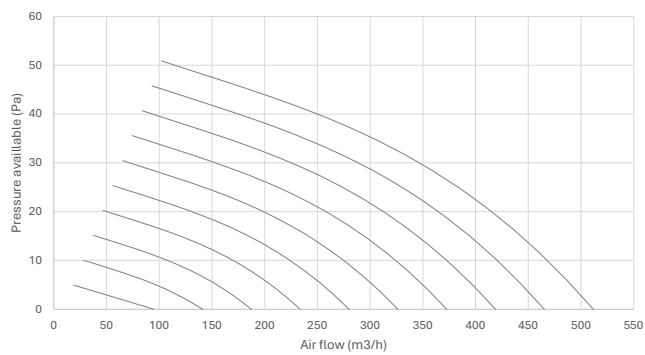
TECHNICAL DATA

FLOW RATE/HEAD CURVES

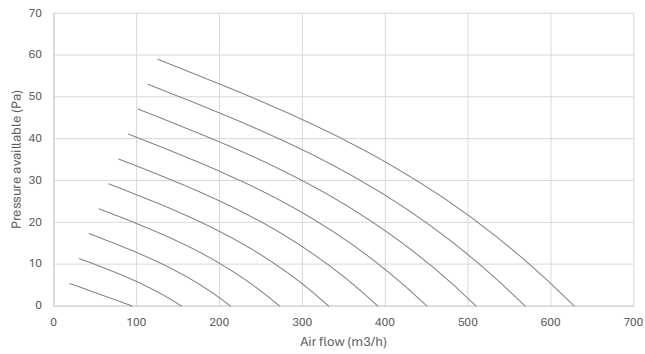
Modì-ECM 20



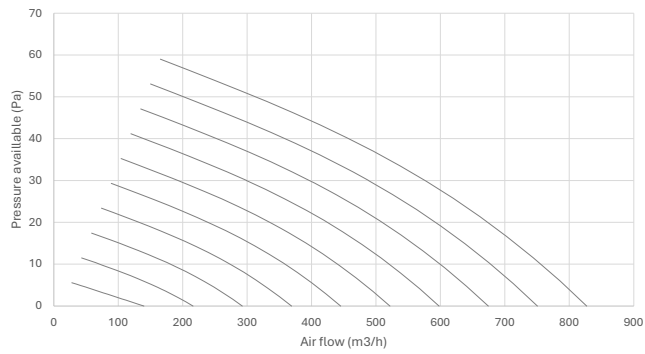
Modì-ECM 30



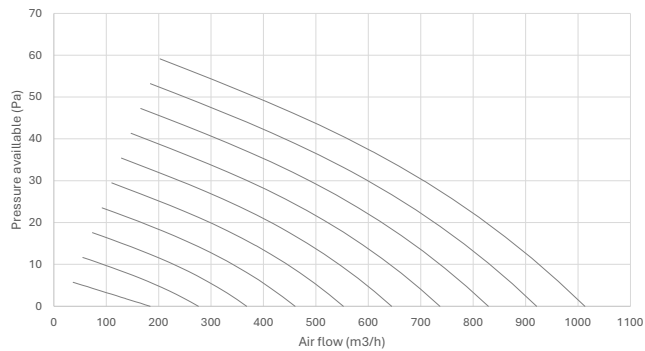
Modì-ECM40



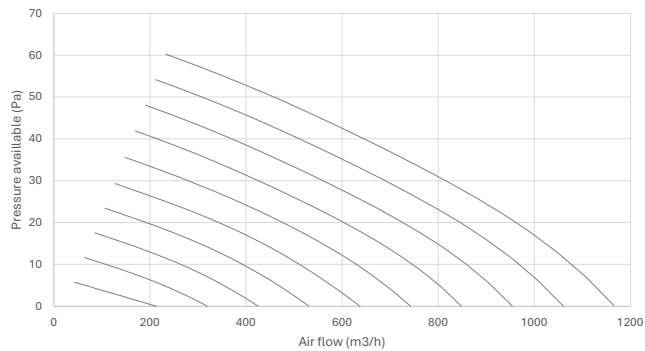
Modì-ECM 50



Modì-ECM 60

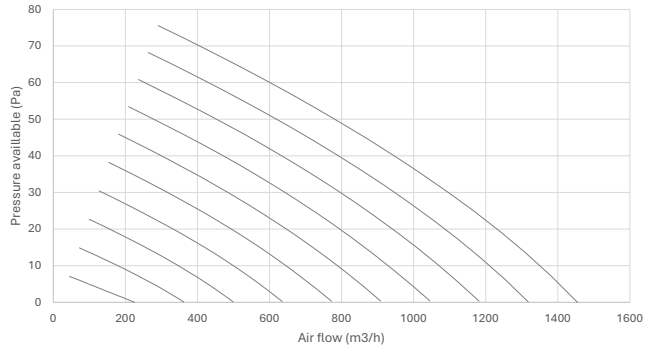


Modì-ECM 70

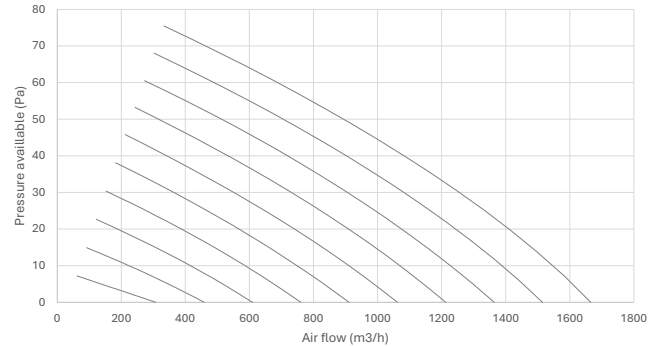


TECHNICAL DATA

Modì-ECM 80



Modì-ECM 90



ASYNCHRONOUS FREQUENCY SPECTRUM

		Octave band frequency spectrum (Hz)							Power sound total [db(A)]
		125	250	500	1000	2000	4000	8000	
10	6	44,0	45,5	44,0	40,0	34,0	27,0	22,0	45,0
	5	40,0	44,0	41,7	38,0	33,0	24,0	19,0	43,0
	4	37,0	41,0	38,0	33,0	28,0	19,0	18,0	39,0
	3	34,0	38,0	34,0	28,5	21,0	18,0	19,0	36,0
	2	30,0	34,0	30,5	23,0	17,0	16,0	18,0	31,0
	1	24,4	31,0	27,0	16,0	19,0	14,0	17,0	28,0
20	6	44,0	48,0	46,0	41,0	37,5	32,0	25,0	47,0
	5	44,0	45,5	44,0	40,0	34,0	27,0	22,0	45,0
	4	37,0	42,0	39,3	33,0	30,0	22,0	19,7	40,0
	3	35,0	39,0	36,0	31,6	24,0	19,0	21,0	37,0
	2	30,0	35,0	31,0	24,0	21,0	17,0	18,0	32,0
	1	21,0	26,0	27,0	24,0	20,0	15,0	13,0	29,0
30	6	46,0	50,0	47,0	44,0	40,0	32,0	25,0	49,0
	5	44,0	47,0	45,8	41,8	38,0	30,0	24,0	47,0
	4	43,0	44,5	43,0	39,0	33,0	26,0	21,0	44,0
	3	38,0	42,0	39,0	37,0	29,0	22,0	21,0	41,0
	2	35,0	42,0	35,3	27,9	23,5	20,0	22,0	37,0
	1	29,0	33,0	29,5	22,0	16,0	15,0	17,0	30,0
40	6	47,0	50,0	49,0	42,0	42,7	36,0	30,0	50,0
	5	43,0	48,0	45,5	43,8	39,0	33,0	24,0	48,0
	4	41,0	44,0	40,8	39,0	32,0	25,0	18,0	43,0
	3	38,0	42,0	39,0	34,0	28,8	21,0	20,0	40,0
	2	32,0	36,0	33,0	28,6	21,0	16,0	18,0	34,0
	1	29,6	34,0	26,0	17,0	17,0	20,0	24,0	30,0
50	6	50,0	52,0	49,0	48,0	47,0	38,0	30,0	53,0
	5	46,0	50,0	48,5	44,5	41,7	35,0	29,0	50,0
	4	44,0	48,0	45,0	42,0	38,0	30,0	23,0	47,0
	3	42,0	44,0	41,0	39,0	31,0	24,0	19,0	43,0
	2	34,0	38,0	35,0	30,6	23,0	18,0	20,0	36,0
	1	33,0	35,0	30,0	22,0	20,0	20,0	24,0	32,0
60	6	51,0	54,0	52,0	51,0	50,0	43,0	37,0	56,0
	5	51,0	54,0	51,0	50,0	45,0	39,0	31,0	54,0
	4	47,0	50,0	48,0	45,5	45,0	34,0	26,0	51,0
	3	43,0	45,0	42,0	40,0	32,0	26,0	21,0	44,0
	2	37,0	41,0	38,0	33,0	28,0	19,0	18,0	39,0
	1	31,0	35,0	30,0	25,0	21,0	19,0	17,0	32,0
70	6	58,0	58,0	57,0	54,0	51,0	44,0	36,0	59,0
	5	53,0	56,0	54,0	53,0	48,0	42,0	33,0	56,0
	4	47,0	50,0	48,0	45,5	45,0	34,0	26,0	51,0
	3	41,0	45,0	42,0	37,0	31,8	24,0	23,0	43,0
	2	37,0	41,0	38,0	33,0	28,0	19,0	18,0	39,0
	1	30,0	35,0	31,0	25,0	19,0	16,0	18,0	32,0
80	6	57,0	60,0	59,0	56,0	53,0	46,0	39,0	61,0
	5	58,0	58,0	57,0	54,0	51,0	44,0	36,0	59,0
	4	54,0	57,5	55,0	52,0	48,0	42,0	33,0	57,0
	3	50,0	53,0	51,0	47,0	48,8	39,0	33,0	54,0
	2	47,0	50,0	48,0	45,5	45,0	34,0	26,0	51,0
	1	44,0	46,0	43,0	41,0	33,0	26,0	21,0	45,0
90	6	64,0	64,0	63,0	60,0	56,0	53,0	47,0	65,0
	5	60,0	63,0	62,0	58,7	56,0	51,0	45,0	64,0
	4	59,0	61,0	59,0	57,0	55,0	48,0	42,0	62,0
	3	58,0	58,0	57,0	54,0	51,0	44,0	36,0	59,0
	2	50,0	53,0	51,0	47,0	48,8	39,0	33,0	54,0
	1	44,0	46,0	43,0	41,0	33,0	26,0	21,0	45,0

ASYNCHRONOUS FREQUENCY SPECTRUM

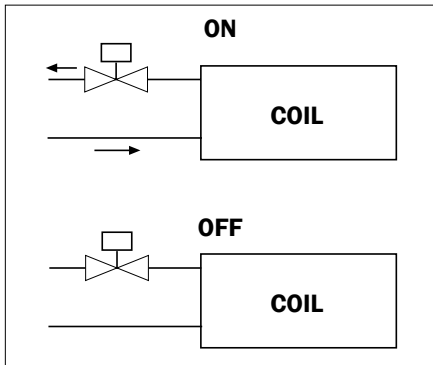
		Octave band frequency spectrum (Hz)							Power sound total [db(A)]
		125	250	500	1000	2000	4000	8000	
10	6	-	-	-	-	-	-	-	-
	5	-	-	-	-	-	-	-	-
	4	-	-	-	-	-	-	-	-
	3	-	-	-	-	-	-	-	-
	2	-	-	-	-	-	-	-	-
	1	-	-	-	-	-	-	-	-
20	6	41,2	46,6	48,0	40,3	32,4	22,8	20,3	47,0
	5	39,2	44,6	45,9	38,5	30,1	17,9	19,9	45,0
	4	36,8	42,0	41,9	33,3	25,9	12,6	19,9	41,0
	3	33,9	39,4	39,0	29,7	18,2	10,5	19,9	38,0
	2	29,4	35,6	33,7	23,3	16,1	11,2	19,9	33,0
	1	23,7	20,7	14,9	11,0	12,6	12,5	15,7	21,0
30	6	45,2	49,0	49,8	41,7	36,5	24,2	21,0	49,0
	5	41,2	46,6	48,0	40,3	32,4	22,8	20,3	47,0
	4	37,2	42,6	43,9	36,5	28,1	15,9	17,9	43,0
	3	34,8	40,0	39,9	31,3	23,9	10,6	17,9	39,0
	2	32,2	37,7	37,1	27,6	16,2	8,7	17,9	36,0
	1	22,6	19,6	13,8	10,0	11,5	11,4	15,0	20,0
40	6	45,3	50,2	51,9	44,1	38,0	30,1	22,3	51,0
	5	45,2	49,0	49,8	41,7	36,5	24,2	21,0	49,0
	4	39,2	44,6	46,0	38,3	30,4	20,8	18,3	45,0
	3	36,2	41,4	41,9	33,8	27,0	13,6	18,0	41,0
	2	31,2	36,7	36,1	26,6	15,2	7,7	16,9	35,0
	1	21,6	18,6	12,8	9,0	10,5	10,4	14,0	19,0
50	6	50,0	53,8	54,6	47,3	42,0	33,7	24,7	54,0
	5	46,1	49,7	50,2	43,0	40,2	29,1	21,5	50,0
	4	43,2	47,0	47,8	39,7	34,5	22,2	19,0	47,0
	3	37,7	42,5	42,8	34,4	29,7	15,4	18,1	42,0
	2	30,8	36,8	36,0	26,7	15,4	7,0	17,8	35,0
	1	22,6	19,6	13,8	10,0	11,5	11,4	15,0	20,0
60	6	53,3	57,1	57,4	50,2	45,1	40,4	28,1	57,0
	5	51,1	54,7	55,4	48,4	43,7	36,7	25,7	55,0
	4	45,3	50,2	51,9	44,1	38,0	30,1	22,3	51,0
	3	39,7	44,5	44,8	36,4	31,7	17,4	20,1	44,0
	2	34,6	41,4	41,1	31,3	23,9	15,8	20,3	40,0
	1	25,5	22,5	16,7	13,1	14,5	14,4	18,4	23,0
70	6	55,1	59,1	59,4	52,4	47,1	43,1	31,7	59,0
	5	52,2	55,9	56,4	49,3	44,4	38,5	26,9	56,0
	4	45,3	50,2	51,9	44,1	38,0	30,1	22,3	51,0
	3	39,2	44,6	45,9	38,5	30,1	17,9	19,9	45,0
	2	35,3	41,1	40,1	30,0	20,1	11,8	20,0	39,0
	1	30,2	27,7	22,2	14,0	9,2	12,9	19,6	25,0
80	6	58,3	61,3	61,6	56,1	51,0	49,1	38,4	62,0
	5	56,2	59,8	60,0	53,7	48,6	46,0	34,3	60,0
	4	54,1	58,1	58,4	51,3	46,0	41,8	29,7	58,0
	3	51,1	54,7	55,4	48,4	43,7	36,7	25,7	55,0
	2	48,1	51,7	52,2	45,0	42,2	31,1	23,5	52,0
	1	30,2	27,7	22,2	14,0	9,2	12,9	19,6	25,0
90	6	60,1	63,6	61,9	59,8	57,8	53,3	46,6	65,0
	5	60,0	62,9	62,1	58,7	55,4	52,0	44,0	64,0
	4	58,3	61,3	61,6	56,1	51,0	49,1	38,4	62,0
	3	54,1	58,1	58,4	51,3	46,0	41,8	29,7	58,0
	2	50,0	53,8	54,6	47,3	42,0	33,7	24,7	54,0
	1	30,2	27,7	22,2	14,0	9,2	12,9	19,6	25,0

VALVES

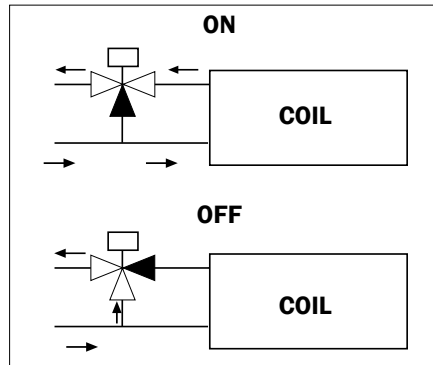
2-WAY AND 3-WAY VALVE KITS

2-way or 3-way valve kits are available for both the main and auxiliary coil.

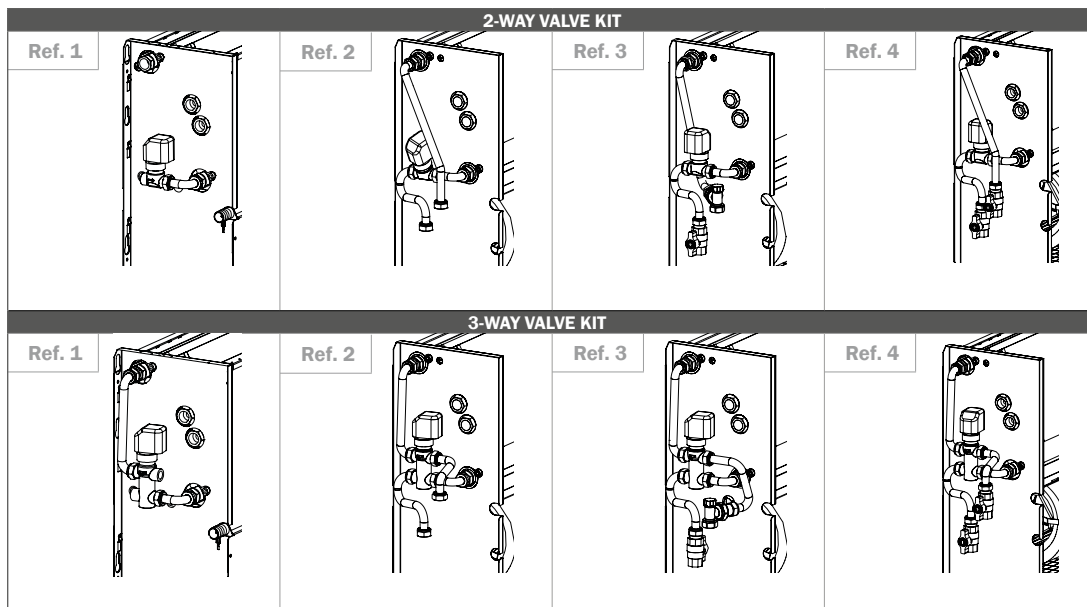
Operating principle of a 2-way valve



Operating principle of a 3-way valve



The valve body and hydraulic fittings are made of brass, while the connecting pipes are made of copper. The 2- or 3-way valves are equipped with a completely silent electric actuator, available as ON/OFF with 230V or 24V power supply, or modulating with 24V power supply and 0–10V control signal. The basic kit includes the valve body, electric actuator, copper pipes, locknuts, and gaskets for mounting on the fan coil unit. Valve kits are also available, including copper pipes for system connection, ball valve and balancing valve, or double ball valve.



index	
Ref.1	2/3 way valve only kit
Ref.2	2/3 way kit with system pipes
Ref.3	2/3 way kit with shut off valve and balancing valve
Ref.4	2/3 way kit with 2 shut off valves

TECHNICAL DATA 2 AND 3 WAY VALVE KIT (*)

Maximum pressure	10 bar
Minimum Fluid Temperature	4 °C
Maximum Fluid Temperature	100 °C
Applicable Fluids	water with glycol < 40%
Shutter Stroke	2,5 mm
Bypass Leakage	< 0,02 % Kvs
Connection for Actuator with Threaded Nut	M 30 x 1,5
Characteristic with Actuator	Normally closed

BALANCING VALVE TECHNICAL DATA (*)

Maximum Pressure	8 bar
Minimum Fluid Temperature	4 °C
Maximum Fluid Temperature	80 °C
Applicable Fluids	water with glycol < 30%

* Technical data refers to the valve kit or the balancing only.

VALVES

ELECTRICAL DATA FOR 2-WAY AND 3-WAY VALVE ACTUATORS

230V ON-OFF ACTUATOR

Power supply	230 V ac
Power consumption in service	1,8W
Initial opening time	90s
Protection rating	IP54

24V ON-OFF ACTUATOR

Power supply	24V ac/dc 50/60Hz
Power consumption in service	1,6W
Initial opening time	3min
Protection rating	IP54

MODULATING ACTUATOR

Power supply	24V ac/dc 50/60Hz
Action	Proportional
Control	0/10V
Control signal impedance	>100 kΩ
Power consumption in service	2,5VA - 1,5W
Travel time	8s/mm
Protection rating	IP43

HYDRAULIC DATA VALVES AND LOCKS

3-ROW MAIN COIL

		10	20	30	40	50	60	70	80	90
Ø valve connections		1/2"					3/4"		3/4"	
2-way valve	Kvs	1,7					2,8		4,0	
	ΔP max closing (bar)	2,5					1,5		1,0	
3-way valve	Kvs straight way	1,7					2,8		4,0	
	Kvs by-pass	1,2					1,8		1,6	
	ΔP max closing (bar)	2,0					1,0		0,8	
Balancing	Kvs	2,5					2,9		5,0	

4-ROW MAIN COIL

		10	20	30	40	50	60	70	80	90
Ø valve connections		1/2"					3/4"		3/4"	
2-way valve	Kvs	1,7					2,8		4,0	
	ΔP max closing (bar)	2,5					1,5		1,0	
3-way valve	Kvs straight way	1,7					2,8		4,0	
	Kvs by-pass	1,2					1,8		1,6	
	ΔP max closing (bar)	2,0					1,0		0,8	
balancing valve	Kvs	2,5					2,9		5,0	

1-2 ROW AUXILIARY COIL

		10	20	30	40	50	60	70	80	90
Ø valve connections		1/2"								
2-way valve	Kvs	1,7								
	ΔP max closing (bar)	2,5								
3-way valve	Kvs straight way	1,7								
	Kvs by-pass	1,2								
	ΔP max closing (bar)	2,0								
balancing valve	Kvs	2,5								

HYDRAULIC CONNECTION POSITIONS FOR 2-WAY AND 3-WAY VALVES

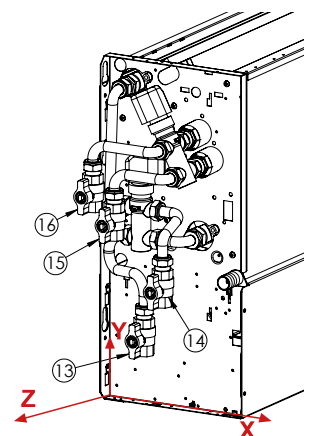
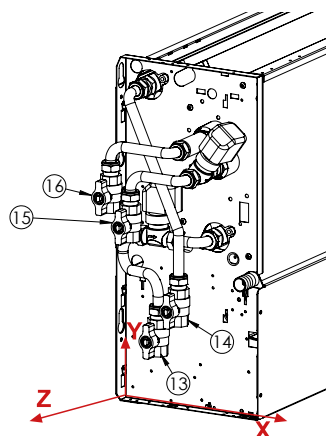
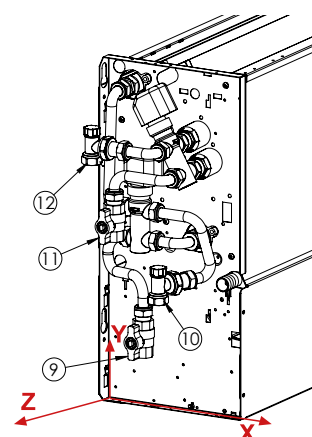
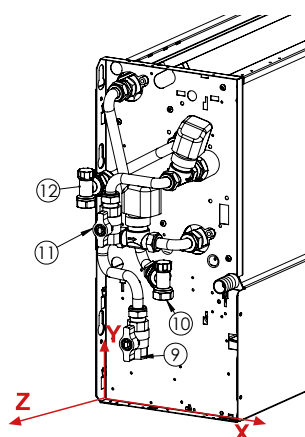
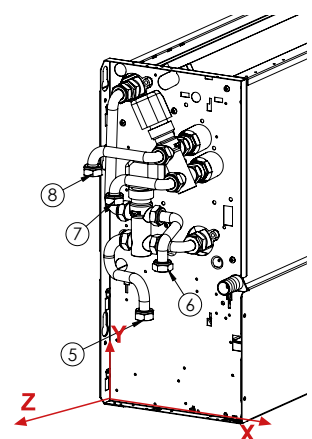
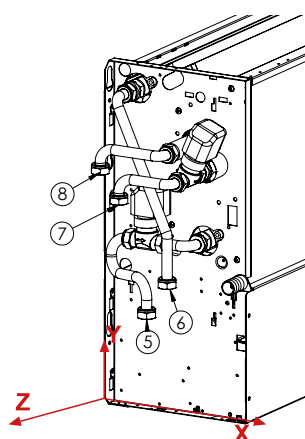
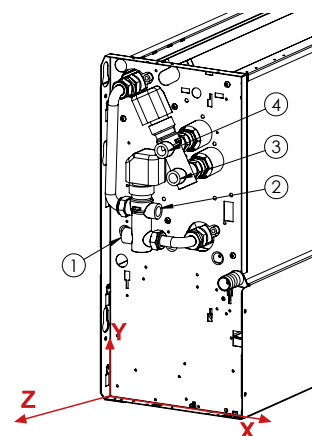
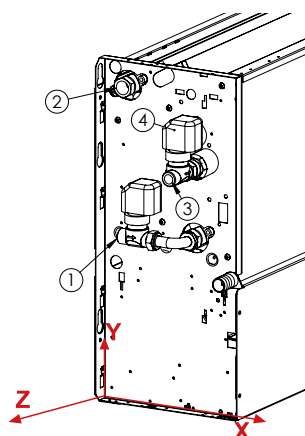
2-WAY AND 3-WAY VALVE KITS

Valve + actuator				
2-WAYS		MODi 10-90		
Coil	Ref.	X	Y	Z
Standard	1	50	245	40
	2	35	440	10
Auxiliary	3	150	345	75
	4	130	280	10
3-WAYS		MODi 10-90		
Coil	Ref.	X	Y	Z
Standard	1	50	240	45
	2	85	280	45
Auxiliary	3	155	345	55
	4	130	380	55

Valve + actuator + copper tubes valve/system				
2-WAYS		MODi 10-90		
Coil	Ref.	X	Y	Z
Standard	5	95	150	85
	6	130	200	85
Auxiliary	7	70	315	95
	8	35	350	85
3-WAYS		MODi 10-90		
Coil	Ref.	X	Y	Z
Standard	5	100	150	85
	6	135	225	95
Auxiliary	7	65	310	95
	8	30	345	95

Valve + actuator + shutt off valve + balancing valve				
2-WAYS		MODi 10-90		
Coil	Ref.	X	Y	Z
Standard	9	95	100	85
	10	135	175	80
Auxiliary	11	70	255	95
	12	25	300	85
3-WAYS		MODi 10-90		
Coil	Ref.	X	Y	Z
Standard	9	100	95	90
	10	130	170	90
Auxiliary	11	70	255	95
	12	35	360	95

Valve + actuator + 2 shutt off valves				
2-WAYS		MODi 10-90		
Coil	Ref.	X	Y	Z
Standard	13	95	100	85
	14	135	155	85
Auxiliary	15	70	255	95
	16	35	290	85
3 VIE		MODi 10-90		
Coil	Ref.	X	Y	Z
Standard	13	100	95	85
	14	135	170	95
Auxiliary	15	70	255	95
	16	35	290	95

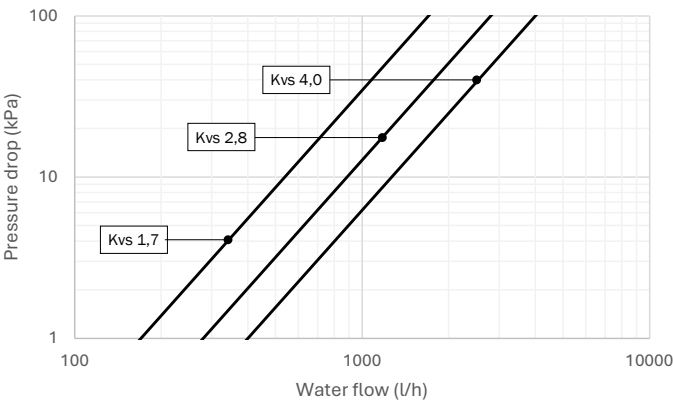


The positions of the hydraulic valve connections can vary by + / - 10mm.

PRESSURE DROP IN VALVES AND BALANCING VALVE

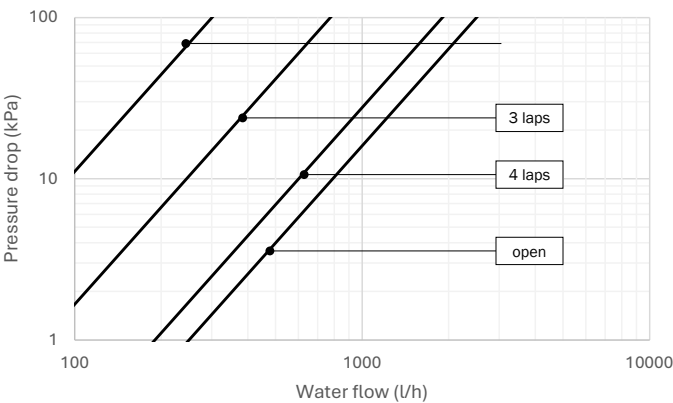
VALVE PRESSURE DROPS

Pressure drops of 2-way valves and 3-way valves (straight way)



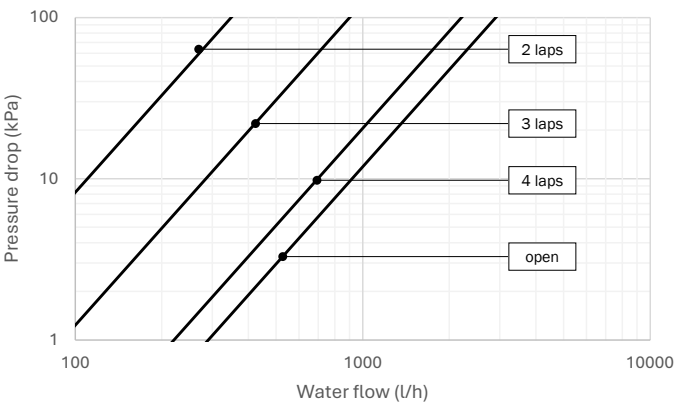
BALANCING VALVE PRESSURE DROPS

Pressure drops 1/2" Kvs 2.5 balancing



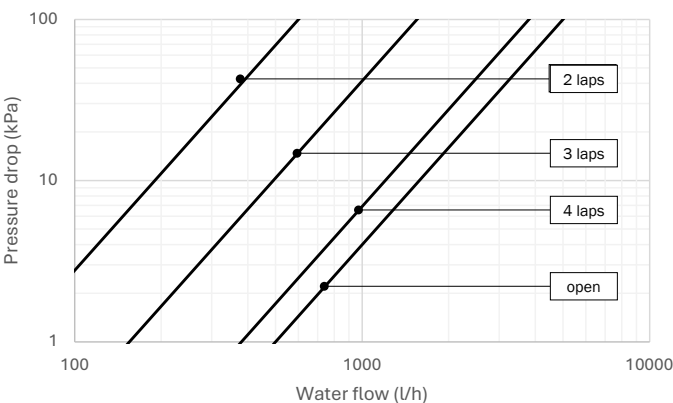
BALANCING VALVE PRESSURE DROPS

Pressure drops 3/4" Kvs 2.9 balancing



BALANCING VALVE PRESSURE DROPS

Pressure drops 3/4" Kvs 5.0 balancing



ACCESSORIES

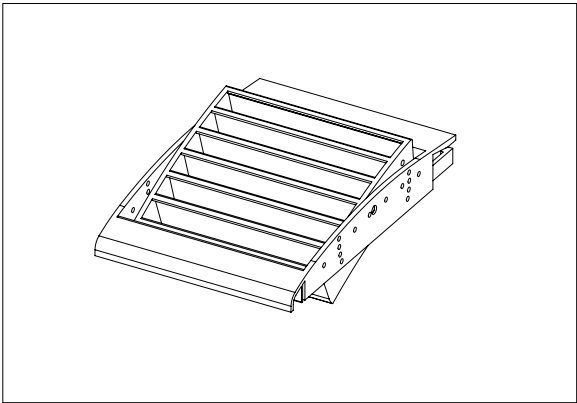
AUXILIARY COIL

The auxiliary coil is added to the main coil to use the fan coil in 4-pipe systems with two separate hydraulic circuits for chilled water and hot water.
The 1-row auxiliary coil is compatible with the 3- or 4-row main coil.
The 2-row auxiliary coil is only compatible with the 3-row main coil.

ADJUSTABLE SUPPLY GRILL

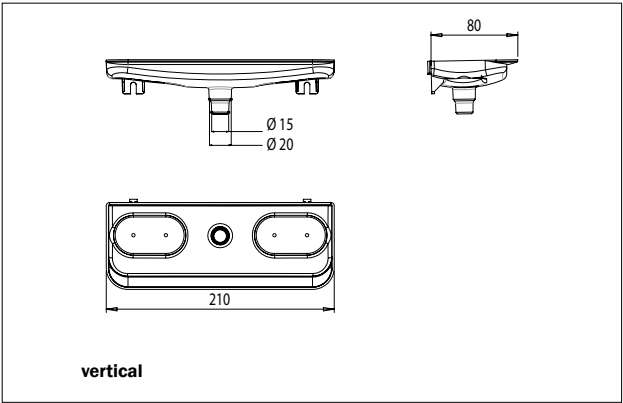
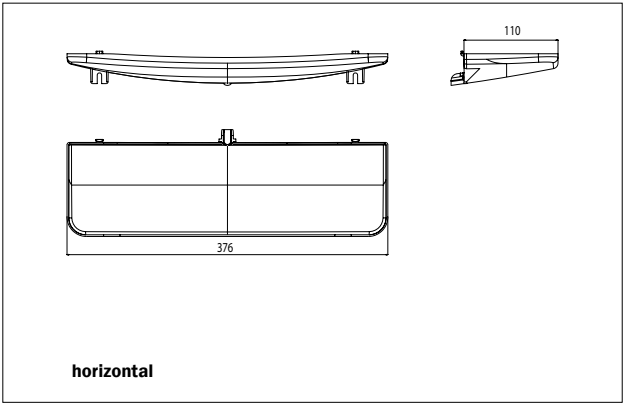
FOR VERSION V-M

The adjustable outlet grilles are made of ABS and are only compatible with the V-M cabinet versions.
They are mounted in place of the standard fixed grilles and allow you to manually direct the airflow toward the center of the room or toward the wall (for vertical versions) or downwards or upwards (for horizontal versions).
The kit includes the number of grilles required for each fan coil unit size, but please note that the first grille on the right and the first grille on the left remain fixed.



AUXILIARY DRAIN PAN

The auxiliary drain pan is made of ABS and collects condensation drops that fall from the surfaces of the valve and the copper pipes connecting to the coil.
Two specific versions are available for horizontal and vertical units.



ELECTRICAL RESISTANCE

FOR VERSION A-M / A-MF / I

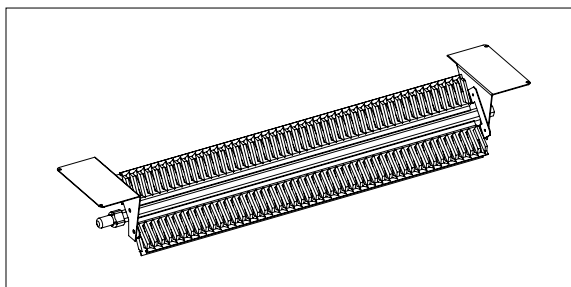
The electric resistance is only compatible with the 3-row main coil (4-row coil is not compatible) and is used to heat the room as a replacement for the hydronic coil. The kit includes the aluminum heating element, the automatic reset safety thermostat, the manual reset safety thermostat, the power relay, and all the electrical wiring, pre-installed and factory-installed, for complete operation of the device.

The following are not permitted:

- The simultaneous use of the electric resistance and the hydronic heating coil;
- Operation of the electric resistance at ambient temperatures above 23 °C;
- Operation of the electric resistance at fan speeds lower than the 3rd speed for asynchronous motors or lower than 4V for EC motors for non-ducted fan coils (free-blowing operation). If the fan coil is ducted, a minimum air flow rate equal to at least the 3rd speed or 4V free-blowing operation must be guaranteed.

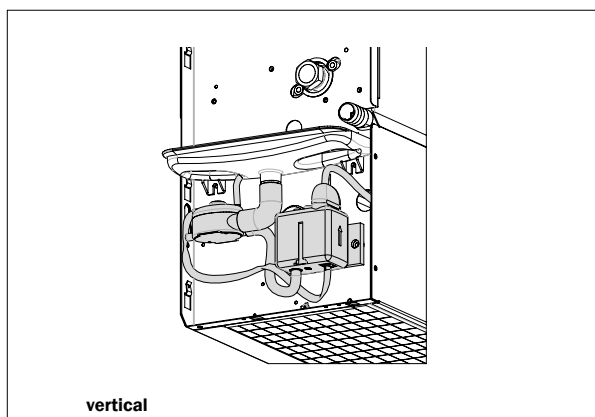
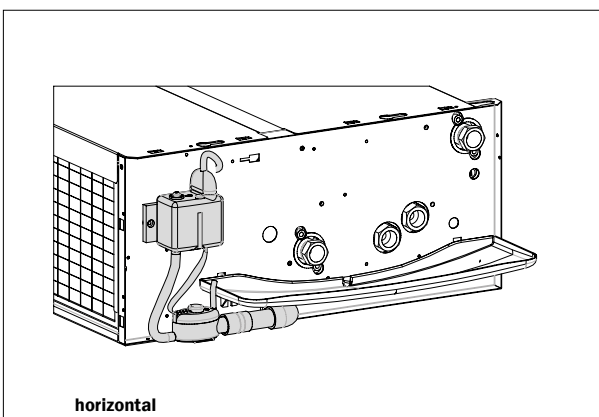
The control to be used must be equipped with specific logic for managing the electrical resistance, which includes the post-ventilation function for cooling the resistances.

Model	Power	power supply
10	600 W	230V - 1ph - 50Hz
20	600 W	
30-40	1500 W	
50	1500 W	
60	2500 W	
70-80	2500 W	
90	3000 W	

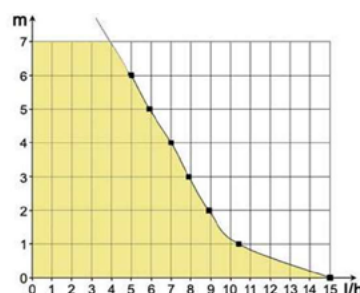


CONDENSATE DRAIN PUMP

The condensate drain pump is used when gravity drainage is not possible. The kit includes a float switch that automatically turns the pump on when there is water in the tank and turns it off when it has been completely drained. The float switch also has an alarm contact that can be used to close the chilled water solenoid valve if the condensate level in the tank is excessive.



Power supply	230V - 1ph - 50/60Hz
Power consumption	19W
Maximum capacity	15 l/h
Maximum thrust height	10m
Maximum alarm contact current	3A
Protection rating	IP64
Thermal protection	Si
Operation	100%



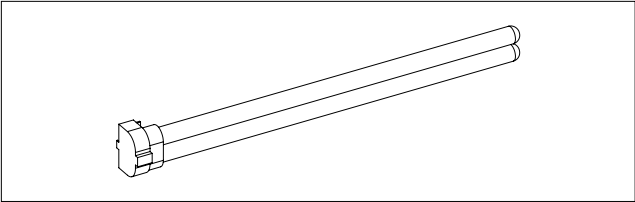
ACCESSORIES

GERMICIDAL LAMP

Ultraviolet lamp that prevents the proliferation of bacteria, such as legionella, inside the condensation collection tray.

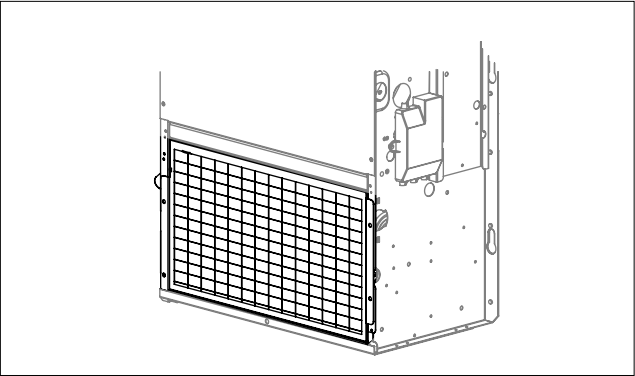
It is not compatible with IF version

Power supply	230V - 1ph - 50Hz
Power consumption	36W



FRONT AIR FILTER KIT

This accessor it allows the filter to be installed on the front instead of on the bottom side.



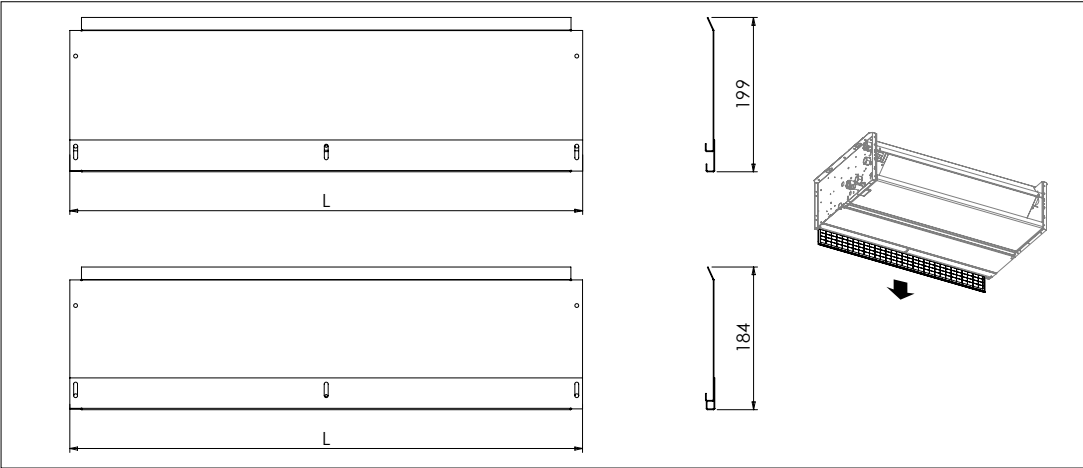
ENGINE COVER PANEL FOR FILTER EXTRACTION FROM THE BOTTOM

This panel, installed on the unit to replace the standard motor cover, consists of two elements that slide over each other to easily remove the filter from the bottom.

Compatible with versions I and IF, it is required when installing an accessory in the exhaust air (90° plenum, straight plenum, plenum, or other ducting provided by the installer).

It is not required when installing the “Plenum with circular connections” accessory in the exhaust air, as this accessory already has the slides for extracting the filter from the bottom.

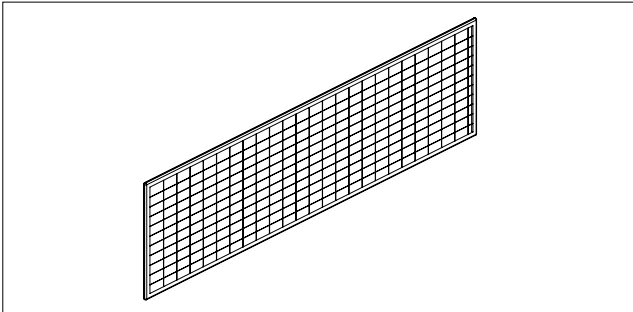
Model	L (mm)
10	360
20	510
30-40	660
50	810
60	960
70-80	1110
90	1260



ISO COARSE AIR FILTER 55%

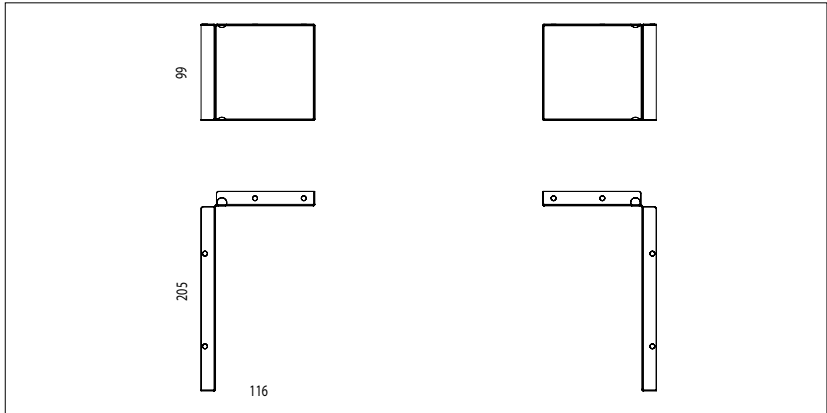
Air filter made of synthetic filter fabric enclosed in a metal frame. It is interchangeable with the standard filter, having the same dimensions. Filter class COARSE 55% according to ISO 16890.

Not compatible with the A-MF version.



PAIR OF RECESSED SOCKETS

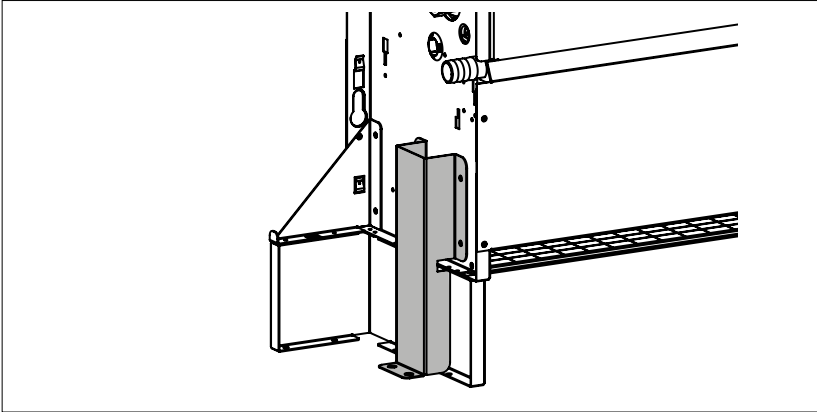
The pair of built-in plinths is compatible with versions I and IF and can be used when the unit is to be placed on the floor. The unit must be secured to the wall using the holes on the sides of the back of the unit or to the floor using the additional accessory “Pair of floor fixing brackets”.



ACCESSORIES

PAIR OF FLOOR FIXING BRACKETS

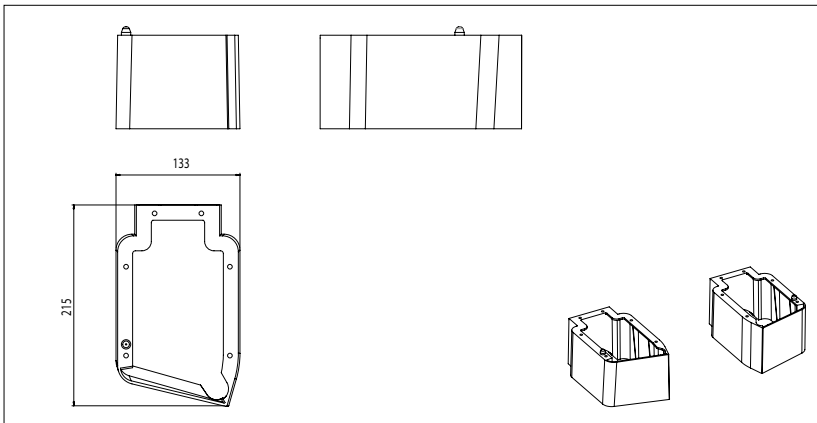
The pair of floor fixing brackets is compatible with versions I, IF and A-M and can be used when it is necessary to fix the unit to the floor in addition to the “Pair of built-in plinths” (version I and IF) or the “Pair of ABS plinths” (version A-M).



PAIR OF ABS FEET

FOR VERSION A-M

The pair of baseboards is made of ABS and is compatible with the A-M version. It can be used when the unit is to be placed on the floor or to cover the pipes when they come from the floor (vertical installations) or from the wall (horizontal installations). If the unit is to be fixed to the floor, the additional “Pair of floor fixing brackets” accessory is required.

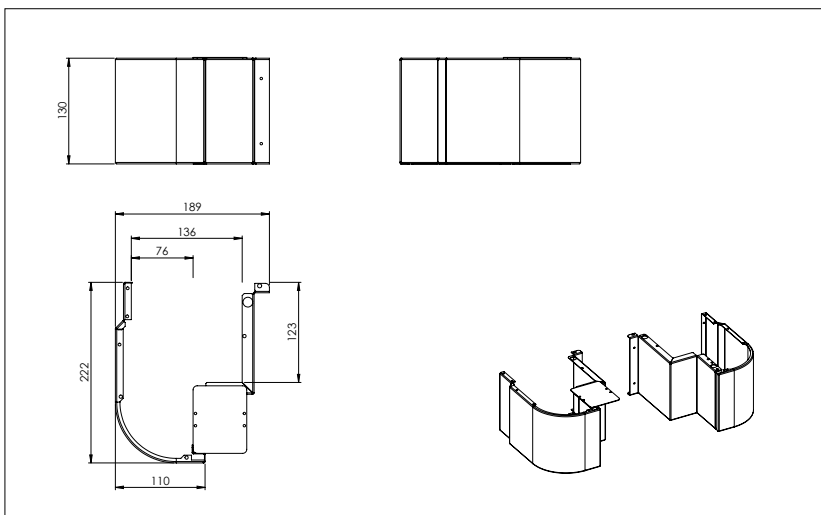


ACCESSORIES

PAIR OF ABS FEET

FOR VERSION V-M

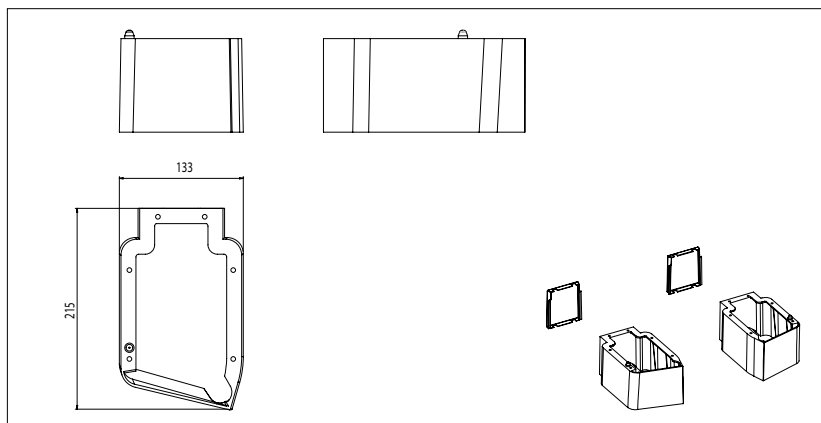
The pair of baseboards is made of ABS and is compatible with the A-M version. It can be used when the unit is to be placed on the floor or to cover the pipes when they come from the floor (vertical installations) or from the wall (horizontal installations). If the unit is to be fixed to the floor, the additional “Pair of floor fixing brackets” accessory is required.



PAIR OF ABS FEET WITH REAR PANEL

FOR VERSION A-M

This pair of feet is similar to the previous one but has the addition of a rear panel in pre-painted sheet metal (or covered with PVC film) in the same colour as the cabinet, to be used when the rear part of the fan coil is visible.

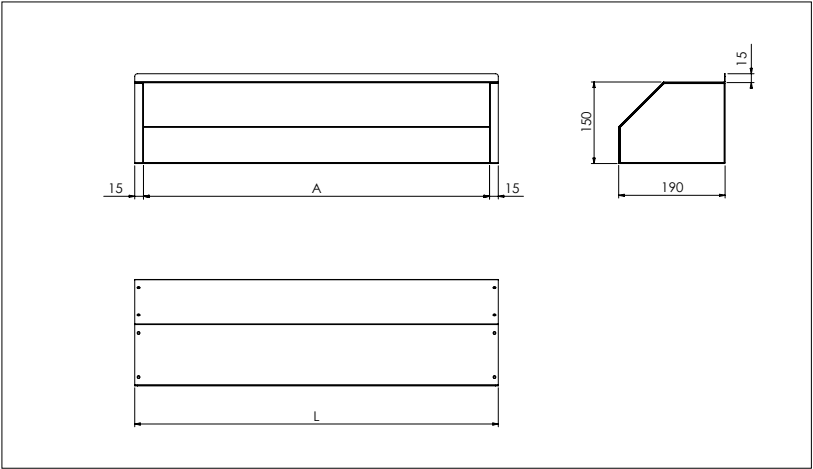


ACCESSORIES

90° PLENUM

The 90° plenum is made of galvanized sheet metal and is available insulated with anti-condensation material for installation in supply (version I) or uninsulated for installation in return (version I and IF).

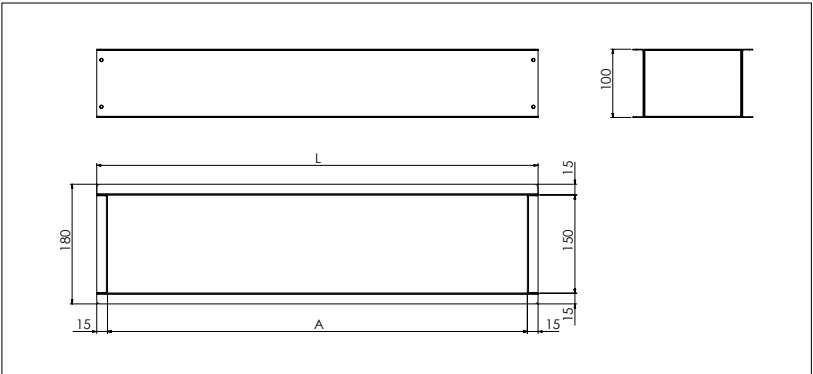
Model	L (mm)	A (mm)
10	360	330
20	510	480
30-40	660	630
50	810	780
60	960	930
70-80	1110	1080
90	1260	1230



RIGHT PLENUM

The straight plenum is made of galvanized sheet metal and is available insulated with anti-condensation material for installation in supply air (compatible with version I) or uninsulated for installation in return air (compatible with version I and IF).

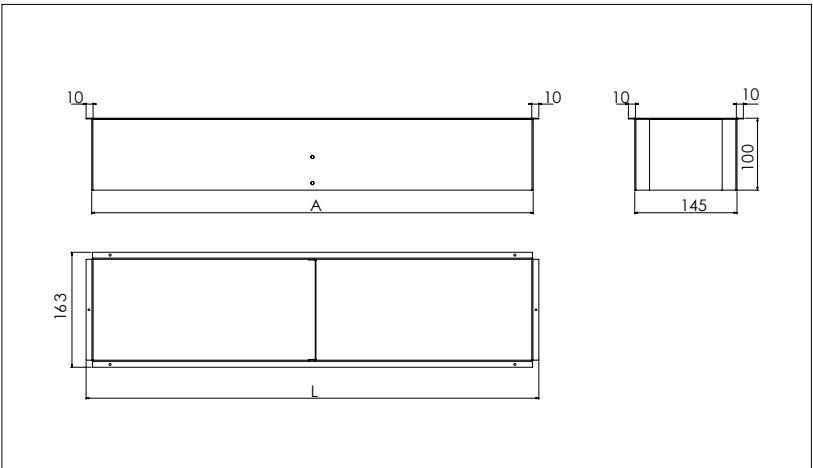
Model	L (mm)	A (mm)
10	360	330
20	510	480
30-40	660	630
50	810	780
60	960	930
70-80	1110	1080
90	1260	1230



TELESCOPIC EXTENSION

The telescopic extension, used with straight or 90° plenums, allows you to adjust their extension to suit your installation needs. They are made of galvanized sheet metal and are not insulated. If used as a supply air duct and if the fan coil unit is operated with chilled water, it is recommended to insulate it with anti-condensation material.

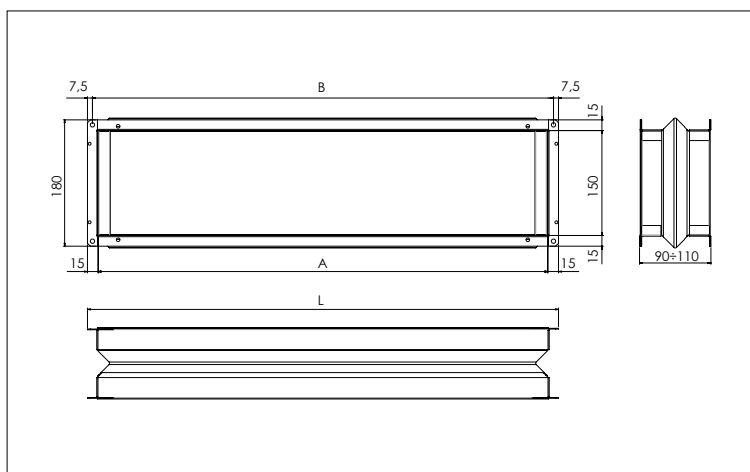
Model	L (mm)	A (mm)
10	342	325
20	492	475
30-40	642	625
50	792	775
60	942	925
70-80	1092	1075
90	1242	1225



ANTI-VIBRATION JOINT

The anti-vibration joint is made of two galvanized sheet metal flanges, with a fabric strip placed between them that dampens the vibrations transmitted from the unit to the duct.

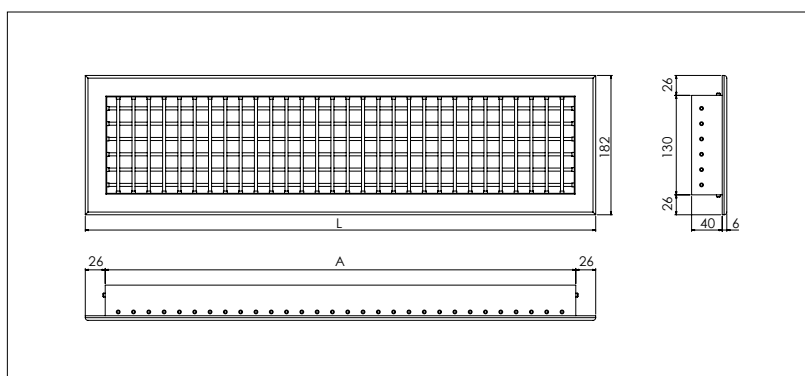
Model	L (mm)	A (mm)	B (mm)
10	360	330	345
20	510	480	495
30-40	660	630	645
50	810	780	795
60	960	930	945
70-80	1110	1080	1095
90	1260	1230	1245



DELIVERY GRILLE

Air outlet grille with a double row of horizontally and vertically adjustable fins. The grille is made of anodized aluminum and features pre-drilled holes for mounting with screws (not included, choose according to the support material).

Model	L (mm)	A (mm)
10	362	310
20	512	460
30-40	662	610
50	812	760
60	962	910
70-80	1112	1060
90	1262	1210

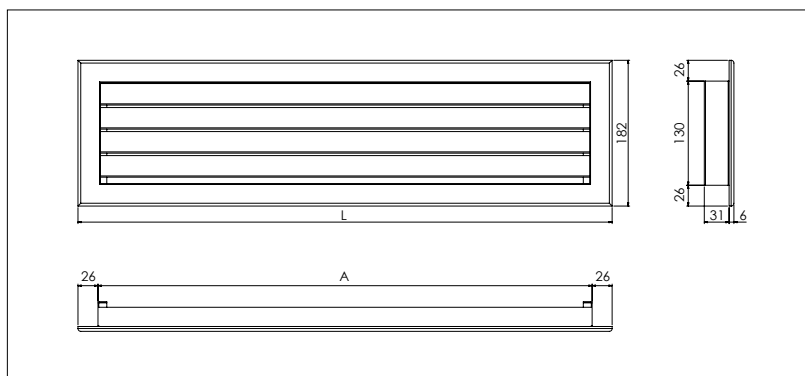


INTAKE GRILLE

Intake grille with fixed horizontal blades. The grille is made of anodized aluminum and features holes for mounting with screws (not included, choose based on the support material).

The grille is available with or without a filter. If the filter is inside the intake grille, the filter supplied with the fan coil unit must be removed.

Model	L (mm)	A (mm)
10	367	315
20	517	465
30-40	667	615
50	817	765
60	967	915
70-80	1117	1065
90	1267	1215

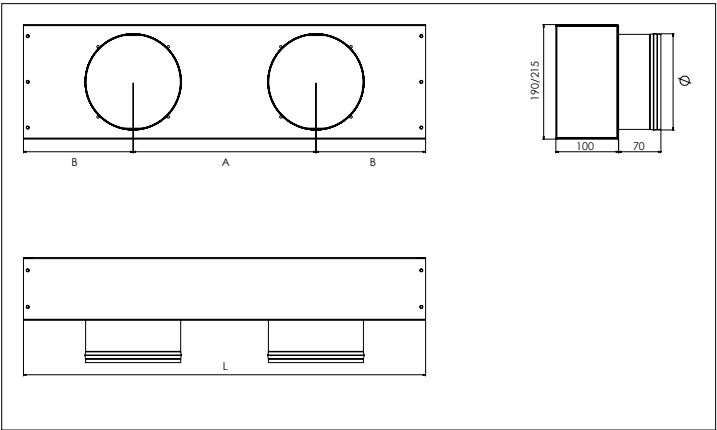


ACCESSORIES

PLENUM WITH CIRCULAR CONNECTIONS

The plenum with circular connections is made of galvanized sheet metal and is available insulated with anti-condensation material for supply air installation (compatible with version I) or uninsulated for return air installation (compatible with version I and IF).
The uninsulated version for intake air installation also includes filter balancing guides, onto which the filter supplied inside the fan coil unit must be placed to allow its extraction from below (an optional motor cover panel accessory is not required).
The circular connections are compatible with flexible ducting for air conditioning systems.

Model	L (mm)	A(mm)	B(mm)	H(mm)	joint
10	360	-	180	190	1x Ø160
20	510	240	135	190	2x Ø160
30-40	660	300	180	190	2x Ø160
50	810	240	165	190	3x Ø160
60	960	230	135	190	4x Ø160
70-80	1110	260	165	190	4x Ø160
90	1260	295	187.5	215	4x Ø200

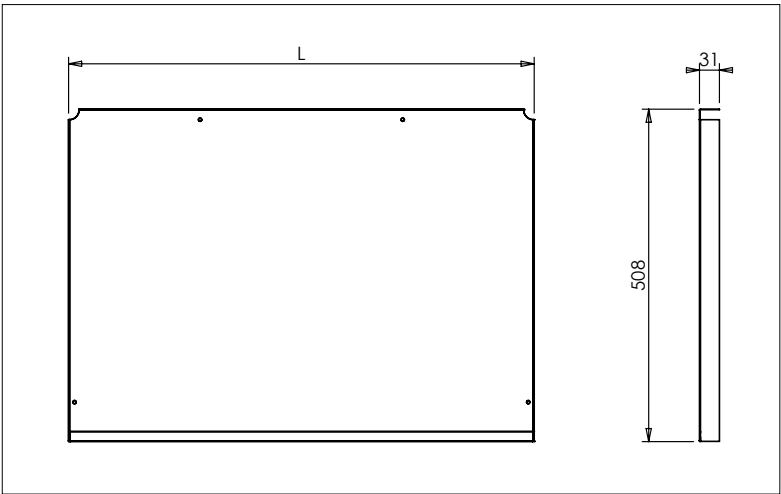


PRE-PAINTED REAR CLOSING PANEL

FOR VERSION A-M / A-MF

The rear closing panel is made of pre-painted sheet metal (or covered with PVC film) and is compatible with the A-M and A-MF cabinet versions. It must be used to close the rear of the fan coil unit when installed vertically, but without leaning it against a wall, or it can be used for aesthetic reasons when the wall is made of glass.

Model	L (mm)
10	530
20	680
30-40	830
50	980
60	1130
70-80	1280
90	1430

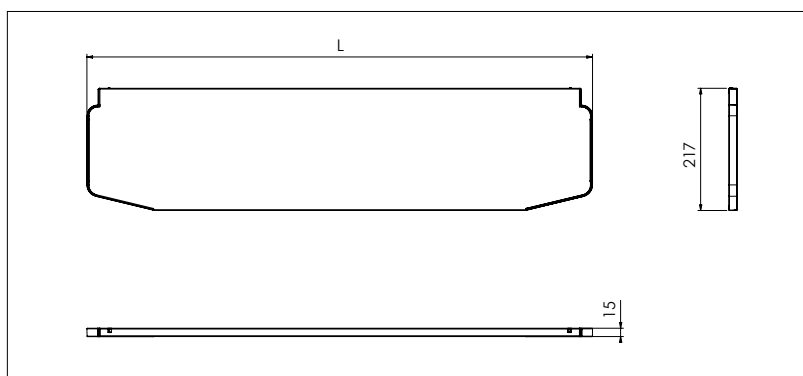


PRE-PAINTED LOWER CLOSURE WITHOUT GRILLE

FOR VERSION A-MF

The lower cover is made of pre-painted sheet metal (or covered with PVC film) and is compatible with the A-MF cabinet version. It must be used to cover the lower part of the fan coil unit when it is installed vertically but detached from the floor, or when it is installed horizontally but detached from the wall.

Model	L (mm)
10	595
20	745
30-40	895
50	1045
60	1195
70-80	1345
90	1495

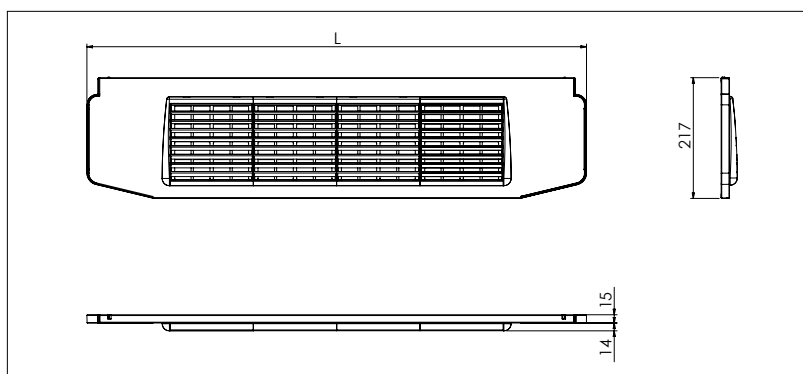


PRE-PAINTED LOWER CLOSURE WITH GRILLE

FOR VERSION A-M

The lower grille is made of pre-painted sheet metal (or covered with PVC film) with an integrated ABS intake grille. It is compatible with the A-M cabinet versions. It can be used for aesthetic reasons to close the lower part of the fan coil unit when it is installed so that the lower part remains visible.

Model	L (mm)
10	595
20	745
30-40	895
50	1045
60	1195
70-80	1345
90	1495

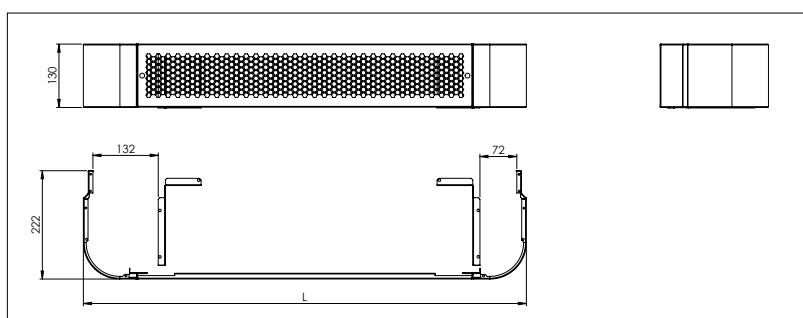


SOCLE WITH FRONTAL AIR INTAKE

FOR VERSION V-M

The socle with front air intake is made of pre-painted sheet metal (or covered with PVC film) and is compatible with the V-M cabinet version. It includes a pair of pre-painted socle and a perforated aesthetic panel that allows the passage of return air and filter inspection.

Model	L (mm)
10	595
20	745
30-40	895
50	1045
60	1195
70-80	1345
90	1495



ACCESSORIES

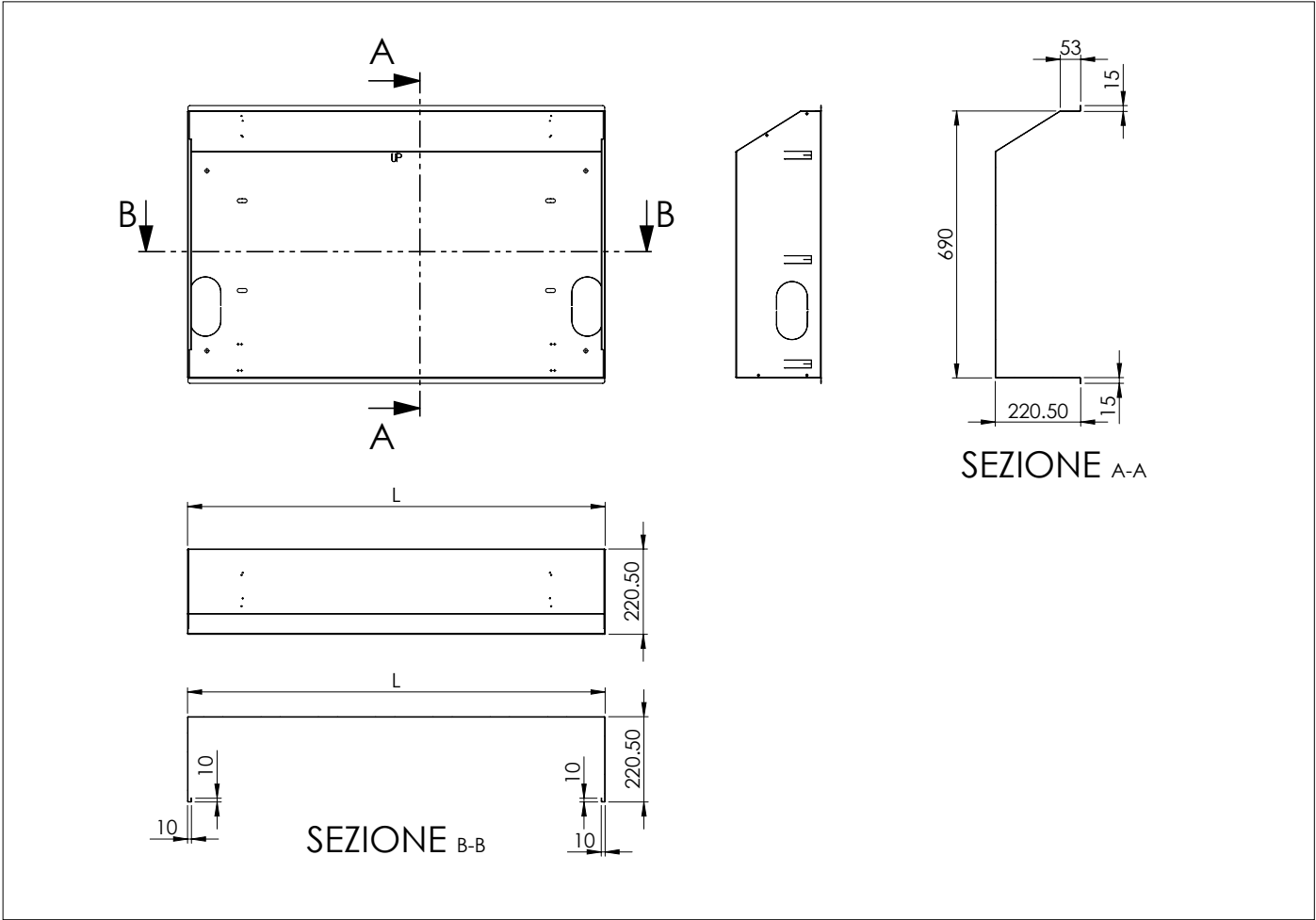
SHEET METAL NICHE

The sheet metal niche is made of galvanized steel and is compatible with the built-in version I. Two specific versions are available for vertical and horizontal installation. The niches feature knockouts for the entry of plumbing pipes and electrical cables in any direction: from the side, from above, from below, or from the rear.

The shape of the niche channels both intake and outlet air without creating turbulence, and additional plenum connections are not required.

To complete the installation, for aesthetic and safety reasons, a painted sheet metal panel is available as an additional accessory.

Model	L (mm)
20	779
30-40	929
50	1079
60	1229
70-80	1379
90	1529



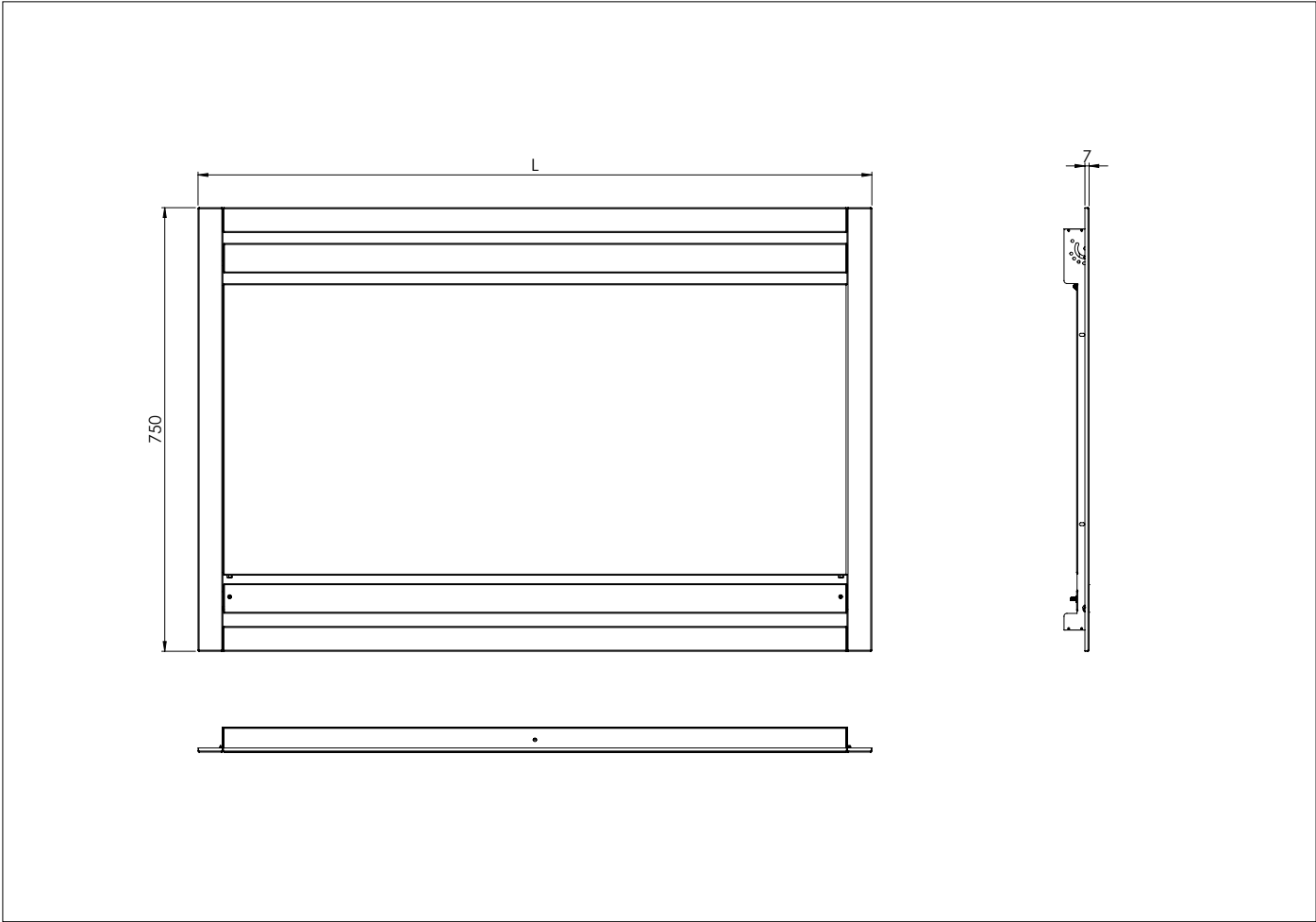
PAINTED SHEET METAL PANEL FOR NICHE

The panel is made of sheet metal painted white (RAL 9003) and is available in two versions: vertical and horizontal. A sheet metal niche is required for installation.

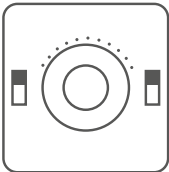
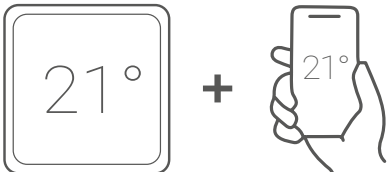
The panel consists of a fixed frame, a small, easily removable lower panel for filter inspection, and a removable central panel for inspection of the built-in fan coil unit inside. It also includes an adjustable deflector that allows the direction of the outlet air to be adjusted.

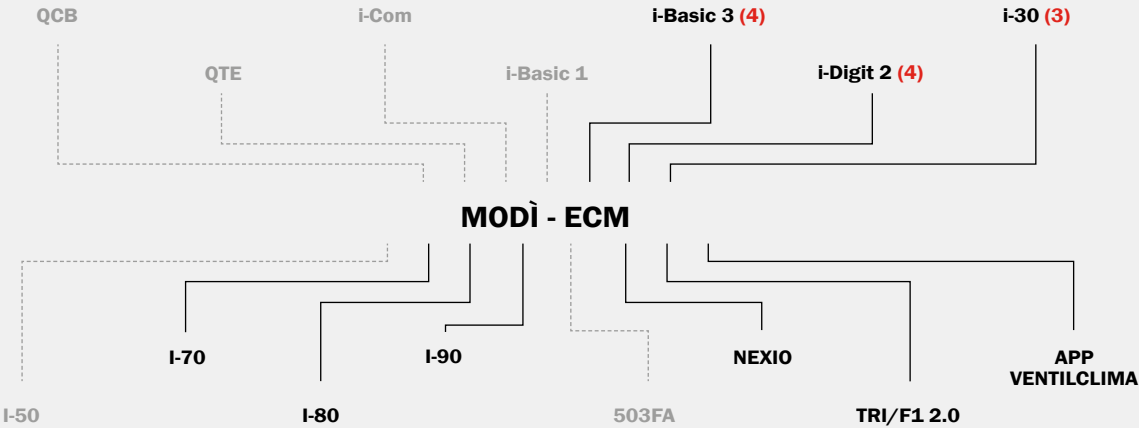
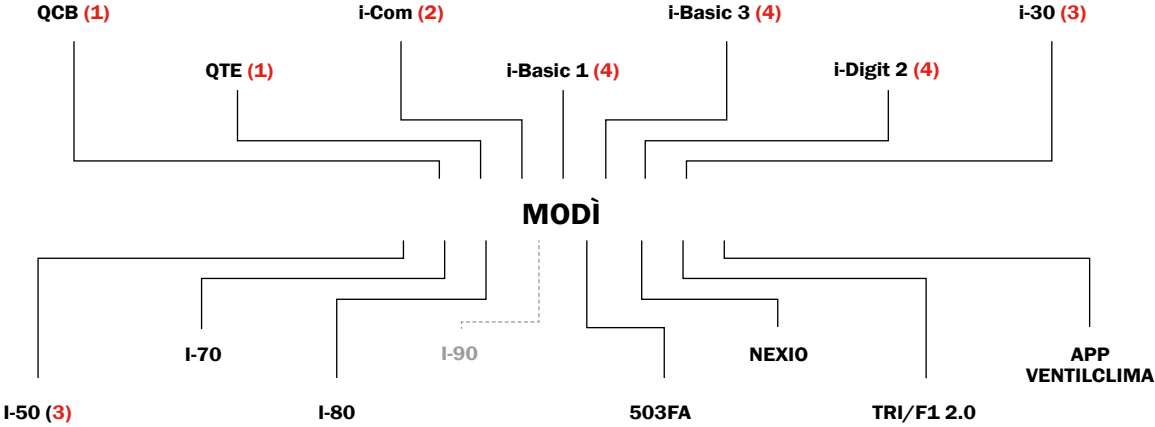
The horizontal installation version includes stainless steel safety cables that secure the removable panels to the fixed structure.

Model	L (mm)
20	839
30-40	989
50	1139
60	1289
70-80	1439
90	1589



COMPATIBILITY CONTROLLERS

	Control	Descrizione - Description
TERMOSTATI BASE - BASIC THERMOSTATS 	QCB	Controllo base con selettore di velocità e stagione (senza gestione della temperatura ambiente) <i>Base control with speed and season selector (without room temperature control)</i>
	QTE	Termostato base elettronico con selettore di velocità e stagione <i>Base electronic thermostat with speed and season selector</i>
	i-Com	Controllo base con selettore di velocità e stagione (senza gestione della temperatura ambiente) <i>Base control with speed and season selector (without room temperature control)</i>
	i-Basic 1	Termostato base elettronico con selettore di velocità e stagione <i>Base electronic thermostat with speed and season selector</i>
	i-Basic 3	Termostato elettronico con selettore di velocità, stagione e DIP-SWITCH di programmazione <i>Base electronic thermostat with speed and season selector and programming DIP switch</i>
TERMOSTATI EVOLUTI - ADVANCED THERMOSTATS 	i-Digit 2	Cronotermostato elettronico parametrico con display LCD e protocollo Modbus <i>Electronic parametric chronothermostat with LCD display and Modbus protocol</i>
	i-30	Termostato elettronico parametrico con display LCD <i>Electronic parametric thermostat with LCD display</i>
	i-50	Termostato elettronico parametrico con display LCD <i>Electronic parametric thermostat with LCD display</i>
	i-70	Termostato elettronico touch parametrico con display LCD, protocollo Modbus e Bacnet <i>Electronic parametric touch thermostat with LCD display, Modbus and Bacnet protocol</i>
	503FA	Termostato elettronico parametrico da incasso con display LCD <i>Built-in electronic parametric thermostat with LCD display</i>
	NEXIO	Controllo elettronico di temperatura con protocollo KNX; abbinabile ad interfaccia da parete touch con display LCD <i>Electronic temperature control with KNX protocol; compatible with wall-mounted touch interface thermostat with LCD display</i>
	TRI/F1 2.0	Controllo elettronico di temperatura con protocollo Modbus; abbinabile a telecomando (IR-C) o a interfaccia da parete (RWI ECM1-2) <i>Electronic temperature control with Modbus protocol; compatible with remote control (IR-C) or wall-mounted interface (RWI ECM1-2)</i>
TERMOSTATI EVOLUTI + APP - ADVANCED THERMOSTATS + APP 	i-80	Cronotermostato elettronico touch parametrico con display, protocollo Modbus e connettività Wi-Fi per gestione tramite App <i>Electronic parametric touch chronothermostat with display, Modbus protocol, and Wi-Fi connectivity for App-based control</i>
	i-90	Cronotermostato elettronico touch parametrico con display a colori e connettività Wi-Fi per gestione tramite App <i>Electronic parametric touch chronothermostat with color display and Wi-Fi connectivity for App-based control</i>
APP VENTILCLIMA - VENTILCLIMA APP 		
APP VENTILCLIMA		Controllo elettronico di temperatura con connettività Wi-Fi per gestione tramite App <i>Electronic temperature control with Wi-Fi connectivity for App-based management</i>
SISTEMI DI SUPERVISIONE - BMS SUPERVISION SYSTEMS 		
EFLO		Sistema di gestione centralizzata di reti di ventilconvettori, idoneo per applicazioni civili e terziarie quali abitazioni, uffici, strutture collettive, B&B e complessi alberghieri <i>Centralized management system for fan coil networks, designed for residential, office, and hospitality applications, from homes to shared spaces, B&Bs, and large hotels</i>



- (1) Solo montato su mobile versione V-M - Only mounted on cabinet version V-M
- (2) Solo montato su mobile versione A-M / A-MF - Only mounted on cabinet version A-M / A-MF
- (3) Montato su mobile versione V-M oppure a parete - Mounted on cabinet version V-M or wall-mounted
- (4) Montato su mobile versione A-M / A-MF oppure a parete - Mounted on cabinet version A-M / A-MF or wall-mounted

———— Compatible
Compatible
Compatible
Kompatibel
Compatible

----- Non compatible
Not compatible
Non compatible
Nicht kompatibel
NO compatible



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