ROMEO-ECM

Ultra-thin profile tangential fan coil unit

Product Catalog

Rel. 23_24_01_04_EN

Ventilclima®

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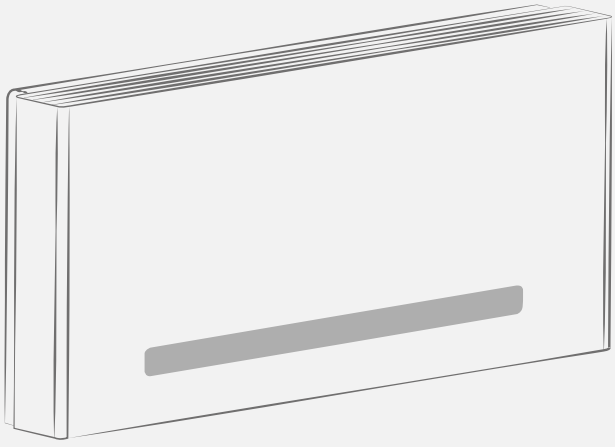
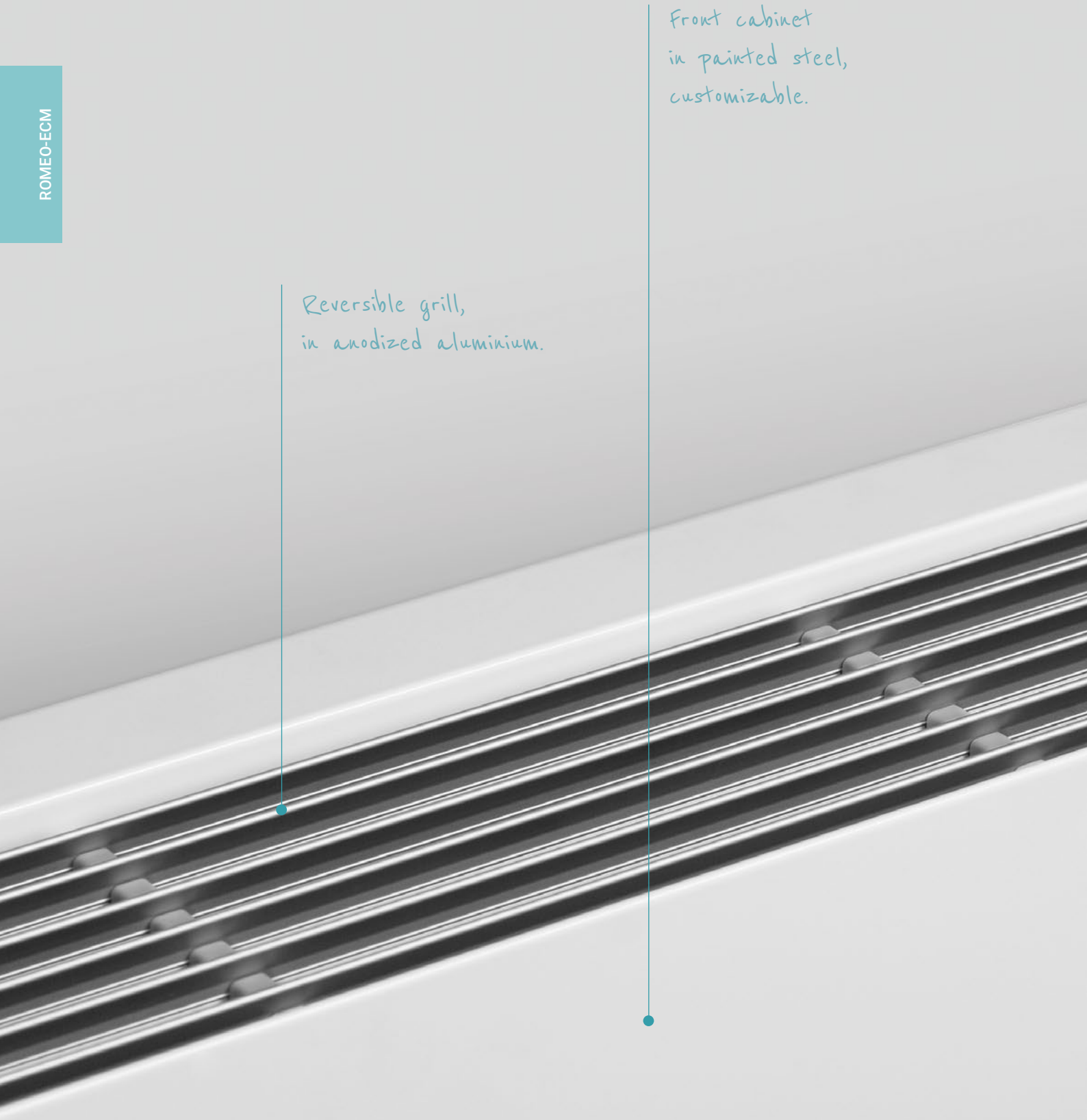


Born from passion, ready to shine



Functionality and options always depend on the type of configuration chosen when ordering.

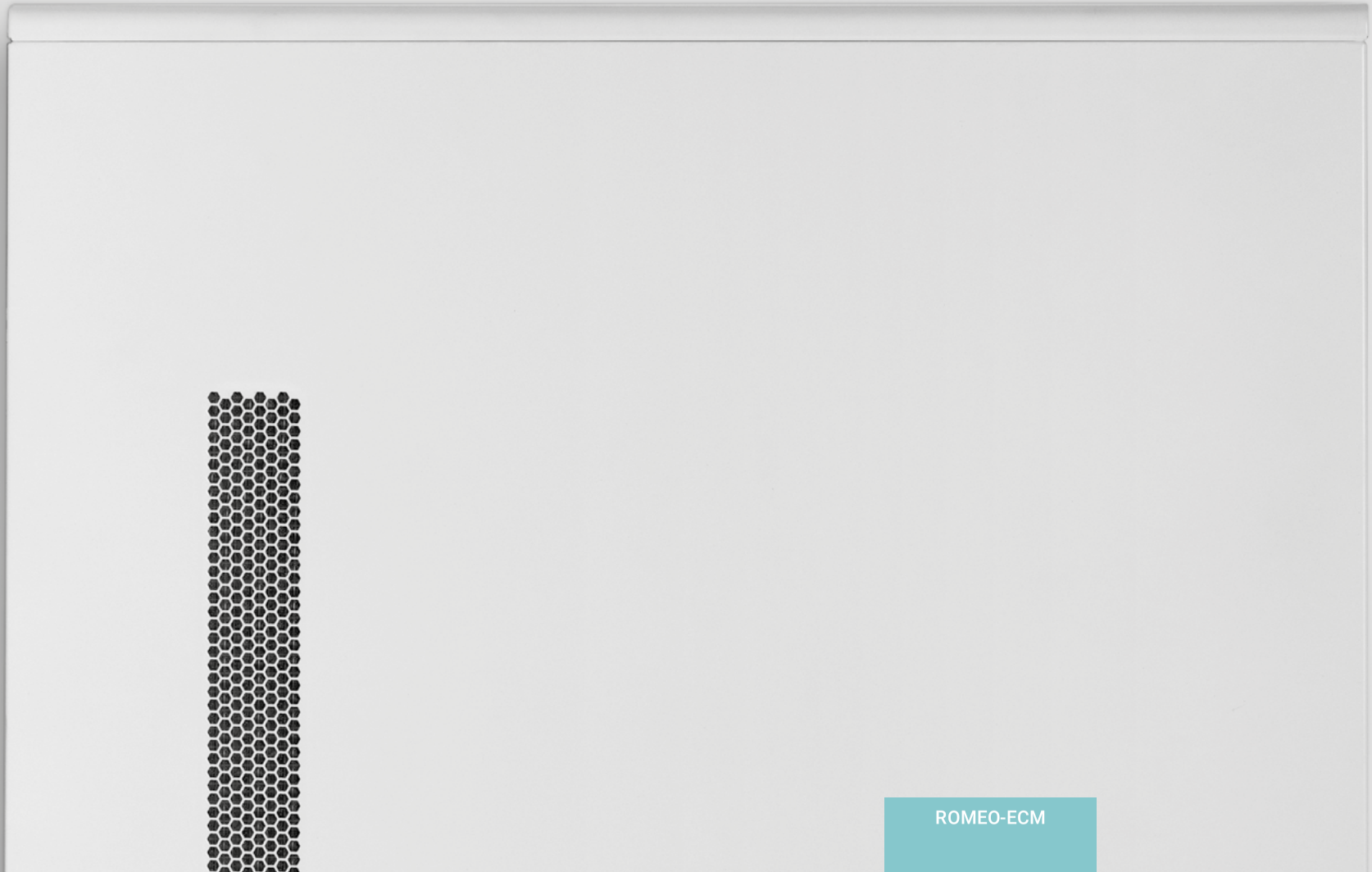
Advanced
Touch Control.

Modbus, Bacnet, KNX
connectivity.

Refined design,
minimal style.

Wi-Fi and Bluetooth
connection.

Slim, unique, beautiful



Construction features

Sophisticated design and technology:
Romeo is the perfect combination of innovation and design, where the technological choices adopted allow for maximum comfort, extreme compactness and maximum silence. The ultra-compact thickness of just 127mm, combined with a minimal design, guarantees perfect integration of the unit in any application context.

Structure:
made of 1mm thick Z200 hot-dip galvanized steel, suitably shaped to ensure structural rigidity. Internally insulated on the parts touched by the heat transfer fluid with closed cell polyolefin based insulation. Condensation tray in hot-dip galvanized and painted steel, insulated with an EPS profile, directly connected to the auxiliary tray equipped with an external Ø16 drain.

Decorative cabinet:
made of hot-dip galvanized steel powder-coated in matt white RAL 9016 (other optional colors on request). The upper delivery grille is made of anodized extruded aluminium, and is reversible to better direct the air flow. In the front part of the casing there is the stabilizing adduction, which allows the motion of the fan to be harmonized, reducing the generation of noise from the tangential fan.

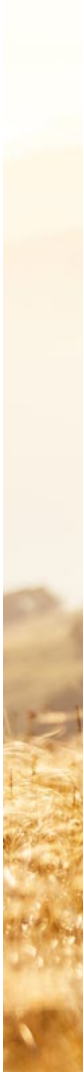
Filter:
Regenerable filter kit, with galvanized steel frame and polypropylene filter fabric, inserted in fixed guides that allow easy extraction.

Coils:
in copper tube with continuously packed aluminum fins locked onto the tubes by mechanical rolling. Brass manifolds with Ø 1/2" female gas connections and easily accessible air vent valves. The standard position of the connections is on the left (looking at the unit from the front) and can be reversed with the relevant kit (optional). The desired connection side must be specified when ordering, considering the connection reversal is less easy if carried out on site. The heat exchange coil is not suitable for use in corrosive atmospheres.

High energy saving:
a fundamental aspect is the high energy saving made possible through the use of an exclusive inverter motor which allows a significant optimization of air flow rates and a reduction in energy consumption.

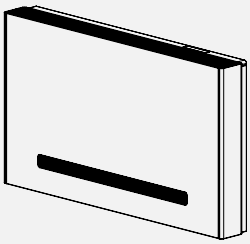
Low noise emissions:
the main peculiarity of the series lies in the ability to reach the conditions desired by the user quickly and dynamically, maintaining them through intelligent modulation of the air flow rate which favors low ventilation speeds, to the direct benefit of the user's psychophysical comfort, guaranteed by low noise emissions.

Advanced control:
advanced and integrated Touch-type control system, equipped with Wi-Fi and Bluetooth connection (optional) which allows the management of environmental comfort remotely via the relevant App. Furthermore, perfect integration with home automation and centralized management systems is always guaranteed, with Modbus (integrated) or Bacnet and KNX (optional) communication protocols.



Versions

M



Frontal cabinet version
Vertical installation
Bottom air intake

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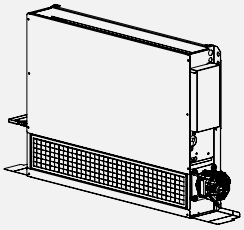
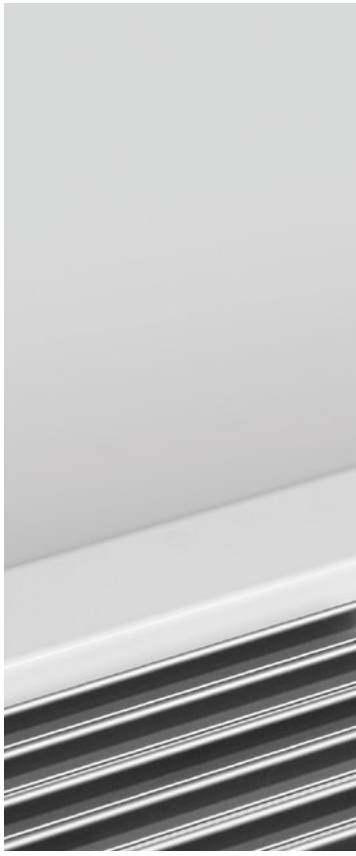
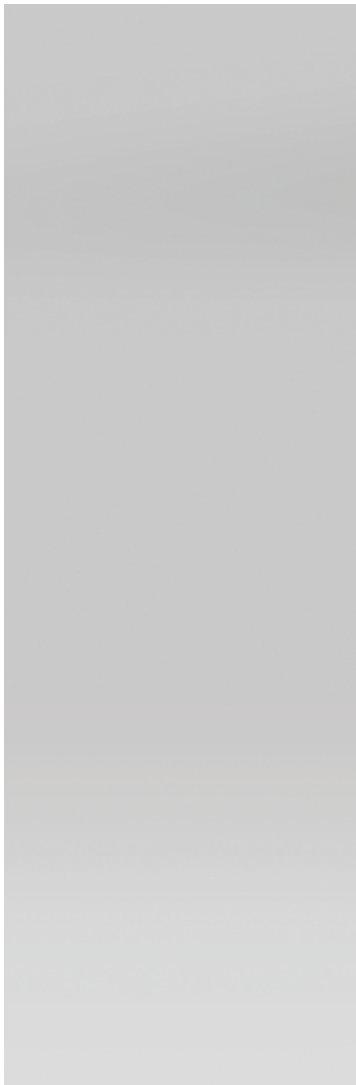


Concealed version
Vertical installation
Bottom air intake





Performance technical data

2 tubi - pipes - tubes Leiter - tubos	3R scambiatore - coil - batterie Wärmetauscher - batería			1	2	3	4	5	6
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	W	10,0	**915**	**2000**	**2789**	**3384**	**3800**	**4467**
		W	7,5	829	1785	2471	2996	3365	3869
		W	5,0	**696**	**1490**	**2042**	**2526**	**2837**	**3192**
		W	3,5	592	1274	1731	2205	2476	2751
		W	2,0	**471**	**1030**	**1380**	**1855**	**2083**	**2287**
		W	1,0	381	851	1124	1605	1802	1965
	Potenza frigorifera sensibile Sensible cooling capacity Puissance frigorifique sensible Sensible Kälteleistung Potencia frigorífica total sensible	W	10,0	**746**	**1580**	**2126**	**2507**	**2816**	**3318**
		W	7,5	664	1387	1848	2189	2458	2836
		W	5,0	**548**	**1140**	**1507**	**1819**	**2043**	**1989**
		W	3,5	449	959	1276	1585	1780	1963
		W	2,0	**354**	**769**	**1009**	**1343**	**1508**	**1642**
		W	1,0	286	635	818	1154	1296	1419
	Portata acqua Water flow Débit d'eau Wassermenge Flujo de agua	l/h	10,0	157	344	480	582	653	768
		l/h	7,5	143	307	425	516	579	665
		l/h	5,0	120	256	351	434	488	549
		l/h	3,5	102	219	298	379	426	473
		l/h	2,0	81	177	237	319	358	393
		l/h	1,0	66	146	193	276	310	338
	Perdite di carico lato acqua Water pressure drop Pertes charge côté eau Wasserseitiger Druckverlust Caídas de presión lado agua	kPa	10,0	**2,5**	**11,5**	**26,2**	**40,6**	**45,6**	**41,4**
		kPa	7,5	2,0	9,1	20,5	31,8	35,7	31,8
		kPa	5,0	**1,4**	**6,2**	**13,8**	**22,4**	**25,1**	**22,3**
		kPa	3,5	0,9	4,5	9,8	16,9	19,0	16,9
		kPa	2,0	**0,5**	**2,8**	**6,1**	**11,9**	**13,3**	**12,0**
		kPa	1,0	0,2	1,8	3,9	8,8	9,9	9,0
45/40 °C 20 °C	Potenza termica Heating capacity Puissance thermique Heizleistung Energía térmica	W	10,0	**1162**	**2368**	**3217**	**3828**	**4299**	**4886**
		W	7,5	1032	2115	2954	3333	3743	4309
		W	5,0	**872**	**1774**	**2343**	**2782**	**3124**	**3602**
		W	3,5	749	1530	1951	2424	2722	3114
		W	2,0	**600**	**1258**	**1631**	**2046**	**2298**	**2576**
		W	1,0	482	1063	1494	1783	2002	2189
	Portata acqua Water flow Débit d'eau Wassermenge Flujo de agua	l/h	10,0	200	407	553	658	739	840
		l/h	7,5	178	364	508	573	644	741
		l/h	5,0	150	305	403	479	537	620
		l/h	3,5	129	263	336	417	469	536
		l/h	2,0	103	216	281	352	395	443
		l/h	1,0	83	183	257	306	344	376
	Perdite di carico lato acqua Water pressure drop Pertes charge côté eau Wasserseitiger Druckverlust Caídas de presión lado agua	kPa	10,0	**3,5**	**13,1**	**28,2**	**42,2**	**47,4**	**43,2**
		kPa	7,5	2,7	10,3	23,7	31,8	35,7	33,9
		kPa	5,0	**1,9**	**7,2**	**14,7**	**22,0**	**24,7**	**24,1**
		kPa	3,5	1,4	5,3	10,1	16,6	18,6	18,3
		kPa	2,0	**0,9**	**3,6**	**6,9**	**11,7**	**13,1**	**12,7**
		kPa	1,0	0,6	2,4	5,8	8,8	9,9	9,3
	Portata aria Air flow Débit d'air Luftstrom Flujo de aire	m³/h	10,0	217	395	523	610	685	753
		m³/h	7,5	183	345	463	513	576	642
		m³/h	5,0	146	276	353	411	461	518
		m³/h	3,5	122	231	286	349	392	437
		m³/h	2,0	90	181	227	279	314	344
		m³/h	1,0	66	137	187	220	247	256
	Livello di potenza sonora Sound power level Niveau de puissance sonore Schall-Leistungpegel Nivel de potencia acústica	dB(A)	10,0	**49**	**52**	**53**	**51**	**57**	**53**
		dB(A)	7,5	46	48	48	46	52	49
		dB(A)	5,0	**40**	**42**	**42**	**40**	**45**	**43**
		dB(A)	3,5	36	38	39	37	42	40
		dB(A)	2,0	**31**	**35**	**35**	**33**	**38**	**37**
		dB(A)	1,0	28	32	32	31	34	33
	Livello di pressione sonora Sound pressure level Niveau de pression sonore Schall-Druckpegel Nivel de presión sonora	dB(A)	10,0	40	43	44	42	48	44
		dB(A)	7,5	37	39	39	37	43	40
		dB(A)	5,0	31	33	33	31	36	34
		dB(A)	3,5	27	29	30	28	33	31
		dB(A)	2,0	22	26	26	25	29	28
		dB(A)	1,0	19	23	23	22	25	24

- **Unità standard a bocca libera:** pressione statica esterna = 0 Pa / Il test per la rilevazione del livello di potenza sonora è stato eseguito in accordo con la **normativa EN 16583:2015**/ **Livello di pressione sonora:** considerata 8,6 dB(A) inferiore rispetto alla potenza sonora in una stanza di 90 m³ con un tempo di riverbero di 0,5 sec. / **Valori tensione ammissibile:** ~230V / 1ph / 50-60Hz
- **Standard unit with free outlet:** external static pressure = 0 Pa / The sound power level test has been performed **according to EN 16583:2015 standard** / **Sound pressure level:** 8,6 dB(A) lower that the sound power level for a room of 90 m³ with a reverberation time of 0,5 sec. / **Supported power supply:** ~230V / 1ph / 50-60Hz
- **Unité standard avec sortie libre:** pression statique externe = 0 Pa / Le test de détection du niveau de puissance acoustique a été réalisé conformément à la norme EN 16583: 2015 / **Niveau de pression sonore:** considéré de 8,6 dB(A) plus faible que le niveau de puissance acoustique d'une pièce de 90 m³, avec un temps de réverbération de 0,5 sec. / **Valeurs de tension admissibles:** ~230V / 1ph / 50-60Hz
- **Standard Einheit mit offenem Auslass:** externer statischer Druck = 0 Pa / Der Test zur Erfassung des Schallleistungspegels wurde gemäß der Norm EN 16583: 2015 durchgeführt / **Schall-Druckpegel:** Schall-Druckpegel: 8,6 dB (A) unter dem Schalldruck in einem Raum von 90 m³ mit einer Nachhallzeit von 0,5 s. / **Unterstützte Stromversorgung:** ~230V / 1ph / 50-60Hz
- **Unidad estándar con salida libre:** presión estática externa = 0 Pa / La prueba de nivel acústico se realizó de acuerdo con la **norma EN 16583:2015** / **Nivel de presión sonora:** se considera 8,6 dB (A) inferior a la potencia acústica en una sala de 90 m³ con un tiempo de reverberación de 0,5 seg. / **Valores de voltaje admisibles:** ~230V / 1ph / 50-60Hz

velocità cablate / wired speed / vitesse câblée / verkabelte Geschwindigkeitsstufe / velocidades cableadas

Performance technical data

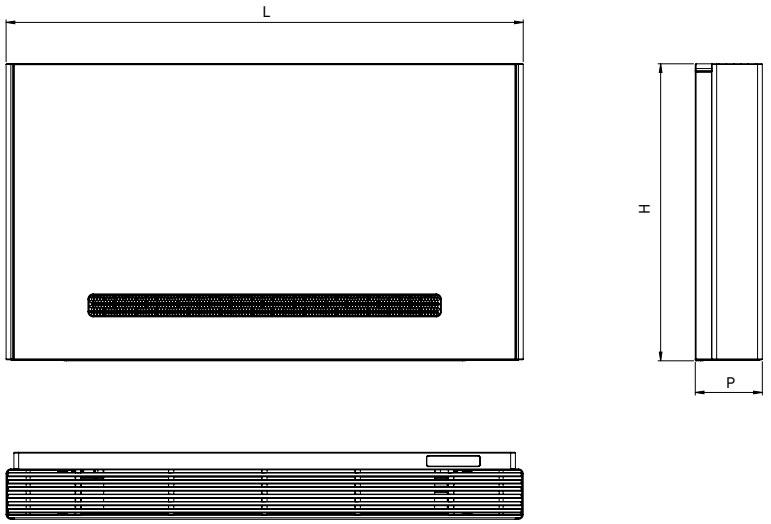
Motore ECM - ECM motor Moteur ECM - ECM-Motor - Motor ECM			1	2	3	4	5	6
Potenza assorbita dal motore del ventilatore Motor fan absorbed power Puissance absorbée par le moteur de ventilateur Vom Lüftermotor aufgenommene Leistung Potencia absorbida por el motor del ventilador	W	10,0	**10**	**17**	**22**	**26**	**29**	**34**
	W	7,5	8	15	14	17	19	22
	W	5,0	**6**	**10**	**9**	**11**	**12**	**14**
	W	3,5	5	7	7	8	9	10
	W	2,0	**4**	**6**	**5**	**6**	**6**	**8**
	W	1,0	3	5	4	5	5	7
Corrente assorbita dal motore del ventilatore Motor fan absorbed current Courant absorbé par le moteur du ventilateur Vom Lüftermotor aufgenommener Strom Corriente absorbida por el motor del ventilador	A	10,0	**0,14**	**0,18**	**0,20**	**0,23**	**0,26**	**0,33**
	A	7,5	0,10	0,16	0,14	0,15	0,17	0,20
	A	5,0	**0,07**	**0,11**	**0,09**	**0,11**	**0,12**	**0,14**
	A	3,5	0,07	0,08	0,08	0,09	0,10	0,12
	A	2,0	**0,06**	**0,07**	**0,07**	**0,08**	**0,09**	**0,10**
	A	1,0	0,05	0,06	0,06	0,07	0,08	0,08
Tensione di controllo velocità (Vcc) Speed control voltage (Vdc) Tension de contrôle de vitesse (Vcc) Drehzahlregelspannung (Vcc) Voltaje de control de velocidad (Vcc)	Vdc	10,0	10,0	10,0	10,0	10,0	10,0	10,0
	Vdc	7,5	7,5	7,5	7,5	7,5	7,5	7,5
	Vdc	5,0	5,0	5,0	5,0	5,0	5,0	5,0
	Vdc	3,5	3,5	3,5	3,5	3,5	3,5	3,5
	Vdc	2,0	2,0	2,0	2,0	2,0	2,0	2,0
	Vdc	1,0	1,0	1,0	1,0	1,0	1,0	1,0
Tensione di alimentazione Power supply Tension d'alimentation Stromversorgung Tensión de alimentación			~230V / 1ph / 50-60Hz					

velocità cablate / wired speed / vitesse câblée / verkabelte Geschwindigkeitsstufe / velocidades cableadas

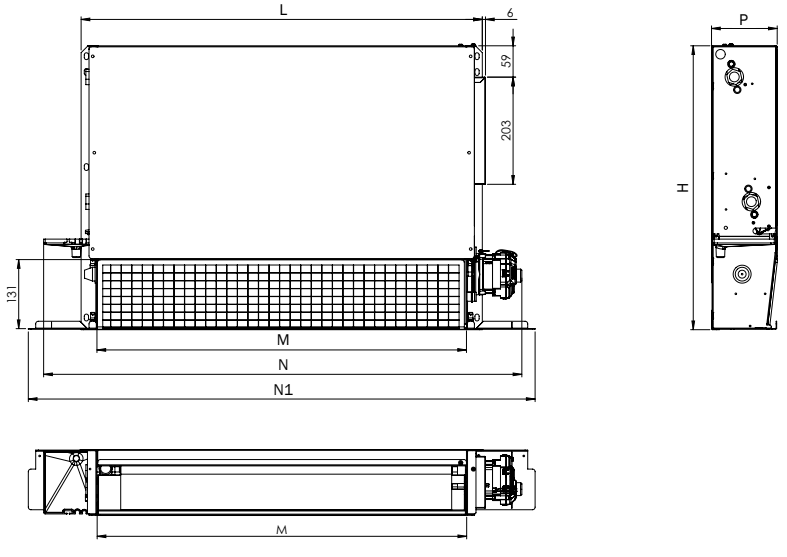
Dimensions

Con mobile / With cabinet Avec carrosserie / Mit Gehäuse / Con mueble			1	2	3	4	5	6
Lunghezza / Lenght / Longueur / Länge / Longitud	L	mm	580	780	980	1180	1180	1350
Altezza / Height / Hauteur / Höhe / Altura	H	mm	562	562	562	562	562	562
Profondità / Depth / Profondeur / Tiefe / Profundidad	P	mm	127	127	127	127	127	127
Senza mobile / Without cabinet Sans carrosserie / Ohne Gehäuse / Sin mueble			**1**	**2**	**3**	**4**	**5**	**6**
Lunghezza / Lenght / Longueur / Länge / Longitud	L	mm	360	560	760	960	960	1130
Altezza / Height / Hauteur / Höhe / Altura	H	mm	538	538	538	538	538	538
Profondità / Depth / Profondeur / Tiefe / Profundidad	P	mm	124	124	124	124	124	124
	M	mm	300	500	700	900	900	1070
	N	mm	510	710	910	1110	1110	1280
	N1	mm	560	760	960	1160	1160	1330

Con mobile / With cabinet / Avec carrosserie / Mit Gehäuse / Con mueble



Senza mobile / Without cabinet / Sans carrosserie / Ohne Gehäuse / Sin mueble



21.5

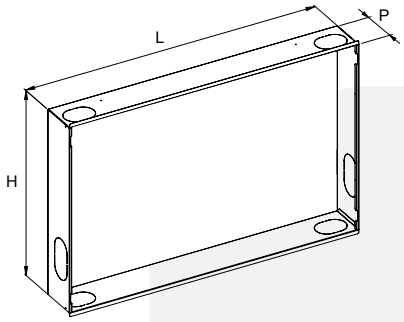
WHITE

Frontal casing
and side panels in steel,
opaque white RAL 9016.
Anodized aluminum grille.

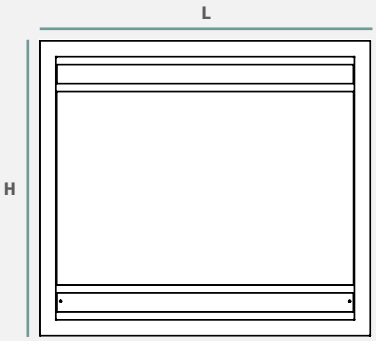
CUSTOM

Special colors and finishes on specific customer's request.

Pannello incasso



MNFP-R



	technical spaces size	front panel size
MOD. 1 - 2	780 x 140 x (H)690	840 x 7 x (H)750
MOD. 3	1080 x 140 x (H)690	1140 x 7 x (H)750
MOD. 4 - 5	1230 x 140 x (H)690	1290 x 7 x (H)750
MOD. 6	1380 x 140 x (H)690	1440 x 7 x (H)750

The ROMEO-I version can be installed in the vertical recessed version via the specific niche and related front panel, available in four dimensional sizes in order to satisfy the most varied application needs.

This installation method, in addition to guaranteeing perfect integration of the unit within the environment, allows you to recover more living space, offering the possibility of confining the unit and all possible accessories inside the niche, specifically sized to ensure total accessibility during installation and maintenance phases.

ROMEO-I Concealed panel versions	
MNFP-R	Panel for vertical and horizontal units, of limited thickness (7 mm only), made of hot-dip galvanized steel powder coated in white RAL 9003 color with directional air delivery flap. The whole can be painted on site with the same color as the wall.

All the panels listed above can be supplied, on request, also in other colors or with special finishes.

RC Connections

Integrated control electronics supervisable via Modbus, Bacnet* or KNX*.

Integrated control electronics managed by WiFi and Bluetooth.

Remote control electronics managed by App.

The images above, by way of example and not exhaustive, represent the possibility of controlling the unit remotely directly from a smartphone, tablet or PC. The control functions and dynamics always depend on the configuration of the unit and the type of optional chosen when ordering.

23_24_01_04_ROMEO_Catalogo Prodotto_Ventilclima_IT

Ventilclima®
a trademark of A GROUP

A GROUP S.p.A.

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www.aliseogroup.com

NC Connections

Suitable for connection with wall thermostat**.

Suitable for connection with Bacnet and KNX controllers**.

** Requires pairing with protocol converter, not included*
** *Not included.*

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