



 ventilclima[®]

Product Catalog

Rel. 24_01_04



Product catalog

Rel. 00_24_01_04

Index

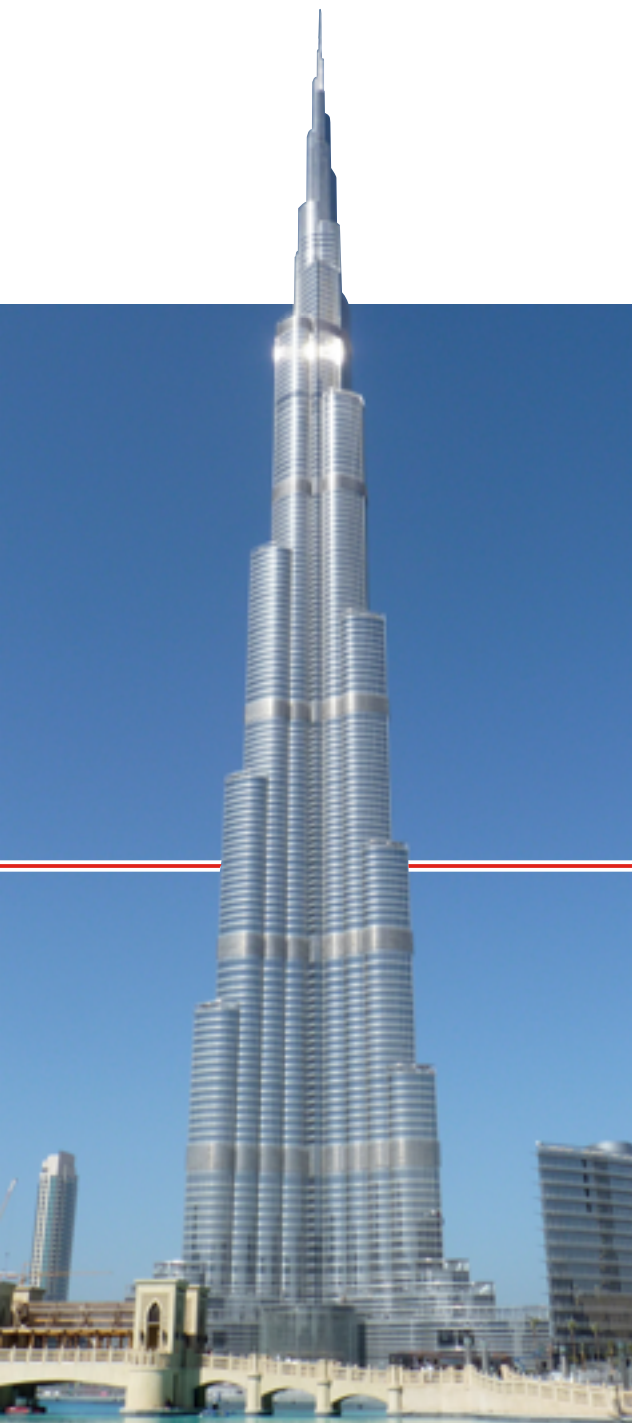
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A reliable partner for a prestigious choice



References and projects developed by Aliseo Group brands

BURJ TOWER - DUBAI, U.A.E. • YAS MARINA HOTEL - ABU DHABI, U.A.E. • BURJ AL ARAB - DUBAI
EMIRATES ENGINEERING CENTER - DUBAI, U.A.E. • ROSEWOOD HOTEL - ABU DHABI, U.A.E. • W
ZA, QATAR • MUSCAT AIRPORT - MUSCAT, OMAN • BAHRAIN CITY CENTER - BAHRAIN • DUBAI
NO • PALAZZO REALE VENARIA - TURIN • "S. RAFFAELE" HOSPITAL - ROMA • PIRELLI, SETTIMO



AI, U.A.E. • MINISTRY OF DEFENCE - ABU DHABI, U.A.E. • DUBAI MALL PROJECT - DUBAI, U.A.E. •
WORLD TRADE CENTER, QATAR • AL WAKRA HOSPITAL, QATAR • BUSINESS PARK CROWN PLA-
EQUINE HOSPITAL FOR H H SHK MOHAMMED - DUBAI • BASE NATO EUROPE DISTRICT - AVIA-
O TORINESE - TURIN • BANCA D'ITALIA - GENOVA • UNIVERSITY - MILAN • PALAVELA - TURIN

A complete range of solutions for any comfort needs



References and projects developed by Aliseo Group brands

BMW WORKS - MÜNICH, GERMANY • MERCEDES BENZ WORKS - STUTTGART, GERMANY • STEELWORKS - MÜNICH, GERMANY • CARTIER PALACE - AMSTERDAM, NETHERLANDS • UNIVERSITY OF SCIENCES - MADRID, SPAIN • ESPANOLA S.A. TELEVISION - MADRID, SPAIN • WILHEMIN HOSPITAL - WIEN, AUSTRIA • BUILDING OF SWISS GOVERNMENT EDA - BERN, SWITZERLAND • PHILIP MORRIS FACTORY, SWITZERLAND



WIND NORDENHAM GMBH - GERMANY • MÜNICH, GERMANY • MÜNCHEN HOSPITAL - HARLACHING, GERMANY • AMSTERDAM, NETHERLANDS • GENERAL HOSPITAL - MADRID, SPAIN • TORRE DE CRISTAL - MADRID, SPAIN • HILTON HOTEL - WIEN, AUSTRIA • COURTHOUSE - WIEN, AUSTRIA • AIRPORT - WIEN, AUSTRIA • AIRPORT - BERLIN, GERMANY • NEW ØRESUND BRIDGE - SWEDEN • SWEDISH ROYAL THEATRE - STOCKHOLM, SWEDEN •

A reliable partner for a prestigious choice



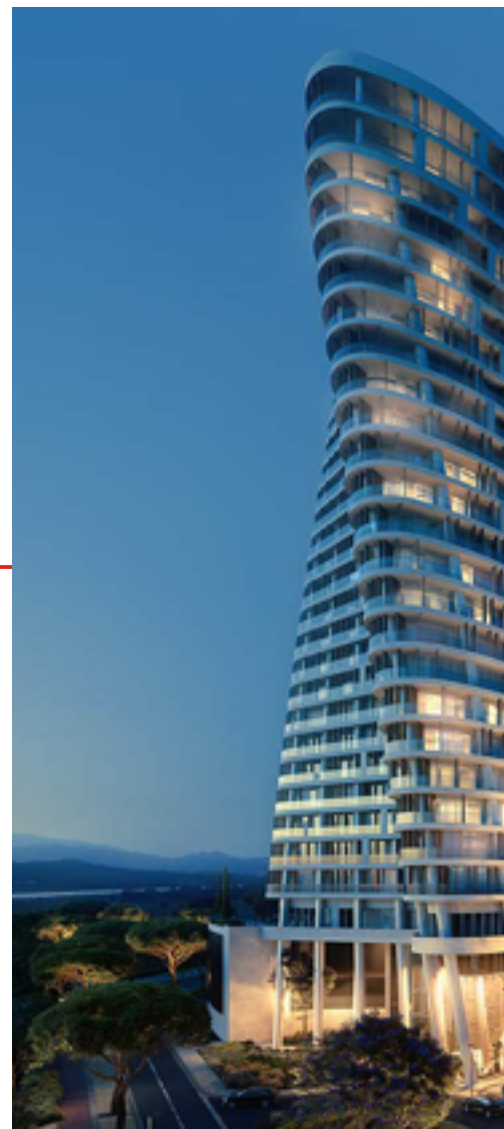
References and projects developed by Aliseo Group brands

MASERATI WORKS - MODENA • AERMACCHI WORKS - VARESE • DIESEL - VICENZA • DIADORA WORKS - MODENA • MUSEUM - VENICE • INSTITUTE OF PHOTONICS - MILAN • INSTITUTE OF NUCLEAR PHYSICS - FLORENCE • UNIVERSITY - NONE • AIRPORT - PISA • METRO - MILAN • UNIVERSITY - SAVONA • HOSPITAL - MILAN • S.S. GIOVANNI PAOLO II - VERONA • AIRPORT - OLBIA • BAULI CONFECTIONERY - VERONA • BARILLA FOOD INDUSTRY - MELFI • M



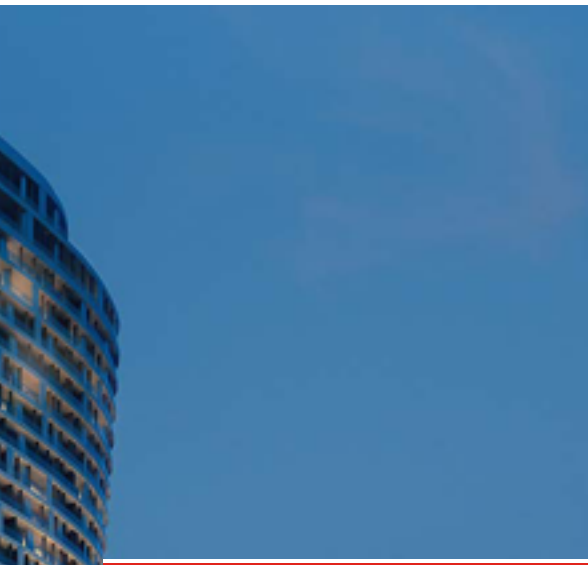
WORKS - TREVISO • DUCATI MOTORS - BOLOGNA • FERRARI STORE - MARANELLO • CORRER MU-
CE • VENDRAMIN PALACE - VENICE • "MOLINO STUCKY" GRAND HOTEL - VENICE • NESTLE' - FROSI-
VANNI AND PAOLO CIVIL HOSPITAL - VENICE • S. PAOLO STADIUM - NAPLES • UNIVERSITY - VERO-
NEGRONI FOOD INDUSTRY - CREMONA • YOMO FOOD INDUSTRY - MILAN • FIAT WORKS - TURIN •

Quality and knowledges, supporting your goals



References and projects developed by Aliseo Group brands

HOSPITAL OF MANERBIO - BRESCIA • SAN CAMILLO HOSPITAL - ROME • CISANELLO HOSPITAL - PISA
HOSPITAL DE DIA ONCOLOGIA - PORTUGAL • HOSPITAL LA PAZ - SPAIN • HOSPITAL DO MARCO DE C
HOSPITAL DE ALVAIÀZERE - PORTUGAL • AL SABAH HOSPITAL, KUWAIT • HOSPITAL SOUTHMEAD - E
FRESENIUS KABI - ITALY • GROUP SAIDAL INDUSTRIE PHARMACEUTIQUE – ITALY • AUROBINDO PHAR



• HOSPITAL - UDINE • HOSPITAL RUZOMBEROK - CZECH REPUBLIC • HOSPITAL ROOMS - ROMANIA • CANAVESES - PORTUGAL • LARNACA HOSPITAL - CYPRUS • ONCOLOGICAL HOSPITAL - BULGARIA • ENGLAND • HOSPITAL WITHY BUSH - ENGLAND • HOSPITAL MATER DEI ONCOLOGY CENTRE - MALTA • MA - MALTA • DR. SULAMAIN HOSPITAL, SAUDI ARABIA • AL SILLA COMMUNITY HOSPITAL - DUBAI •

THE POWER OF THE GROUP



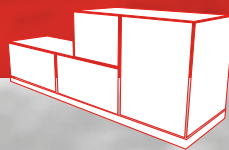


Aliseo Group is a 100% Italian industrial company that offers a complete range of solutions to ensure the desired climate and air quality for all requirements regarding air conditioning, heating, filtration and energy recovery.

Ventilclima[®]
FAN COIL UNITS



MEKAR[®]
AIR HANDLING UNITS



ROYAL GULF
an Aliseo enterprise

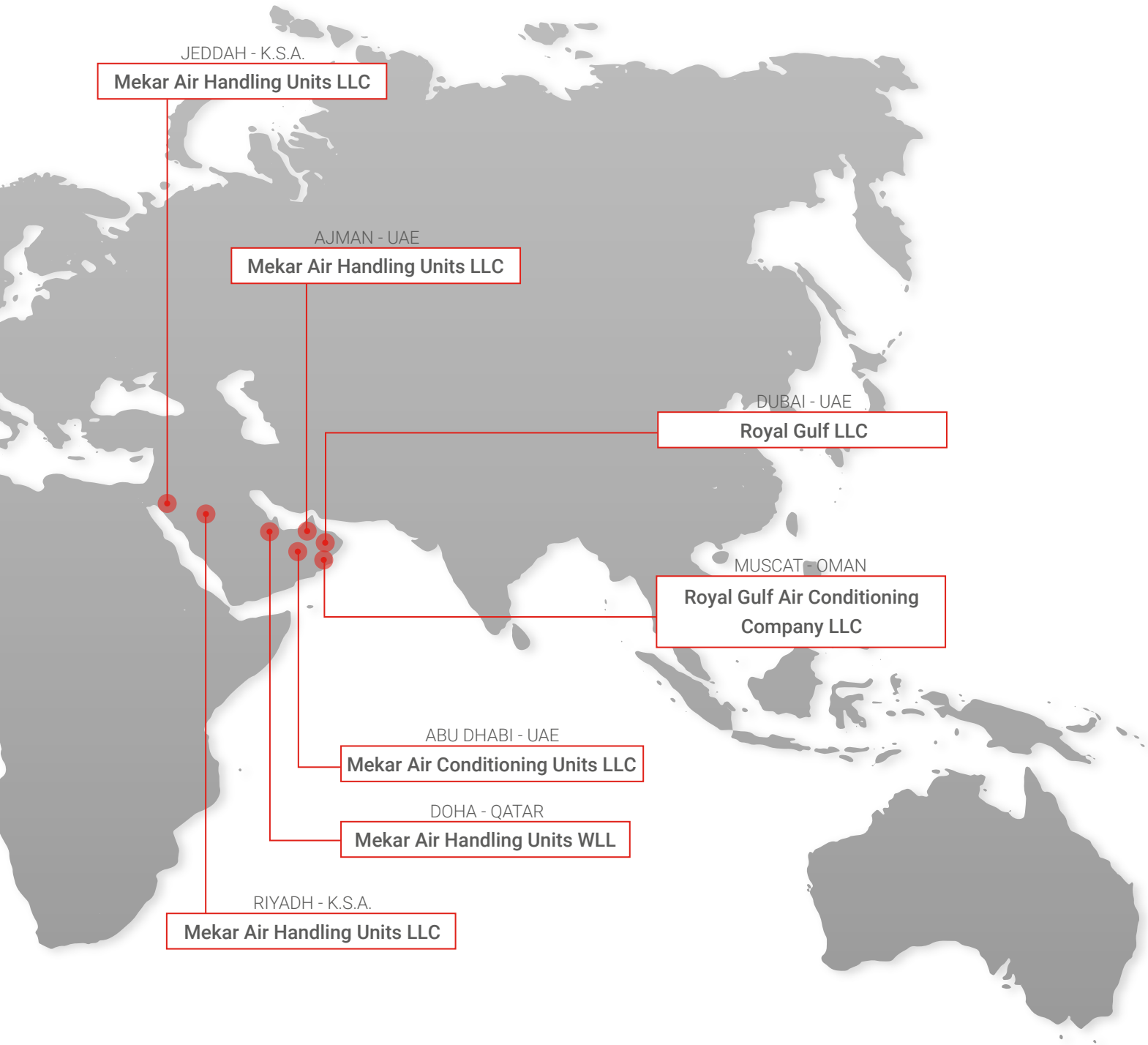


Business Location



TREVISO - ITALY
A Group SpA (Ventilclima)

VERONA - ITALY
Mekar Srl





Mission



Our mission

Our mission is clear: to remain faithful to our values and ethical principles that since 1974 have allowed us to grow by doing what we do best: improving the quality of life of our customers, offering optimal comfort guaranteed by innovative solutions and informed decisions.

2024 is an important year for the Group, as it celebrates its 50th anniversary. In these fifty years, we have dedicated ourselves every day to the research, design and production of entirely Made in Italy solutions, aimed at providing efficient, high-performance products that improve people's psychophysical well-being and ensure greater environmental sustainability.



Over the years we have adapted and evolved, but our essence has remained integral.

We always get back in the game to better understand the needs of our customers, and we are proud to realize that our values and know-how have won us the trust of a vast and demanding international clientele. Our customers see us as a reliable partner who can supply the most valuable thing in a building: comfort.

Our experience, perseverance and total dedication to full customer satisfaction - ensured by the human capital of our team - have allowed us to achieve important goals over the years, including the privilege of being chosen as the ideal partner in hundreds of projects of unquestionable prestige and international fame.



Applications



Innovative solutions, for every kind of need

The experience and know-how acquired in over 45 years of activity in the sector, wide-ranging flexibility and dynamism that has always characterized our company's DNA and the ever increasing attention paid to the human capital that makes up our team, have garnered us recognition on the market today as a reliable player who offers fully customized solutions according to customer specifications.

Thanks to our engineering, a research laboratory and partnership with the foremost European laboratories, we respond to all sorts of needs, whether it involves air treatment for comfort purposes or specific areas such as industry, manufacturing, naval, hospital, food or oil & gas, where durability, reliability and full operation must always be guaranteed.

With dedication and passion we know how to listen to the needs of our customers, and supply turnkey solutions, guaranteed by years of experience in the sector and by products designed, developed and manufactured entirely in Italy.



Residential



Business



Public



Industrial



Naval



Chemical



Enology



Museum



Hospital



Food



Process



Pharmaceutical



Customized solutions



Customized solutions, without limits

Flexibility and expertise in providing customized solutions are characteristics that have always distinguished our Group.

Thanks to over 45 years of experience, a trained technical staff and a dynamic and flexible production department, we are able to satisfy the most varied requests of customers, guaranteeing a broad range of customization, from a purely aesthetic aspect to products with specific finishes, up to more advanced solutions that affect the thermodynamic, mechanical and aeraulic environment. All guaranteed by high-precision design process with a corresponding feasibility study.



Applications include dedicated installations in buildings subject to constraints, such as museums or historic buildings, where it is necessary to provide customized solutions that comply with various restrictions such as dimensional limits, accessibility, low noise, a discreet aesthetic impact or stringent requirements in terms of safety and fire-resistance. Then there might be more complex units in which a cooling circuit is combined with the aeraulic system to offer compact and efficient solutions for specific application areas in which it is not possible to operate with standard solutions.



Quality



Quality and performance, certified

Our goal is total customer satisfaction, which is why we have always rigorously applied a meticulous and constant method to improve our products and processes, in terms of performance, a highly focused research and development phase backed up by advanced tools for testing and verification and, finally, reliable control of the entire company process certified according to ISO 9001.



A GROUP S.p.A (Trademark VENTILCLIMA)
participates in the ECP programme for FCU.
Check ongoing validity of certificate:
www.eurovent-certification.com

Certificate no. 03.01.094
Fan Coil Units



Certificate no. 1368/6

EA Activity: 18
Design, production and assistance of air conditioning and refrigeration equipment: fan coil units, ventilated convectors, ductable units, heat recovery units, liquid chillers, heat pumps, roof top units and condensing units.

CE marking

The products comply with the requirements of the European Union directives.



Noiselessness



Noiselessness, psychophysical wellbeing

Excellent psychophysical well-being can only be achieved if climate comfort and adequate filtration are guaranteed by solutions that operate with minimal noise emissions.

Today, **Ventilclima** is recognized on the market as a reference player in providing solutions that comply with this important and sensitive aspect that significantly affects the quality of the environment where the occupant resides.

Full confirmation of our know-how and capabilities is primarily reflected by the countless highly prestigious orders we have received for luxury hotels, museums, executive offices, resorts, theaters and public places in general in which **Ventilclima** is chosen as the ideal partner to provide demanding customers with the best conditions of comfort, while also minimizing noise emissions.

High-performance products that are efficient and quiet could only be supplied by a long and complex process of research and development, aimed at minimizing drops in pressure and turbulence generated by the air flow. This involved a high-precision study of geometries and a meticulous selection of innovative components to be validated by painstaking work in the laboratory. All of this was essential to finding the best solution for each specific application requirement.

Today, Ventilclima is on the market with a range of cutting-edge products with low noise emissions, a feature that strongly distinguishes the **AIR** fan coil series and the **LIGHT** cassette fan coil, high-end products also thanks to their superlative combination of high performance and maximum operating silence.



Safety



Comfort and well-being, in total safety

The protection of the health and safety of the occupants are essential elements for us. For this reason, we give unequivocal and indispensable priority in bringing to the market products that, in addition to providing the required comfort, also aim to protect people, especially in crowded places such as public schools, cinemas, clubs or even more sensitive places such as hospitals, military environments and logistics facilities where it is imperative to ensure full operational continuity.

It is with this objective that we work constantly, not only with a view to comply with current regulations, whether European or pertaining to a specific target market, but also in order to foresee market needs (wherever possible) and promptly introduce innovative construction techniques, the use of hi-tech, durable materials combined with advanced components to guarantee the best performance not only in terms of comfort but also in terms of safety.



Tangible application examples are the multiple types of products specifically designed for applications in public spaces, where the units have been equipped with intrinsically non-combustible insulating materials and the use of LSZH halogen-free cables, which minimize the production of opaque fumes and toxic gases. Another example are the units suitable for explosive atmospheres, distinguished by ATEX certified components.

Some implementations have required redundant components to ensure full operation even in the event of technical failures; the creation of special or armored roofing to lend a pleasant aesthetic appeal, greater resistance, the capacity to prevent tampering, maintain the dignity of the public space and the safety of the people present.



Efficiency



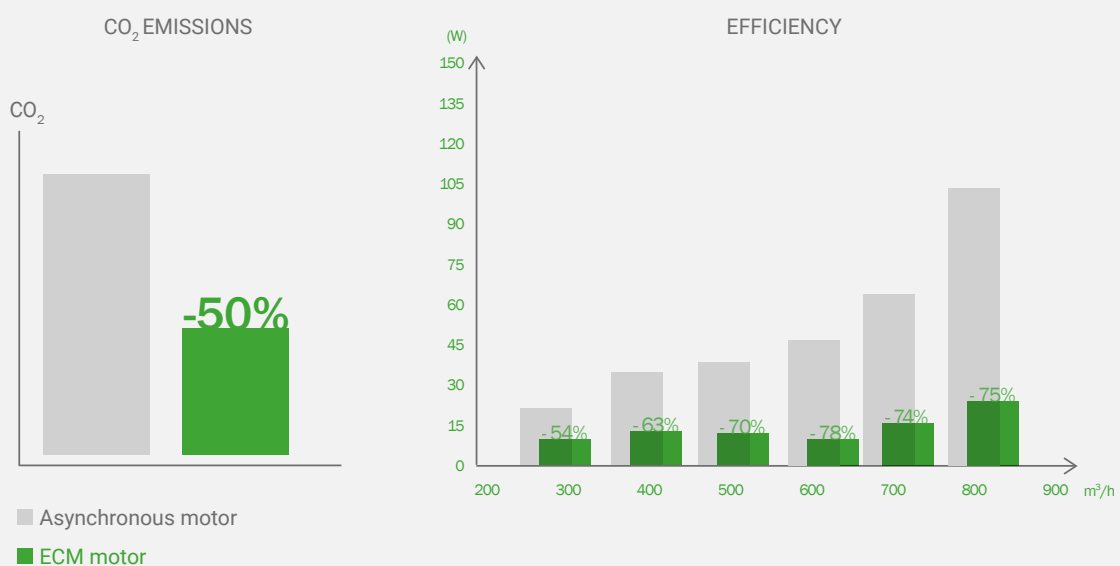
High efficiency... significant savings and respect for the environment

For us, efficiency means guaranteeing ideal comfort while curbing energy consumption to reduce operating costs and protect the environment by reducing CO₂ emissions.

To achieve this goal we rely on innovation, which we apply rigorously and consistently in our products, as we have been doing for years with the **ECM** product series.

These products are equipped with brushless motors controlled by dedicated inverters which make it possible to modulate the air flow with high precision because they supply only the amount of energy needed for the actual workload, preventing unnecessary waste.

In addition to minimizing energy consumption by more than 75% compared to traditional asynchronous motors, the units with **ECM** motors significantly improve environmental comfort through a constant variation of the air flow. The benefit is the immediate achievement of the desired thermal load and maintenance of it throughout the day, while also ensuring a quieter operation.



*The above data are purely indicative and refer to the LIGHT-ECM 600x600 cassette series.
Data may vary based on multiple variables such as working conditions, accessories and field of application.*



Support



Quality and skills, at your service

Every day we do our best to make our brand a synonym and guarantee of reliability, quality and maximum durability. This is why we work constantly to also offer a complete and professional after-sales service. Our team of specialized technicians and a network of international partners support our customers with qualified consultancies aimed at providing technical assistance and ongoing training.

Our professional after-sales service responds in a timely manner to every need, from the formulation of estimates for spare parts to the planning of technical interventions on site; technical consultancies dedicated to the creation of customized solutions, while minimizing inconvenience to the customer and guaranteeing full operation of the environments in which our products are installed.



support



analysis & consulting



installation & testing



spare parts



preventive maintenance



training



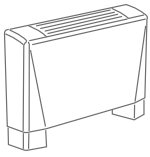
technical assistance



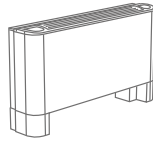
customized warranty solutions

Product range

FAN COIL UNITS



AIR | AIR-ECM



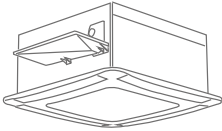
VCE | VCE-ECM

WALL MOUNTED
FAN COIL UNITS

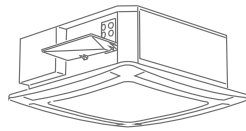


GALILEO | GALILEO-ECM

CASSETTE
FAN COIL UNITS

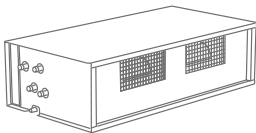


LIGHT | LIGHT-ECM
600X600

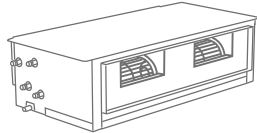


LIGHT | LIGHT-ECM
900X900

DUCTABLE AIR
TREATMENT UNITS

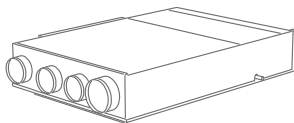


FRESH | FRESH-ECM

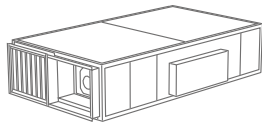


UTC/UTV | UTC/UTV-ECM

HEAT RECOVERY
UNITS

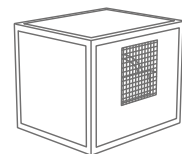


DOUBLE-ECM



EBF-SHE/HHE | EBF-SHE/HHE-ECM

EXTRACT
FAN BOX




CFT

CONTROL



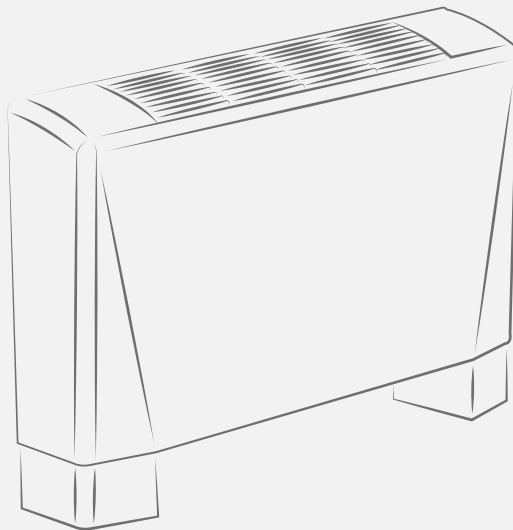
CONTROLLERS

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AIR AIR-ECM


Centrifugal fan coil unit



A GROUP S.p.A (Trademark VENTILCLIMA) participates in the ECP programme for FCU. Check ongoing validity of certificate: www.eurovent-certification.com

Design and performance, with maximum silence

 0.5 ÷ 9.0 kW
cooling

 0.5 ÷ 9.8 kW
heating

 50%
energy saving up to 50%

 61 - 1670 m³/h
air flow









Sophisticated design and maximum level of silence:

the series represents the perfect combination of innovation and design, where the technological choices adopted allow to achieved maximum comfort with maximum level of silence. Furthermore, the particular research on design guarantees refined and minimal forms, which ensure a discrete integration in any application context, be it modern or traditional.



Bearing structure:

structure in Z200 hot-dip galvanized steel sheet 0.8mm thick, insulated with 5mm-thick closed cell polyolefin-based insulation. Condensate drain basin in the shape of an "L" in Z140 hot galvanized sheet pre-painted 0.8 mm thick and insulated with 3mm-thick closed cell polyolefin-based insulation, complete with connection for condensate drain external Ø 20 mm.



Cover cabinet:

Cabinet in hot-dip galvanized steel sheet and pre-coated with a polyvinyl chloride film to guarantee high resistance to corrosion, pure white RAL 9016.

The sides, the air diffusion grilles and the flaps are instead made of injection-molded reinforced ABS and opaque white color.

Other colors and special finishes available on request.



Filter:

of standard supplied regenerable filter with galvanized steel frame and polypropylene filter fabric with efficiency class G1 * / EU1 **. Alternatively, a wide range of filters with greater efficiencies are available, including G2 * / EU2 ** and G3 * / EU3 ** or the innovative electronic filter that allows a complete purification of the air and at the same time ensures high efficiencies thanks to minimum load losses. (* according to EN779 / ** according to Eurovent)



Fan section:

consisting of double intake centrifugal fans, with impellers in aluminum, or ABS statically and dynamically balanced, directly fitted onto the motor shaft. Single-phase asynchronous electric motor with overload protection, 6 rotation speeds (3 of which are connected). The motor is directly coupled to the fans, and cushioned with elastic supports for the benefit of low noise. The ECM series is instead equipped with innovative Brushless ECM motors, high head motors or motors with fail contact.



Coils:

Copper tube coil with aluminum fins with continuous pack blocked on the tubes by mechanical expansion. Brass manifolds equipped with Ø 1/2 " ~ 3/4" female gas connections and easily accessible air vent valves. Hydraulic connections positioned on the left (front view) on request supplied on the right. The coils are reversible, so the connection side can also be reversed on site. The heat exchange coil is not suitable for use in corrosive atmospheres.



Cables LSZH Halogen Free (optional):

the series, on request and where possible, can also be supplied with halogen-free LSZH electric cables, therefore with low emission of fumes and toxic gases, for particular types of installation where it is necessary to guarantee maximum user safety.



Customization:

our engineering is able to satisfy any customization requirement, ranging from simple aesthetic finishes to the satisfaction of specific dimensional, performance or application constraints.

Details make the difference

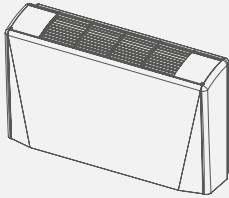
Compact fan coil with low thickness, which is characterized by the perfect combination of design, efficiency, performance and the lowest sound emissions of all time, which allow this series to be placed at the top of the range.

Available in 10 sizes and 4 versions (M/MF/I/IF) with 3 or 4 row heat exchange coils for 2-pipe systems, 1 or 2 rows for 4-pipe systems. The wide range of optional motors also makes it possible to reach ducted installations with load losses up to 60 Pa.

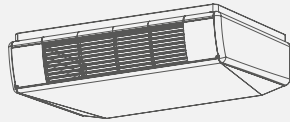
A wide range of controls and accessories allows us to provide solutions for any installation requirement.



M

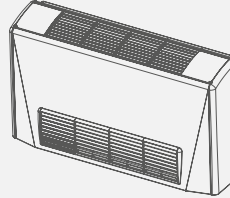


Frontal cabinet
Vertical installation
Bottom air intake

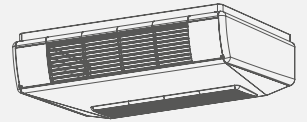


Frontal cabinet
Horizontal installation
Bottom air intake

MF

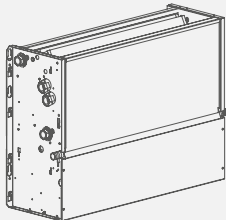


Frontal cabinet
Vertical installation
Frontal air intake

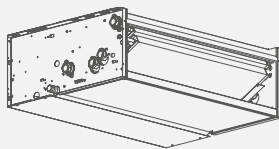


Frontal cabinet
Horizontal installation
Frontal air intake

I

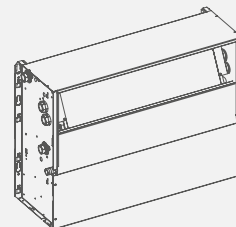


Concealed version
Vertical installation
Bottom air intake



Concealed version
Horizontal installation
Bottom air intake

IF



Concealed version
Vertical installation
Frontal air supply



2 tubi - pipes - tubes Leiter - tubos		3R scambiatore - coil - batterie Wärmetauscher - batería		10	20	30	40	50	60	70	80	90	100	
7/12°C 27°C d.b. 19°C w.b.	(E)	Potenza frigorifera totale	W	6	1185	1885	2672	3633	4599	4906	5556	5997	7479	8957
		Total cooling capacity	W	5	916	1685	2285	2801	3308	3950	4482	5264	6671	8535
		Puissance frigorifique totale	W	4	781	1298	1906	2322	2682	3139	3773	4150	5785	7739
		Kälteleistung gesamt	W	3	694	1142	1691	1930	2231	2620	3168	3379	4957	7159
		Potencia frigorífica total	W	2	618	967	1455	1615	1710	2089	2527	2744	4255	6413
			W	1	525	838	1042	1251	1367	1875	2272	2421	4107	6225
	(E)	Potenza frigorifera sensibile	W	6	925	1385	1972	2673	3569	3586	4086	4717	6279	7227
		Sensible cooling capacity	W	5	726	1235	1665	2021	2508	2840	3252	4104	5511	6885
		Puissance frigorifique sensible	W	4	631	928	1376	1662	2012	2229	2713	3122	4745	6479
		Sensible Kälteleistung	W	3	554	822	1221	1360	1641	1850	2264	2509	4037	5959
		Potencia frigorífica total sensible	W	2	478	694	1045	1140	1240	1469	1777	2014	3435	5293
			W	1	380	598	762	871	997	1315	1612	1771	3097	4905
Portata acqua Water flow Débit d'eau Wassermenge Flujo de agua		l/h	6	215	331	468	636	806	859	973	1056	1320	1576	
		l/h	5	172	295	400	489	579	691	785	927	1174	1501	
		l/h	4	137	227	334	405	469	549	659	729	1014	1361	
		l/h	3	122	200	295	336	390	458	553	595	868	1260	
		l/h	2	108	169	255	282	300	364	441	483	744	1129	
		l/h	1	100	146	183	218	238	328	397	426	718	1095	
(E)	Perdite di carico lato acqua	kPa	6	5,9	16,3	36,6	24,0	42,0	23,9	17,9	20,6	33,8	37,6	
	Water pressure drop	kPa	5	4,0	13,3	27,7	15,1	23,5	16,3	12,2	16,4	27,5	34,4	
	Pertes charge côté eau	kPa	4	3,1	8,4	20,2	10,8	17,9	10,8	9,0	11,5	26,1	28,8	
	Wassersseitiger Druckverlust	kPa	3	2,5	6,7	16,3	7,8	12,7	7,9	6,6	8,0	20,0	25,0	
	Caidas de presión lado agua	kPa	2	2,0	5,0	12,5	5,7	7,9	5,3	4,4	5,6	15,6	20,7	
		kPa	1	1,5	3,8	7,0	3,6	4,9	4,4	3,7	4,2	11,6	16,0	
(E)	Potenza termica	W	6	1520	2130	2950	4400	5135	5950	6170	7300	8070	9790	
	Heating capacity	W	5	1160	1860	2500	3340	3617	4710	4920	6360	7130	9290	
	Puissance thermique	W	4	950	1390	2060	2560	2910	3480	4080	4820	6250	8530	
	Heizleistung	W	3	790	1230	1810	2130	2440	2920	3450	3890	5440	7930	
	Energía térmica	W	2	620	970	1580	1820	1820	2400	2940	3280	4660	7060	
		W	1	470	860	1180	1480	1380	2320	2680	2890	4360	6680	
Portata acqua Water flow Débit d'eau Wassermenge Flujo de agua		l/h	6	264	372	513	767	892	1036	1075	1271	1407	1705	
		l/h	5	201	324	436	582	628	821	857	1107	1242	1619	
		l/h	4	167	243	359	446	506	607	711	840	1089	1495	
		l/h	3	126	214	315	370	424	508	601	677	948	1382	
		l/h	2	102	170	275	317	316	419	513	571	811	1229	
		l/h	1	82	150	206	257	240	403	467	504	759	1165	
(E)	Perdite di carico lato acqua	kPa	6	7,0	16,5	35,5	27,5	48,2	27,4	17,6	23,6	43,1	35,6	
	Water pressure drop	kPa	5	4,4	12,9	26,6	16,9	26,0	18,2	11,8	18,5	34,3	32,4	
	Pertes charge côté eau	kPa	4	3,5	7,8	18,9	10,6	17,7	10,7	8,5	11,4	19,9	22,9	
	Wassersseitiger Druckverlust	kPa	3	2,3	6,3	15,0	7,6	13,0	7,8	6,3	7,8	15,6	19,9	
	Caidas de presión lado agua	kPa	2	1,6	4,1	11,8	5,8	7,9	5,6	4,8	5,8	11,8	16,2	
		kPa	1	0,9	3,3	7,1	4,0	4,9	5,2	4,0	4,6	10,5	14,8	
(E)	Potenza termica	W	6	1770	2530	3500	5180	6570	7000	7340	8580	9630	11650	
	Heating capacity	W	5	1360	2210	2980	3940	4650	5560	5850	7480	8510	11070	
	Puissance thermique	W	4	1120	1660	2460	3050	3740	4150	4870	5710	7450	10200	
	Heizleistung	W	3	870	1470	2160	2530	3140	3470	4110	4610	6480	9430	
	Energía térmica	W	2	710	1170	1880	2160	2370	2850	3490	3880	5550	8400	
		W	1	580	1030	1410	1750	1820	2730	3170	3420	5210	7980	
Portata acqua Water flow Débit d'eau Wassermenge Flujo de agua		l/h	6	215	331	468	636	806	859	973	1056	1320	1576	
		l/h	5	172	295	400	489	579	691	785	927	1174	1501	
		l/h	4	137	227	334	405	469	549	659	729	1014	1361	
		l/h	3	122	200	295	336	390	458	553	595	868	1260	
		l/h	2	108	169	255	282	300	364	441	483	744	1129	
		l/h	1	100	146	183	218	238	328	397	426	718	1095	
(E)	Perdite di carico lato acqua	kPa	6	4,8	13,3	29,8	19,6	34,2	19,5	14,6	16,8	38,1	30,6	
	Water pressure drop	kPa	5	3,3	10,9	22,6	12,3	19,1	13,3	10,0	13,4	30,7	28,0	
	Pertes charge côté eau	kPa	4	2,5	6,9	16,4	8,8	14,6	8,8	7,3	9,3	21,3	23,5	
	Wassersseitiger Druckverlust	kPa	3	1,8	5,5	13,2	6,4	10,4	6,4	5,4	6,5	16,2	20,5	
	Caidas de presión lado agua	kPa	2	1,4	4,0	10,2	4,7	6,4	4,3	3,6	4,5	12,4	16,9	
		kPa	1	1,2	3,1	5,7	3,0	4,0	3,6	3,0	3,4	9,4	13,1	
Portata aria Air flow Débit d'air Luftstrom Flujo de aire		m³/h	6	205	342	427	603	771	835	968	1153	1376	1670	
		m³/h	5	150	295	364	439	510	650	753	1001	1198	1604	
		m³/h	4	120	211	292	359	398	503	619	728	1002	1511	
		m³/h	3	100	184	256	295	336	419	519	586	865	1395	
		m³/h	2	78	153	221	249	249	344	421	476	736	1224	
		m³/h	1	61	130	160	220	189	299	379	407	649	1112	
(E)	Livello di potenza sonora	dB(A)	6	48	51	51	53	54	54	57	62	62	65	
	Sound power level	dB(A)	5	41	47	47	45	46	49	52	59	59	64	
	Niveau de puissance sonore	dB(A)	4	38	40	43	40	40	43	49	54	55	62	
	Schall-Leistungspegel	dB(A)	3	35	36	39	35	36	38	45	48	51	60	
	Nivel de potencia acústica	dB(A)	2	29	33	36	31	30	33	37	40	47	57	
		dB(A)	1	24	28	29	25	25	30	34	38	43	55	
(E)	Livello di pressione sonora	dB(A)	6	39	42	42	44	45	45	48	53	53	56	
	Sound pressure level	dB(A)	5	32	38	38	36	37	40	43	50	50	55	
	Niveau de pression sonore	dB(A)	4	29	31	34	31	31	34	40	45	46	53	
	Schall-Druckpegel	dB(A)	3	26	27	30	26	27	29	36	39	42	51	
	Nivel de presión sonora	dB(A)	2	20	24	27	22	21	24	28	31	38	48	
		dB(A)	1	15	19	20	16	16	21	25	29	34	46	

- **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 than 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 Schalleistungspegels 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

4 tubi - pipes - tubes (3+1)R scambiatore - coil - batteria Leiter - tubos (3+1)R Wärmetauscher - batería			10	20	30	40	50	60	70	80	90	100
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) W 6	1195	1695	2612	3563	4579	4816	5206	6227	8319	8877
		W 5	956	1545	2245	2751	3348	3880	4332	5474	7361	8475
		W 4	830	1154	1876	2272	2687	3079	3223	4072	6395	7709
		W 3	734	1012	1651	1890	2226	2570	2708	3349	5490	7169
		W 2	658	864	1425	1585	1710	2049	2157	2744	4705	6408
		W 1	550	788	1022	1231	1417	1835	2062	2481	4277	6225
	Potenza frigorifera sensibile Sensible cooling capacity Puissance frigorifique sensible Sensible Kälteleistung Potencia frigorífica total sensible	(E) W 6	915	1245	1802	2623	3499	3776	4446	4617	6169	6627
		W 5	726	1135	1535	1981	2468	2790	3602	4024	5411	6315
		W 4	621	908	1356	1622	1982	2189	2658	3057	4655	5759
		W 3	534	797	1196	1334	1614	1820	2218	2469	3957	5319
		W 2	468	687	1030	1115	1220	1434	1747	1969	3375	4698
		W 1	380	558	692	871	967	1285	1672	1751	3037	4555
Portata acqua Water flow Débit d'eau Wassermenge Flujo de agua	(E) l/h 6	211	333	459	625	836	844	914	1094	1463	1577	
	l/h 5	169	289	393	480	602	679	758	962	1292	1501	
	l/h 4	147	195	327	397	464	539	564	711	1119	1362	
	l/h 3	130	174	289	329	401	451	473	606	958	1259	
	l/h 2	115	150	249	277	305	359	381	492	823	1130	
	l/h 1	96	144	178	214	245	322	360	435	746	1096	
Perdite di carico lato acqua Water pressure drop Pertes charge côté eau Wasserseitiger Druckverlust Caídas de presión lado agua	(E) kPa 6	3,5	15,8	30,4	23,2	38,8	23,2	16,0	22,0	40,6	30,5	
	kPa 5	2,4	12,8	24,0	14,6	25,1	15,8	11,5	17,5	32,6	28,0	
	kPa 4	1,8	7,6	18,7	10,1	17,0	10,0	8,4	11,0	25,0	24,0	
	kPa 3	1,5	6,0	15,1	7,2	11,9	7,3	6,2	7,7	18,9	20,0	
	kPa 2	1,1	4,5	11,6	5,3	7,4	4,9	4,1	5,5	14,4	17,0	
	kPa 1	0,7	3,7	8,9	3,5	5,2	4,2	3,1	4,3	12,4	16,1	
65/55 °C 20 °C	Potenza termica Heating capacity Puissance thermique Heizleistung Energía térmica	(E) W 6	1110	1800	2560	2860	4190	4370	4830	5290	7050	7520
		W 5	910	1610	2270	2320	3240	3620	4100	4840	6390	7120
		W 4	760	1160	1680	1980	2700	2990	3000	3880	5620	6710
		W 3	730	1090	1530	1710	2340	2600	2680	3450	5000	6250
		W 2	610	940	1380	1520	1870	2270	2390	3050	4420	5750
		W 1	520	650	1270	1230	1540	2070	2220	2750	4030	5430
	Portata acqua Water flow Débit d'eau Wassermenge Flujo de agua	(E) l/h 6	97	158	225	251	368	384	424	464	618	659
		l/h 5	80	141	199	204	285	318	359	424	560	624
		l/h 4	67	102	147	173	237	262	263	340	493	588
		l/h 3	64	96	134	150	205	228	235	302	439	549
		l/h 2	54	82	121	133	164	199	209	267	388	504
		l/h 1	45	57	112	108	135	181	195	241	353	476
Perdite di carico lato acqua Water pressure drop Pertes charge côté eau Wasserseitiger Druckverlust Caídas de presión lado agua	(E) kPa 6	1,9	5,8	13,4	19,2	35,5	12,5	30,6	21,8	32,4	27,3	
	kPa 5	1,3	4,8	10,8	13,3	21,5	9,0	22,3	18,5	27,2	24,8	
	kPa 4	1,0	3,2	8,3	10,1	15,0	6,3	12,3	13,0	21,8	22,0	
	kPa 3	0,9	2,8	7,1	7,8	11,3	5,0	10,0	10,6	17,7	20,0	
	kPa 2	0,7	2,2	5,9	6,3	7,3	3,9	8,2	8,5	14,3	17,0	
	kPa 1	0,5	1,0	3,9	4,4	5,0	3,2	7,1	6,5	12,1	15,4	
70/60 °C 20 °C	Potenza termica Heating capacity Puissance thermique Heizleistung Energía térmica	(E) W 6	1270	2050	2910	3230	4770	4970	5480	6000	7990	8510
		W 5	1040	1830	2504	2630	3690	4110	4640	5480	7240	8060
		W 4	870	1350	1901	2240	3070	3390	3400	4390	6370	7590
		W 3	840	1270	1736	1940	2660	2950	3030	3910	5660	7090
		W 2	710	1100	1553	1710	2120	2570	2700	3450	5010	6510
		W 1	600	740	1440	1390	1750	2340	2520	3120	4560	6140
	Portata acqua Water flow Débit d'eau Wassermenge Flujo de agua	(E) l/h 6	112	180	256	284	419	436	481	527	702	748
		l/h 5	92	161	220	231	324	361	408	482	636	708
		l/h 4	77	119	167	197	270	298	299	386	560	667
		l/h 3	74	112	153	170	233	259	266	343	498	623
		l/h 2	62	97	137	151	186	226	238	303	440	572
		l/h 1	52	65	127	122	154	206	221	274	401	540
Perdite di carico lato acqua Water pressure drop Pertes charge côté eau Wasserseitiger Druckverlust Caídas de presión lado agua	(E) kPa 6	2,4	7,2	16,4	23,5	45,6	9,4	38,8	27,4	39,8	33,4	
	kPa 5	1,7	5,9	13,3	16,3	27,6	6,8	28,2	23,2	33,3	30,4	
	kPa 4	1,2	3,5	10,2	12,3	17,7	4,8	15,6	15,3	26,6	27,3	
	kPa 3	1,2	3,1	8,7	9,5	13,9	3,8	12,7	12,2	21,6	24,2	
	kPa 2	0,9	2,4	7,3	7,7	9,4	3,0	10,3	9,9	17,4	20,8	
	kPa 1	0,6	1,2	4,8	5,3	6,4	2,5	9,0	8,2	14,8	18,8	
Portata aria Air flow Débit d'air Luftstrom Flujo de aire	(E) m³/h 6	200	328	424	604	753	829	960	1138	1352	1643	
	m³/h 5	147	282	354	427	505	635	751	1000	1180	1572	
	m³/h 4	117	197	291	349	401	496	603	733	990	1493	
	m³/h 3	98	169	248	284	329	407	508	581	851	1368	
	m³/h 2	77	142	214	241	245	335	411	469	725	1217	
	m³/h 1	60	132	155	212	184	288	370	403	635	1101	
Livello di potenza sonora Sound power level Niveau de puissance sonore Schall-Leistungspegel Nivel de potencia acústica	(E) dB(A) 6	48	51	52	53	54	55	57	62	62	65	
	dB(A) 5	41	47	48	45	46	49	52	59	59	64	
	dB(A) 4	38	40	43	40	42	43	49	53	57	62	
	dB(A) 3	35	36	39	35	39	38	43	48	53	60	
	dB(A) 2	29	30	36	32	34	33	37	43	50	57	
	dB(A) 1	20	28	29	25	27	30	34	38	43	55	
Livello di pressione sonora Sound pressure level Niveau de pression sonore Schall-Druckpegel Nivel de presión sonora	(E) dB(A) 6	39	42	43	44	45	46	48	53	53	56	
	dB(A) 5	32	38	39	36	37	40	43	50	50	55	
	dB(A) 4	29	31	34	31	33	34	40	44	48	53	
	dB(A) 3	26	27	30	26	27	29	34	39	44	51	
	dB(A) 2	20	21	27	23	25	24	28	34	41	48	
	dB(A) 1	11	19	20	16	18	21	25	29	34	46	

- **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 than 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 Schalleistungspegels 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

Motore asincrono - Asynchronous motor Moteur asynchrone - Asynchronmotor - Motor asincrono			10	20	30	40	50	60	70	80	90	100
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	(E)	W 6	35	45	58	77	91	104	114	153	211	223
		W 5	24	35	45	49	62	80	88	136	169	205
		W 4	19	22	34	38	48	61	67	98	125	191
		W 3	16	18	29	30	39	50	52	81	103	181
		W 2	12	13	25	25	30	41	43	66	85	167
		W 1	10	12	18	19	23	35	38	59	73	155
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 6	0,16	0,20	0,26	0,34	0,41	0,48	0,49	0,68	0,93	1,03
		A 5	0,11	0,15	0,20	0,22	0,28	0,36	0,38	0,60	0,71	0,93
		A 4	0,09	0,10	0,15	0,17	0,21	0,28	0,29	0,45	0,55	0,87
		A 3	0,07	0,08	0,13	0,13	0,17	0,22	0,24	0,37	0,45	0,82
		A 2	0,05	0,06	0,11	0,11	0,13	0,18	0,20	0,31	0,37	0,77
A 1	0,04	0,05	0,08	0,09	0,10	0,16	0,17	0,27	0,32	0,72		
Tensione di alimentazione Power supply Tension d'alimentation Stromversorgung Tensión de alimentación			~230V / 1ph / 50-60Hz									

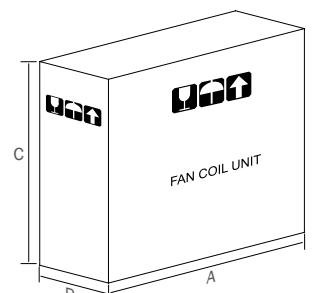
velocità cablate / wired speed / vitesse câblée / verkabelte Geschwindigkeitsstufe / velocidades cableadas (E) = Eurovent

Motore ECM - ECM motor Moteur ECM - ECM-Motor - Motor ECM			10	20	30	40	50	60	70	80	90	100
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	(E)	W 6	-	24	30	40	47	56	67	113	103	170
		W 5	-	19	20	19	19	30	34	76	72	147
		W 4	-	12	15	13	14	19	22	38	55	131
		W 3	-	10	11	10	10	13	17	24	40	102
		W 2	-	8	10	8	7	10	12	17	29	78
		W 1	-	8	7	7	6	9	10	11	20	63
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 6	-	0,19	0,24	0,29	0,35	0,49	0,50	0,88	0,83	1,34
		A 5	-	0,15	0,16	0,15	0,15	0,26	0,26	0,58	0,58	1,17
		A 4	-	0,10	0,13	0,11	0,12	0,17	0,16	0,26	0,38	1,04
		A 3	-	0,09	0,10	0,09	0,09	0,13	0,14	0,16	0,28	0,82
		A 2	-	0,08	0,09	0,08	0,07	0,10	0,11	0,13	0,21	0,66
A 1	-	0,07	0,07	0,07	0,07	0,09	0,10	0,11	0,18	0,54		
Tensione di controllo velocità (Vcc) Speed control voltage (Vdc) Tension de contrôle de vitesse (Vcc) Drehzahlregelspannung (Vcc) Voltaje de control de velocidad (Vcc)		Vdc 6	-	8,8	8,3	9,0	9,2	9,2	5,9	7,0	7,4	7,7
		Vdc 5	-	7,5	6,3	5,7	5,4	6,5	4,6	6,2	6,3	7,3
		Vdc 4	-	5,0	5,4	4,4	4,6	4,8	3,5	4,7	5,2	6,9
		Vdc 3	-	4,2	4,2	3,2	3,1	3,6	2,9	3,3	4,4	6,3
		Vdc 2	-	3,4	3,6	2,7	2,0	2,9	2,4	2,8	3,8	5,9
		Vdc 1	-	3,1	2,9	2,0	1,3	2,3	2,0	2,2	3,6	5,1
Tensione di alimentazione Power supply Tension d'alimentation Stromversorgung Tensión de alimentación			~230V / 1ph / 50-60Hz									

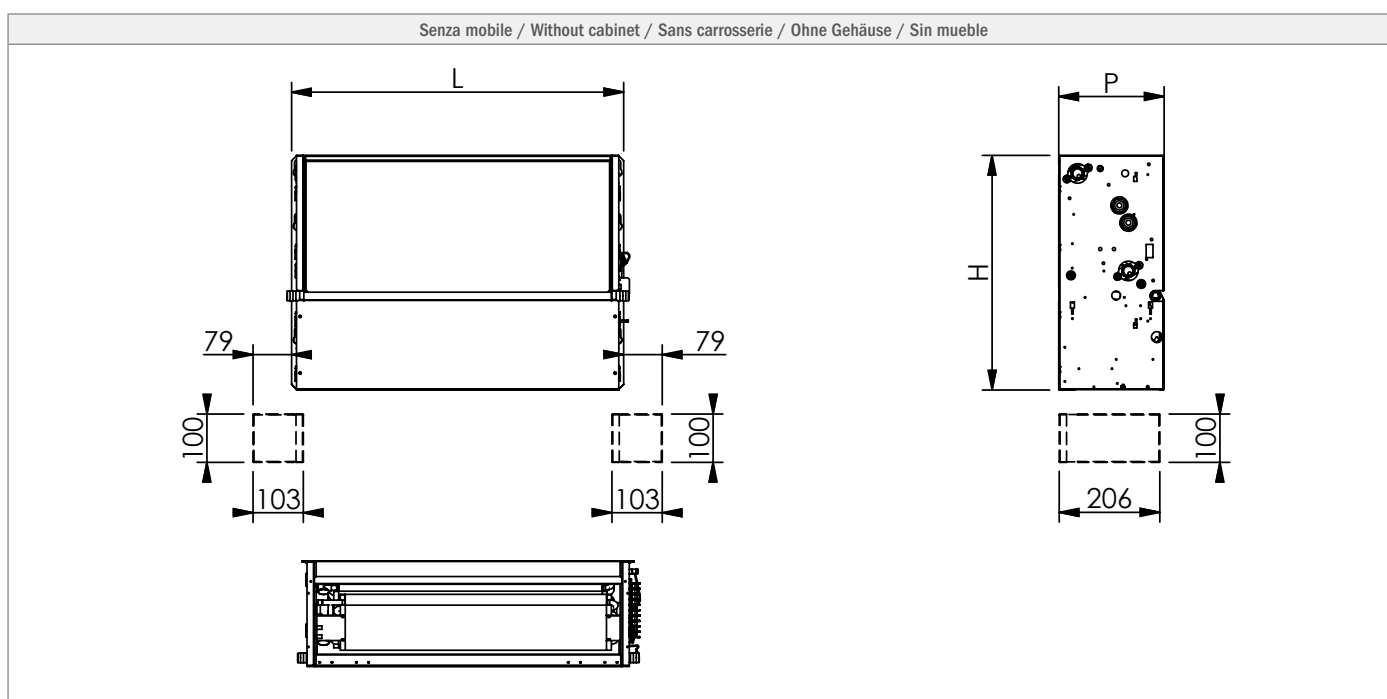
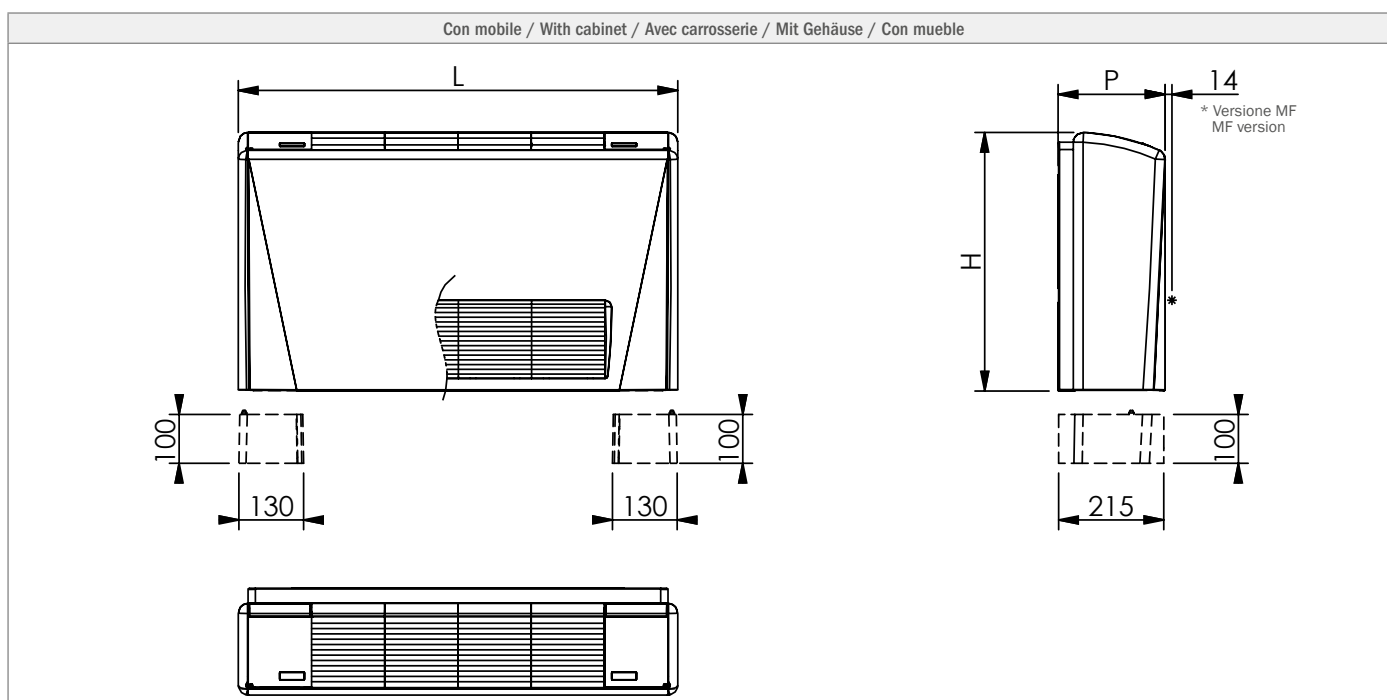
velocità cablate / wired speed / vitesse câblée / verkabelte Geschwindigkeitsstufe / velocidades cableadas (E) = Eurovent

Weights and packaging

	dimensioni	peso netto	peso lordo	bancale		
	dimension	net weight	gross weight	[mm] L x P	[n.] unità - units	[kg] tot.
	[mm] (AxBxC)	[kg]	[kg]			
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	1060 x 240 x 560	23	25	1200 x 1000	12	315
MOD. 50	1210 x 240 x 560	26	28	1200 x 1000	12	351
MOD. 60	1360 x 240 x 560	30	32	1500 x 1000	12	399
MOD. 70	1510 x 240 x 560	36	39	1500 x 1000	12	483
MOD. 80	1510 x 240 x 560	36	39	1500 x 1000	12	483
MOD. 90	1660 x 240 x 560	41	44	1800 x 900	8	369
MOD. 100	1810 x 240 x 560	47	50	1800 x 900	8	417

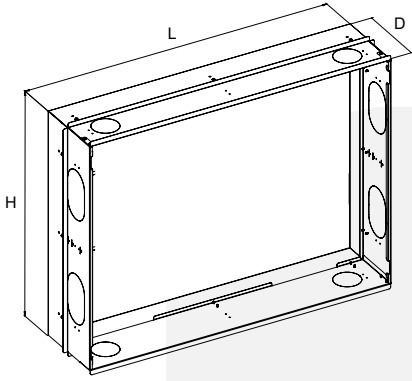


Con mobile / With cabinet Avec carrosserie / Mit Gehäuse / Con mueble			10	20	30	40	50	60	70	80	90	100
Lunghezza / Length / Longueur / Länge / Longitud	L	mm	600	750	900	1050	1200	1350	1500	1500	1650	1800
Altezza / Height / Hauteur / Höhe / Altura	H	mm	530	530	530	530	530	530	530	530	530	530
Profondità / Depth / Profondeur / Tiefe / Profundidad	P	mm	218	218	218	218	218	218	218	218	218	218
Senza mobile / Without cabinet Sans carrosserie / Ohne Gehäuse / Sin mueble			10	20	30	40	50	60	70	80	90	100
Lunghezza / Length / Longueur / Länge / Longitud	L	mm	380	530	680	830	980	1130	1280	1280	1430	1580
Altezza / Height / Hauteur / Höhe / Altura	H	mm	480	480	480	480	480	480	480	480	480	480
Profondità / Depth / Profondeur / Tiefe / Profundidad	P	mm	215	215	215	215	215	215	215	215	215	215

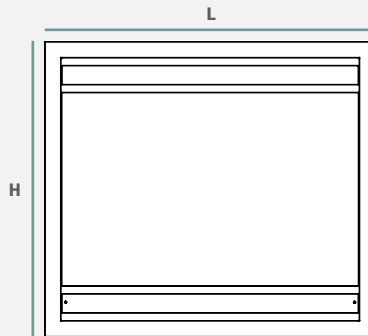


□ Concealed panel

AIR | AIR-ECM



MNFP-A



AIR-I

	technical spaces size	front panel size
MOD. 20	780 x 220 x (H)690	840 x 7 x (H)750
MOD. 30	930 x 220 x (H)690	990 x 7 x (H)750
MOD. 40	1080 x 220 x (H)690	1140 x 7 x (H)750
MOD. 50	1230 x 220 x (H)690	1290 x 7 x (H)750
MOD. 60	1380 x 220 x (H)690	1440 x 7 x (H)750
MOD. 70	1530 x 220 x (H)690	1590 x 7 x (H)750
MOD. 80	1530 x 220 x (H)690	1590 x 7 x (H)750

L x D x H (mm)



The series lends itself to be easily installed also in the built-in version through the special niche and its front panel specially designed and developed in multiple configurations and variants in order to satisfy any application need.

This installation method, in addition to ensuring perfect integration of the unit within the environment, allows at the same time to recover more living space, offering the possibility of confining the unit and any accessories supplied inside the niche, specially sized to ensure total accessibility during the installation and maintenance phases.

Concealed panel versions

MNFP-A

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.

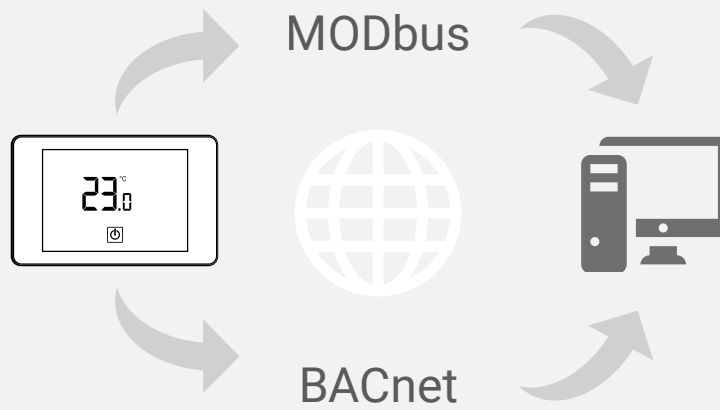




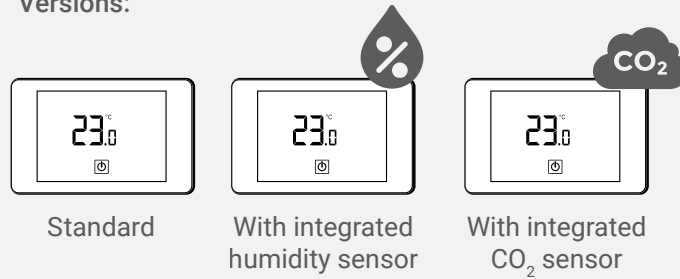
I-70 TOUCH SCREEN THERMOSTAT

Touch screen wall thermostat, programmable and with MODbus and BACnet supervision, also available with air quality sensor or relative humidity sensor directly integrated within the control.

Integrated connection:



Versions:





I-COM

Easy and versatile, I-Com is the base version of new control panel, without temperature control.



I-BASIC 1

It allows also the precise room temperature control thanks to analogic electronic thermostat integrated in the control panel.



I-BASIC 2

It allows also the precise room temperature control thanks to microprocessor electronic thermostat integrated in the control panel and allows to manage an electric heater.



I-BASIC 3

it has a range of programmable functions and allows to manage manually or automatically the operation speed.



I-DIGIT

Fully digital control panel that integrates a large and comfortable display, perfect for all the installations that require high automation of functions and an high level of comfort like hotel, offices and public places.



Compatibility of controls

For the complete specifications of the controls, please refer to the part relating to the controls, available from page 164.

503FA	<ul style="list-style-type: none"> - Termostato elettronico con display LCD - Electronic thermostat with LCD display - Thermostat électronique avec écran LCD - Elektronisches Thermostat mit LCD-Display - Termostato electrónico con pantalla LCD
AGKNFC101 (KNX)	<ul style="list-style-type: none"> - Regolatore per fan coil con protocollo KNX - KNX fan coil controller
CD11	<ul style="list-style-type: none"> - Comando senza regolazione di temperatura - Control without temperature control - Commande sans réglage de température - Steuerung ohne Temperaturregelung - Control sin regulación de temperatura
COM-B	<ul style="list-style-type: none"> - Commutatore 3 velocità con selettore rotativo BTicino - BTicino rotary selector switch - Commutateur 3 vitesses avec sélecteur rotatif BTicino - Umschalter der 3 Geschwindigkeitsstufen mittels Wahlschalter BTicino - Conmutador de 3 velocidades con selector giratorio b-Ticino
COM-V	<ul style="list-style-type: none"> - Commutatore 3 velocità con selettore a slitta Vimar - Vimar 3-speed slide selector - Commutateur 3 vitesses avec sélecteur à glissière Vimar - Umschalter der 3 Geschwindigkeitsstufen mittels Schiebeschalter Vimar - Conmutador de 3 velocidades con selector deslizante Vimar
FAN01	<ul style="list-style-type: none"> - Regolatore per fan coil configurabile con protocollo di comunicazione BACnet - Configurable fan coil controller with BACnet communication protocol - Régulateur pour ventilconvecteur configurable avec protocole de communication BACnet - Regler für Gebläsekonvektor konfigurierbar über Kommunikationsprotokoll BACnet - Controlador fancoil configurable con protocolo de comunicación BACnet
i-10	<ul style="list-style-type: none"> - Termostato elettronico analogico base (unità a 2 e 4 tubi) - Analog electronic thermostat (2 and 4 pipe units) - Thermostat électronique analogique base (unité à 2 et 4 tubes) - Analoger elektronischer Basisthermostat für Geräte mit 2-Leiter- oder 4-Leiter-System - Termostato electrónico analógico base (unidades de 2 y 4 tubos)
i-20	<ul style="list-style-type: none"> - Termostato elettronico analogico (unità a 2 tubi) - Analog electronic thermostat (2 pipe units) - Thermostat électronique analogique (unité à 2 tubes) - Analoger elektronischer Thermostat für Geräte mit 2-Leiter-System - Termostato electrónico analógico (unidad de 2 tubos)
i-25	<ul style="list-style-type: none"> - Termostato elettronico analogico (unità a 4 tubi) - Analog electronic thermostat (4 pipe units) - Thermostat électronique analogique (unité à 4 tubes) - Analoger elektronischer Thermostat für Geräte mit 4-Leiter-System - Termostato electrónico analógico (unidad de 4 tubos)
i-30	<ul style="list-style-type: none"> - Termostato elettronico programmabile con display LCD - Programmable electronic thermostat with LCD display - Thermostat électronique programmable avec écran LCD - Programmierbarer elektronischer Thermostat für Gebläsekonvektoren mit 2/4-Leiter-System, mit LCD-Display - Termostato electrónico programable con pantalla LCD
i-50	<ul style="list-style-type: none"> - Termostato elettronico programmabile con display LCD - Programmable electronic thermostat with LCD display - Thermostat électronique programmable avec écran LCD - Programmierbarer elektronischer Thermostat für Gebläsekonvektoren mit 2/4-Leiter-System, mit LCD-Display - Termostato electrónico programable con pantalla LCD
i-60	<ul style="list-style-type: none"> - Termostato elettronico touch con connessione WiFi per gestione remota - Touch fan coil thermostat with WiFi connection - Thermostat électronique tactile avec connexion WiFi pour gestion à distance - Elektronischer Touch-Thermostat mit WiFi-Anbindung für Fernüberwachung - Termostato electrónico Touch con conexión WiFi para gestión remota
i-70	<ul style="list-style-type: none"> - Termostato elettronico touch configurabile, con protocollo di comunicazione Modbus/BACnet (unità a 2 e 4 tubi) - Touch programmable electronic thermostat with Modbus/BACnet protocol communication (unit 2 and 4 pipe system) - Thermostat électronique tactile configurable, avec protocole de communication Modbus/BACnet (unité à 2 et 4 tubes) - Konfigurierbarer elektronischer Touch-Thermostat, mit Modbus/BACnet-Kommunikation mit 2/4-Leiter-System - Termostato electrónico Touch configurable, con protocolo de comunicación Modbus / Bacnet (unidades de 2 y 4 tubos)
i-Basic 1	<ul style="list-style-type: none"> - Termostato elettronico analogico base - Analog base electronic thermostat - Thermostat électronique analogique base - Analoger elektronischer Basisthermostat für Geräte mit 2-Leiter oder 4-Leiter-System - Termostato electrónico analógico base
i-Basic 2	<ul style="list-style-type: none"> - Termostato elettronico analogico - Analog electronic thermostat - Thermostat électronique analogique - Analoger elektronischer Thermostat für Geräte mit 2-Leiter oder 4-Leiter-System - Termostato electrónico analógico

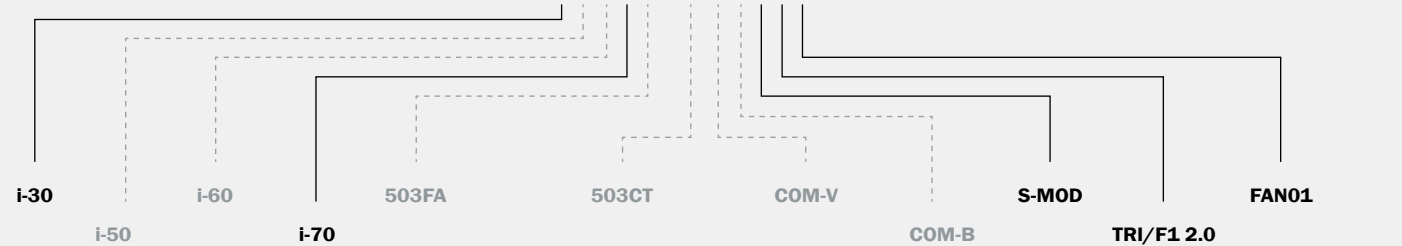
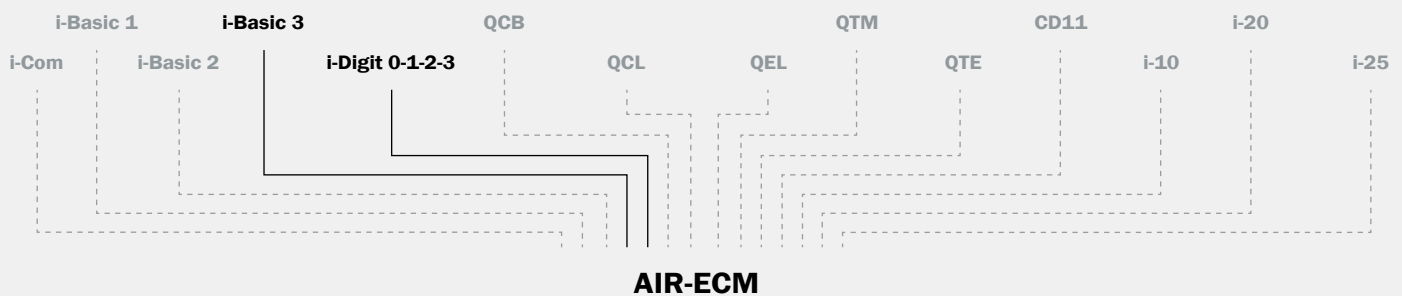
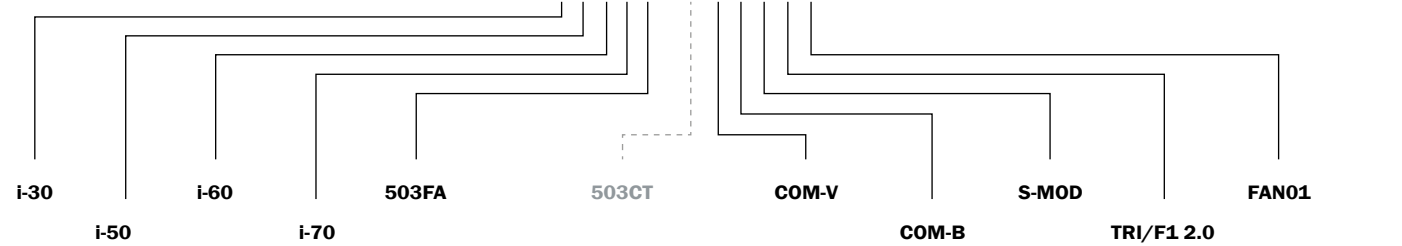
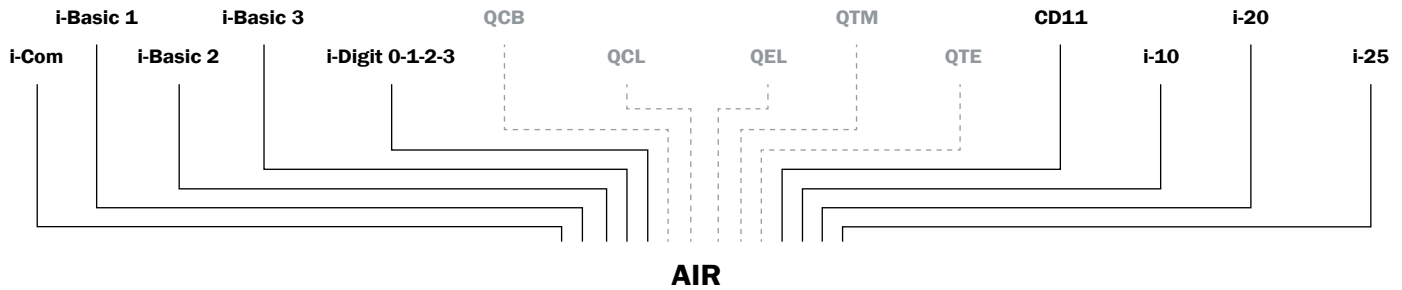
i-Basic 3	<ul style="list-style-type: none"> - Termostato elettronico analogico con programmazione semplificata a DIP-SWITCH - Analog electronic thermostat with simplified DIP-SWITCH programming - Thermostat électronique analogique avec programmation simplifiée à DIP-SWITCH - Analoger elektronischer Thermostat mit vereinfachter DIP-Schalter Programmierung - Termostato electrónico analógico con programación simplificada DIP-SWITCH
i-Com	<ul style="list-style-type: none"> - Comando senza regolazione di temperatura - Base switch without temperature control - Commande sans réglage de température - Regler für Geräte für 2-Leiter oder 4-Leiter-System ohne Temperaturregelung - Control sin regulación de temperatura
i-Digit 0-1-2-3	<ul style="list-style-type: none"> - Termostato elettronico programmabile con display LCD - Programmable electronic thermostat with LCD display - Thermostat électronique programmable avec écran LCD - Elektronischer Thermostat für Gebläsekonvektoren mit 2-Leiter oder 4-Leiter-System, mit LCD-Display - Termostato electrónico programable con pantalla LCD
IR-C	<ul style="list-style-type: none"> - Telecomando a raggi infrarossi (per cassette e sistemi TRI/F1 2.0 + S-MOD) - Infrared remote control (for cassette and TRI/F1 2.0 + S-MOD systems) - Télécommande à infrarouges (pour cassette et TRI/F1 2.0 + S-MOD systèmes) - Infrarot-Fernbedienung (für Kassettengeräte und TRI/F1 2.0 + S-MOD Systeme) - Control remoto IR (para fancoil de tipo cassette e sistemas TRI/F1 2.0 + S-MOD)
IR-T	<ul style="list-style-type: none"> - Telecomando a raggi infrarossi (per unità a parete) - Infrared remote control (for wall unit) - Télécommande à infrarouges (pour unité murale) - Infrarot-Fernbedienung für wandmontierte Geräte - Control remoto IR (para unidad de pared)
QCB	<ul style="list-style-type: none"> - Quadro comando base - Base control panel - Panneau de contrôle base - Basisbediengerät - Panel de control base
QCL	<ul style="list-style-type: none"> - Quadro comando base in lamiera - Sheet base control panel - Panneau de contrôle base en tôle - Basisbediengerät aus Metall - Panel de control base en chapa
QEL	<ul style="list-style-type: none"> - Quadro comando base in lamiera - Sheet base control panel - Panneau de contrôle base en tôle - Basisbediengerät aus Metall - Panel de control base en chapa
QTE	<ul style="list-style-type: none"> - Quadro comando base con termostato ambiente elettronico - Base control panel with electronic room thermostat - Panneau de contrôle base avec thermostat ambient électronique - Basisbediengerät mit elektronischem Raumthermostat - Panel de control base con termostato ambiente electrónico
QTM	<ul style="list-style-type: none"> - Quadro comando base con termostato ambiente elettromeccanico (a bulbo) - Base control panel with room electromechanical temperature bulb thermostat - Panneau de contrôle base avec thermostat ambient électromécanique (à bulbe) - Basischalttafel mit elektromechanischem Raumtempertur-Thermostat (mit Stabfühler) - Panel de control base con termostato ambiente electromecánico (a bulbo)
RWIECM 1-2	<ul style="list-style-type: none"> - Interfaccia utente a parete - Wall user interface - Interface utilisateur mural - Wandmontiertes Bediengerät - Interfaz de usuario de pared
S-MOD	<ul style="list-style-type: none"> - Sistema di supervisione - Supervision system - Système de supervision - Überwachungssystem - Sistema de supervisión
TRI/F1 2.0	<ul style="list-style-type: none"> - Controllo con telecomando IR o interfaccia a muro con protocollo di comunicazione Modbus - Infrared remote controller or wall controller with Modbus communication protocol - Contrôle avec télécommande IR ou interface mural avec protocole de communication Modbus - Steuerung mittels Infrarot-Fernbedienung oder wandmontiertes Bedienfeld mit Modbus-Kommunikationsprotokoll - Control con mando IR o interfaz de pared con protocolo de comunicación Modbus

Compatibility of controls

Scheda di potenza per controllo a 3 velocità
 Power chart for 3-speed control
 Fiche de puissance pour contrôle à 3 vitesses
 Leistungsplatine zur Steuerung mit 3 Geschwindigkeiten
 Tarjeta de alimentación para el control de 3 velocidades

	i-Com	i-Basic 1	i-Basic 2	i-Basic 3	i-Digit 0-1-2-3	TRI/F1 2.0	CD11	i-10	i-20	i-25	i-30	i-50	i-60	i-70	503FA	S-MOD	FAN01
Mod. 10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mod. 20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mod. 30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mod. 40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mod. 50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mod. 60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mod. 70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mod. 80	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mod. 90	-	-	○	○	○	-	-	-	-	-	-	○	○	○	-	-	-
Mod. 100	-	-	○	○	○	-	-	-	-	-	-	○	○	○	-	-	-

AIR | AIR-ECM

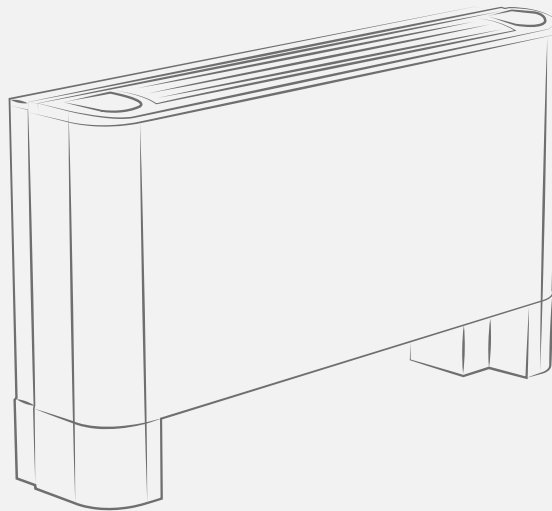


- Compatible
Compatible
Compatible
Kompatibel
Compatible
- - - - - Non compatibile
Not compatible
Non compatible
Nicht kompatibel
NO compatible
- Non necessaria
Not necessary
Non nécessaire
Nicht erforderlich
No Requerido
- Necessaria (inclusa di serie)
Necessary (included as standard)
Nécessaire (comprise de série)
Erforderlich (serienmäßig inbegriffen)
Requerido (incluido de serie)
- Necessaria (non inclusa)
Necessary (not included)
Nécessaire (non comprise)
Erforderlich (nicht inbegriffen)
Requerido (no incluido)

VCE

VCE-ECM


Centrifugal fan coil unit




A GROUP S.p.A (Trademark VENTILCLIMA) participates in the ECP programme for FCU. Check ongoing validity of certificate: www.eurovent-certification.com

Uncompromising style and performance

 **0.6 ÷ 11.6** kW
cooling

 **0.7 ÷ 12.9** kW
heating

 **50%**
energy saving up to 50%

 **123 - 2449** m³/h
air flow







Construction features



Structure:

in Z200 hot-dip galvanized steel sheet with a thickness of 0.8 mm and 1 mm (sizes 100 ÷ 120) insulated with closed cell polyolefin-based insulation. Condensate drain pan in hot-dip galvanized Z140 pre-painted 0.8 mm thick with closed cell polyolefin-based insulation 3 mm thick complete with connection for condensate drain external Ø 20 mm



Decorative cabinet:

in hot-dip galvanized steel sheet and pre-coated with a polyvinyl chloride film to guarantee high resistance to corrosion, pure white RAL 9016. The grilles for air diffusion and the flaps are instead made of injection-molded ABS, pure white RAL 9010 color. Other colors or special finishes available on request.



Filter:

of standard supplied regenerable filter with galvanized steel frame and polypropylene filter fabric with efficiency class G1 * / EU1 **.

Alternatively, a wide range of filters with greater efficiencies are available, including G2 * / EU2 ** and G3 * / EU3 **. (* according to EN779 / ** according to Eurovent)



Fan section:

consisting of double intake centrifugal fans, with impellers in aluminum, or ABS statically and dynamically balanced, directly fitted onto the motor shaft. Single-phase asynchronous electric motor with overload protection, 6 rotation speeds (3 of which are connected).

The motor is directly coupled to the fans, and cushioned with elastic supports for the benefit of low noise. The series can also be equipped with innovative Brushless ECM motors, high head motors or motors with fail contact.



Coils:

in copper tube with aluminum fins with continuous pack blocked on the tubes by mechanical expansion. Brass manifolds equipped with Ø 1/2 "and 3/4" female gas connections and easily accessible air vent valves. Hydraulic connections positioned on the left (front view), on request supplied on the right. The coils are reversible, so the connection side can also be reversed on site. The heat exchange coil is not suitable for use in corrosive atmospheres.



Customization:

our engineering is able to satisfy any customization requirement, ranging from simple aesthetic finishes to the satisfaction of specific dimensional, performance or application constraints.

Uncompromising style and performance

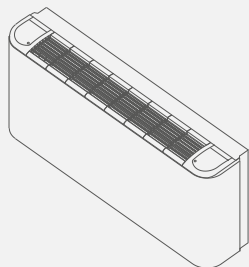
Centrifugal fan coil characterized by its linear, clean design, which integrates without being distinctive in any environment. In addition to the functional reliability found over the years, it stands out for its high construction robustness which, combined with the wide performance range, places it among the most versatile units on the market.

Made in 12 sizes and 9 different versions with increasing thicknesses and heights as the power developed increases, it allows you to reach the highest levels of power required currently on the market.

A wide range of controls and accessories allows us to provide solutions for any installation need.

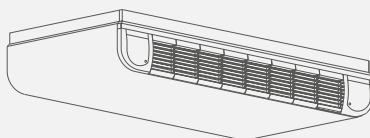


X0



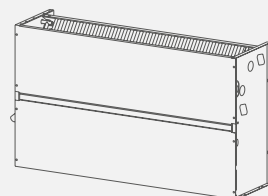
Frontal cabinet version
Vertical installation
Bottom air intake

X9



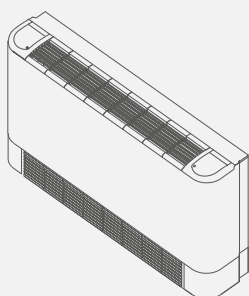
Frontal cabinet version
Horizontal installation
Rear air intake

X2



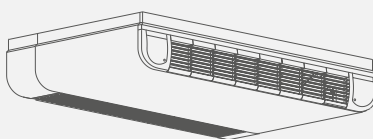
Concealed version
Vertical installation
Vertical air supply

X8



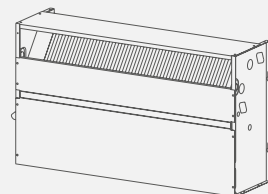
Frontal cabinet version
Vertical installation
Frontal air intake with socle

X1



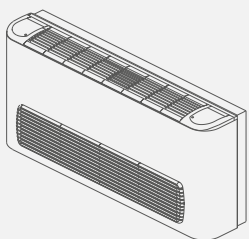
Frontal cabinet version
Horizontal installation
Frontal air intake with socle

X7



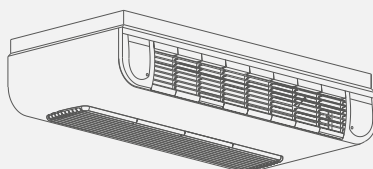
Concealed version
Vertical installation
Frontal air supply

X5



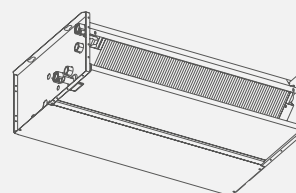
Frontal cabinet version
Vertical installation
Frontal air intake

X4



Frontal cabinet version
Horizontal installation
Frontal air intake

X3



Concealed version
Horizontal installation
Horizontal air supply



2 tubi - pipes - tubes Leiter - tubos		3R scambiatore - coil - batterie Wärmetauscher - batería		10	20	30	40	50	60	70	80	90	100	110	120			
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)	W 6	893	1685	2599	2769	3826	4236	4912	6034	6114	8312	-	-	-	-	
			W 5	830	1358	2340	2340	3418	3450	4024	5685	5905	7892	10999	11649	-	-	
			W 4	767	1248	2127	2127	3051	3071	3451	5466	5706	7633	9690	9690	10150	-	-
			W 3	713	1143	1864	1895	2742	3022	3030	4949	5269	7014	8694	9558	-	-	
			W 2	654	1058	1424	1424	2433	2460	2810	4117	4407	6383	7070	7570	-	-	
			W 1	617	992	1282	1292	2167	2397	2427	3019	3214	5832	6374	7154	-	-	
	Potenza frigorifera sensibile Sensible cooling capacity Puissance frigorifique sensible Sensible Kälteleistung Potencia frigorífica total sensible	(E)	W 6	813	1335	2129	2389	2726	3416	3592	4304	4224	6362	-	-	-	-	
			W 5	710	1128	1890	1890	2408	2740	3074	4005	4054	5975	8509	8839	-	-	
			W 4	627	988	1617	1697	2121	2391	2611	3866	3926	5713	7390	7590	-	-	
			W 3	563	873	1444	1505	1882	2272	2250	3449	3569	5224	6735	7215	-	-	
			W 2	494	788	1104	1144	1683	1900	1950	2827	2987	4713	5390	5615	-	-	
			W 1	467	722	1032	1122	1467	1857	2059	2139	4302	4804	5314	-	-		
20 °C	Portata acqua Water flow Débit d'eau Wassermenge Flujo de agua	(E)	l/h 6	159	299	457	487	673	743	860	1065	1087	1454	-	-	-	-	
			l/h 5	148	240	411	410	600	606	703	1002	1040	1380	1931	2041	-	-	
			l/h 4	135	219	363	372	534	538	602	963	1004	1333	1702	1781	-	-	
			l/h 3	125	202	326	332	479	527	531	871	925	1226	1529	1676	-	-	
			l/h 2	115	186	249	249	425	429	489	727	776	1117	1244	1330	-	-	
			l/h 1	109	173	223	224	377	417	423	534	569	1019	1119	1252	-	-	
	Perdite di carico lato acqua Water pressure drop Pertes charge côté eau Wasserseitiger Druckverlust Caídas de presión lado agua	(E)	kPa 6	1,0	3,9	10,5	11,7	25,2	30,0	58,8	34,0	16,4	27,7	-	-	-	-	
			kPa 5	0,9	2,3	7,5	8,8	19,8	25,9	37,6	30,3	15,0	27,0	26,5	33,0	-	-	
			kPa 4	0,8	2,0	6,3	7,3	16,1	17,0	27,7	28,1	13,1	23,8	21,2	25,7	-	-	
			kPa 3	0,7	1,7	5,0	5,6	13,0	16,3	21,2	23,0	12,0	22,0	17,5	23,0	-	-	
			kPa 2	0,6	1,4	2,7	3,2	10,8	12,9	18,4	16,5	9,0	19,0	12,1	15,0	-	-	
			kPa 1	0,5	1,4	2,6	3,0	8,1	10,8	16,9	8,9	5,0	14,8	10,0	13,6	-	-	
45/40 °C 20 °C	Potenza termica Heating capacity Puissance thermique Heizleistung Energía térmica	(E)	W 6	1290	2160	2700	3120	3950	4290	5040	6270	6230	9100	-	-	-	-	
			W 5	1090	1910	2430	2770	3500	3760	4300	5900	5880	8360	12280	12910	-	-	
			W 4	950	1610	2150	2510	3050	3310	3640	5660	5750	8290	10690	11100	-	-	
			W 3	850	1410	1940	2185	2720	2970	3170	5040	5210	7510	9510	9750	-	-	
			W 2	720	1250	1580	1800	2440	2610	2680	4180	4390	6810	7585	7700	-	-	
			W 1	680	1150	1410	1570	2130	2330	2310	3080	3180	6310	7070	6990	-	-	
	Portata acqua Water flow Débit d'eau Wassermenge Flujo de agua	(E)	l/h 6	225	377	470	544	689	747	878	1093	1085	1585	-	-	-	-	
			l/h 5	191	333	423	483	609	655	749	1027	1024	1456	2139	2249	-	-	
			l/h 4	166	280	374	437	531	576	635	987	1002	1443	1863	1935	-	-	
			l/h 3	148	246	339	383	474	517	552	887	908	1308	1657	1697	-	-	
			l/h 2	125	218	276	314	426	455	466	728	765	1187	1373	1342	-	-	
			l/h 1	119	201	245	274	371	405	402	536	555	1099	1231	1216	-	-	
Perdite di carico lato acqua Water pressure drop Pertes charge côté eau Wasserseitiger Druckverlust Caídas de presión lado agua	(E)	kPa 6	1,4	4,9	9,1	11,8	21,6	32,4	50,2	30,4	16,2	30,6	-	-	-	-		
		kPa 5	1,1	2,8	7,6	9,2	17,4	21,9	38,0	27,1	14,5	26,0	26,6	33,5	-	-		
		kPa 4	0,8	2,4	6,1	8,0	13,7	15,8	28,4	25,1	14,0	24,0	20,8	25,5	-	-		
		kPa 3	0,7	1,7	4,2	6,1	11,2	13,1	21,0	20,0	11,0	22,0	16,9	20,0	-	-		
		kPa 2	0,5	1,4	3,0	4,3	9,3	11,4	15,6	14,0	8,1	18,0	12,0	13,0	-	-		
		kPa 1	0,5	1,2	2,9	3,5	7,3	8,5	12,7	7,7	4,0	13,9	10,0	11,0	-	-		
50 °C 20 °C	Potenza termica Heating capacity Puissance thermique Heizleistung Energía térmica	(E)	W 6	1440	2510	3230	3700	4740	5150	6040	7510	7480	10820	-	-	-	-	
			W 5	1250	2190	2910	3270	4190	4480	5130	7060	7070	9980	14570	15330	-	-	
			W 4	1100	1870	2570	2950	3660	3940	4360	6780	6900	9870	12710	13220	-	-	
			W 3	990	1650	2330	2600	3270	3570	3800	6030	6270	8960	11320	11690	-	-	
			W 2	850	1470	1880	2110	2930	3120	3220	5020	5280	8130	9370	9240	-	-	
			W 1	810	1360	1670	1850	2560	2800	2780	3690	3830	7520	8400	8680	-	-	
	Portata aria Air flow Débit d'air Luftstrom Flujo de aire	(E)	m³/h 6	159	299	457	487	673	743	860	1065	1087	1454	-	-	-	-	
			m³/h 5	148	240	411	410	600	606	703	1002	1040	1380	1931	2041	-	-	
			m³/h 4	135	219	363	372	534	538	602	963	1004	1333	1702	1781	-	-	
			m³/h 3	125	202	326	332	479	527	531	871	925	1226	1529	1676	-	-	
			m³/h 2	115	186	249	249	425	429	489	727	776	1117	1244	1330	-	-	
			m³/h 1	109	173	223	224	377	417	423	534	569	1019	1119	1252	-	-	
Livello di potenza sonora Sound power level Niveau de puissance sonore Schall-Leistungspegel Nivel de potencia acústica	(E)	dB(A) 6	51	53	51	51	56	57	57	68	68	61	-	-	-	-		
		dB(A) 5	46	49	47	47	51	52	52	68	68	59	69	69	-	-		
		dB(A) 4	43	45	44	44	47	47	46	66	66	58	66	66	-	-		
		dB(A) 3	37	41	41	40	43	42	42	64	64	56	63	63	-	-		
		dB(A) 2	35	39	34	33	39	38	38	59	59	54	58	58	-	-		
		dB(A) 1	32	32	30	30	37	34	35	52	52	52	55	55	-	-		
	Livello di pressione sonora Sound pressure level Niveau de pression sonore Schall-Druckpegel Nivel de presión sonora	(E)	dB(A) 6	42	44	42	42	47	48	48	59	59	52	-	-	-	-	
			dB(A) 5	37	40	38	38	42	43	43	59	59	50	60	60	-	-	
			dB(A) 4	32	36	35	35	38	38	37	57	57	49	57	57	-	-	
			dB(A) 3	28	32	32	31	34	33	33	55	55	47	54	54	-	-	
			dB(A) 2	24	30	25	24	30	29	29	50	50	45	49	49	-	-	
			dB(A) 1	23	23	21	21	28	25	26	43	43	43	46	46	-	-	

- **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 than 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 Schalleistungspegels 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

4 tubi - pipes - tubes (3+1)R scambiatore - coil - batterie Leiter - tubos Wärmetauscher - batería		10	20	30	40	50	60	70	80	90	100	110	120		
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 6	873	1565	2499	2619	3646	3653	4723	5654	5724	8002	-	-	
		W 5	810	1308	2250	2330	3258	3260	4070	5365	5545	7552	10019	11150	
		W 4	747	1198	2037	2107	2691	2890	3500	5176	5366	7303	8830	9760	
		W 3	693	1103	1810	1865	2432	2602	3060	4709	4969	6744	8475	9348	
		W 2	634	1018	1354	1414	2353	2320	2662	3947	4187	6180	6910	7620	
		W 1	607	952	1242	1232	1927	2056	2279	2879	3069	5642	6174	6954	
	Potenza frigorifera sensibile Sensible cooling capacity Puissance frigorifique sensible Sensible Kälteleistung Potencia frigorífica total sensible	W 6	763	1445	2019	2109	3136	3216	3792	4284	4434	6032	-	-	
		W 5	680	1238	1820	1880	2768	2830	3255	4085	4345	5732	7749	8399	
		W 4	607	1088	1557	1677	2155	2481	2765	3906	4156	5463	6730	7280	
		W 3	533	963	1394	1485	1912	2232	2390	3960	3849	5054	6565	7028	
		W 2	475	868	1060	1130	1913	1960	2070	2917	3177	4575	5270	5620	
		W 1	447	792	1012	1002	1497	1717	1767	2109	2309	4162	4654	5084	
	Portata acqua Water flow Débit d'eau Wassermenge Flujo de agua	l/h 6	156	277	440	460	642	642	826	998	1020	1401	-	-	
		l/h 5	145	232	395	407	572	573	715	948	975	1327	1762	1950	
		l/h 4	133	211	357	368	473	505	609	913	945	1277	1554	1715	
		l/h 3	122	194	316	326	425	454	533	831	875	1180	1492	1641	
		l/h 2	111	179	239	248	411	404	464	696	737	1083	1217	1334	
		l/h 1	106	166	217	215	336	358	397	510	542	988	1085	1219	
Perdite di carico lato acqua Water pressure drop Pertes charge côté eau Wassersseitiger Druckverlust Caídas de presión lado agua	kPa 6	0,9	3,4	9,9	10,6	23,2	27,8	62,6	13,0	13,5	25,9	-	-		
	kPa 5	0,8	2,4	6,8	8,2	13,1	20,0	50,3	12,3	12,4	25,0	20,9	25,0		
	kPa 4	0,7	2,1	5,7	7,2	11,0	16,0	36,5	11,1	11,8	22,0	18,8	20,0		
	kPa 3	0,5	1,7	4,6	5,6	8,8	13,4	29,9	11,6	10,3	20,3	18,0	20,5		
	kPa 2	0,4	1,5	2,5	3,4	7,6	11,0	23,3	10,0	7,7	17,4	11,0	14,3		
	kPa 1	0,5	1,4	2,8	2,8	7,4	9,9	17,2	7,5	4,4	14,0	10,1	12,1		
65/55 °C 20 °C	Potenza termica Heating capacity Puissance thermique Heizleistung Energía térmica	W 6	1230	2040	2810	2810	3730	4030	5040	5950	6230	7770	-	-	
		W 5	1100	1870	2600	2550	3400	3660	4460	5660	5960	7440	10010	11310	
		W 4	970	1670	2410	2340	3080	3310	3800	5480	5690	7240	8920	10070	
		W 3	870	1470	2160	2060	2760	3060	3290	5030	5320	6790	8080	9110	
		W 2	750	1320	1740	1650	2450	2790	2790	4340	4190	6340	6850	7720	
		W 1	700	1200	1560	1440	2160	2540	2500	3420	3440	5900	6270	7410	
	Portata acqua Water flow Débit d'eau Wassermenge Flujo de agua	l/h 6	108	179	246	246	327	353	442	522	546	681	-	-	
		l/h 5	97	164	228	224	298	322	392	497	523	653	878	992	
		l/h 4	85	146	212	205	271	291	333	480	499	635	782	883	
		l/h 3	76	129	190	181	242	268	290	441	466	596	709	799	
		l/h 2	66	116	153	145	215	245	245	382	368	558	600	677	
		l/h 1	61	105	137	126	190	223	219	300	302	517	550	650	
	Perdite di carico lato acqua Water pressure drop Pertes charge côté eau Wassersseitiger Druckverlust Caídas de presión lado agua	kPa 6	2,5	8,3	18,6	18,5	37,0	42,5	63,1	21,7	23,5	42,9	-	-	
		kPa 5	2,1	7,1	13,0	13,5	27,2	30,1	52,0	19,9	21,8	40,0	40,9	47,1	
		kPa 4	1,7	5,8	11,5	11,6	26,5	28,0	38,0	18,8	20,1	37,8	33,0	37,9	
		kPa 3	1,1	4,7	9,6	9,4	21,8	21,3	28,0	16,2	17,8	33,0	27,5	31,5	
		kPa 2	0,9	3,9	6,1	6,4	17,7	18,3	23,9	12,5	11,7	30,0	20,2	23,2	
		kPa 1	0,9	3,3	5,1	5,7	14,2	15,6	13,6	8,2	8,3	23,7	17,1	21,5	
70/60 °C 20 °C	Potenza termica Heating capacity Puissance thermique Heizleistung Energía térmica	W 6	1410	2310	3170	3170	4210	4550	5680	6700	7010	8770	-	-	
		W 5	1260	2120	2930	2880	3840	4140	5040	6390	6730	8400	11340	12810	
		W 4	1110	1890	2730	2650	3490	3750	4290	6180	6420	8180	10080	11380	
		W 3	990	1670	2450	2330	3120	3450	3710	5680	5990	7670	9130	10290	
		W 2	860	1500	1970	1860	2760	3150	3150	4910	4730	7160	7730	8720	
		W 1	790	1360	1750	1630	2450	2870	2810	3850	3880	6660	7080	8370	
	Portata acqua Water flow Débit d'eau Wassermenge Flujo de agua	l/h 6	124	203	279	278	370	400	499	589	616	771	-	-	
		l/h 5	111	186	258	253	337	364	442	561	591	738	996	1125	
		l/h 4	98	166	240	232	306	329	377	543	564	718	886	1000	
		l/h 3	87	147	215	205	274	303	326	499	527	674	802	904	
		l/h 2	75	132	173	164	243	276	277	431	415	629	679	766	
		l/h 1	70	119	154	143	215	252	247	339	341	585	622	736	
	Perdite di carico lato acqua Water pressure drop Pertes charge côté eau Wassersseitiger Druckverlust Caídas de presión lado agua	kPa 6	3,1	10,2	22,6	22,5	45,1	51,7	74,6	26,3	28,6	52,5	-	-	
		kPa 5	2,6	8,8	15,7	16,3	32,9	35,1	61,4	24,2	26,6	48,6	51,3	58,8	
		kPa 4	2,1	7,2	13,8	14,1	27,9	28,9	44,3	22,9	24,4	46,3	41,2	47,2	
		kPa 3	1,4	5,8	11,5	11,3	21,9	25,7	32,8	19,7	21,7	41,4	34,2	39,2	
		kPa 2	1,1	4,8	7,4	7,7	21,5	22,0	28,4	15,2	14,2	36,6	25,1	28,8	
		kPa 1	1,1	4,0	6,1	7,0	14,0	18,8	15,7	10,0	10,1	28,9	21,3	26,7	
Portata aria Air flow Débit d'air Luftstrom Flujo de aire	m³/h 6	253	393	511	497	792	776	843	1171	1144	1402	-	-		
	m³/h 5	208	340	451	438	669	655	687	1101	1084	1297	2307	2294		
	m³/h 4	174	291	395	379	570	556	564	1010	994	1230	1911	1902		
	m³/h 3	144	246	346	338	487	478	471	896	884	1102	1633	1628		
	m³/h 2	125	211	269	260	415	404	401	724	718	978	1224	1230		
	m³/h 1	108	187	233	225	360	350	340	530	525	870	1050	1088		
Livello di potenza sonora Sound power level Niveau de puissance sonore Schall-Leistungspegel Nivel de potencia acústica	(E)	dB(A) 6	50	56	50	53	56	57	58	68	68	61	-	-	
		dB(A) 5	47	52	47	47	51	53	53	68	68	59	69	69	
		dB(A) 4	43	47	44	45	46	48	47	66	66	58	66	66	
		dB(A) 3	36	43	40	41	42	44	43	64	64	56	63	63	
		dB(A) 2	37	39	34	35	38	41	39	59	59	54	58	58	
		dB(A) 1	31	34	30	30	35	38	35	52	52	52	55	55	
	Livello di pressione sonora Sound pressure level Niveau de pression sonore Schall-Druckpegel Nivel de presión sonora	(E)	dB(A) 6	41	47	41	44	47	48	49	59	59	52	-	-
			dB(A) 5	36	43	38	38	42	44	44	59	59	50	60	60
			dB(A) 4	31	38	35	36	37	39	38	57	57	49	57	57
			dB(A) 3	27	34	31	32	33	35	34	55	55	47	54	54
			dB(A) 2	25	30	25	26	29	32	30	50	50	45	49	49
			dB(A) 1	22	25	21	21	26	29	26	43	43	43	46	46

- **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 than 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 Schalleistungspegels 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

Motore asincrono - Asynchronous motor Moteur asynchrone - Asynchronmotor - Motor asíncrono			10	20	30	40	50	60	70	80	90	100	110	120
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	(E)	W 6	37	55	61	61	94	94	98	166	166	158	-	-
		W 5	30	42	50	50	72	80	76	155	155	148	251	251
		W 4	23	32	43	43	59	59	59	144	144	137	230	230
		W 3	17	27	36	35	48	48	50	131	131	126	215	212
		W 2	16	22	26	26	37	40	40	113	113	117	180	180
		W 1	13	18	18	18	33	33	33	91	91	108	146	146
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	(E)	A 6	0,17	0,25	0,26	0,26	0,40	0,40	0,43	0,79	0,79	0,72	-	-
		A 5	0,13	0,19	0,22	0,22	0,31	0,31	0,33	0,72	0,72	0,67	1,13	1,13
		A 4	0,10	0,14	0,18	0,18	0,24	0,24	0,26	0,66	0,66	0,62	1,04	1,04
		A 3	0,08	0,12	0,15	0,15	0,20	0,20	0,21	0,60	0,60	0,58	0,99	0,99
		A 2	0,07	0,10	0,11	0,11	0,16	0,16	0,17	0,51	0,51	0,54	0,85	0,85
		A 1	0,06	0,09	0,08	0,08	0,14	0,14	0,15	0,41	0,41	0,50	0,72	0,72
Tensione di alimentazione Power supply Tension d'alimentation Stromversorgung Tensión de alimentación			~230V / 1ph / 50-60Hz											

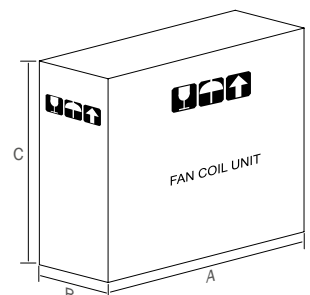
velocità cablate / wired speed / vitesse câblée / verkabelte Geschwindigkeitsstufe / velocidades cableadas (E) = Eurovent

Motore ECM - ECM motor Moteur ECM - ECM-Motor - Motor ECM			10	20	30	40	50	60	70	80	90	100	110	120
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	(E)	W 6	-	29	29	29	58	58	60	106	119	137	-	-
		W 5	-	22	21	21	37	37	49	94	110	133	248	248
		W 4	-	17	15	15	26	26	28	74	88	112	197	197
		W 3	-	13	12	12	18	18	19	58	67	107	130	137
		W 2	-	10	8	8	14	14	14	34	40	78	70	75
		W 1	-	9	7	7	11	11	11	20	24	50	50	50
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	(E)	A 6	-	0,22	0,23	0,23	0,50	0,50	0,52	0,83	0,93	1,11	-	-
		A 5	-	0,16	0,16	0,16	0,33	0,33	0,35	0,74	0,87	1,07	1,68	1,68
		A 4	-	0,14	0,12	0,12	0,23	0,23	0,25	0,59	0,70	0,88	1,32	1,32
		A 3	-	0,11	0,10	0,10	0,17	0,17	0,17	0,45	0,53	0,84	0,91	1,00
		A 2	-	0,10	0,08	0,08	0,13	0,13	0,13	0,27	0,32	0,58	0,52	0,60
		A 1	-	0,09	0,07	0,07	0,11	0,11	0,11	0,16	0,18	0,34	0,38	0,38
Tensione di controllo velocità (Vcc) Speed control voltage (Vdc) Tension de contrôle de vitesse (Vcc) Drehzahlregelspannung (Vcc) Voltaje de control de velocidad (Vcc)	(E)	Vdc 6	-	8,3	8,6	8,6	8,4	8,4	8,3	8,1	8,1	10,0	-	-
		Vdc 5	-	6,8	7,1	6,5	7,0	7,0	7,0	7,8	7,9	9,8	10	10
		Vdc 4	-	5,5	5,6	5,5	5,9	5,8	5,8	7,1	7,2	8,8	8,2	8,2
		Vdc 3	-	4,2	4,6	4,6	4,8	4,8	4,8	6,4	6,5	8,6	6,5	6,7
		Vdc 2	-	3,3	2,9	3,3	4,5	3,9	4,0	5,1	5,1	7,4	5,0	5,2
		Vdc 1	-	2,4	2,1	2,3	4,1	3,3	3,3	4,0	4,0	6,0	4,0	4,0
Tensione di alimentazione Power supply Tension d'alimentation Stromversorgung Tensión de alimentación			~230V / 1ph / 50-60Hz											

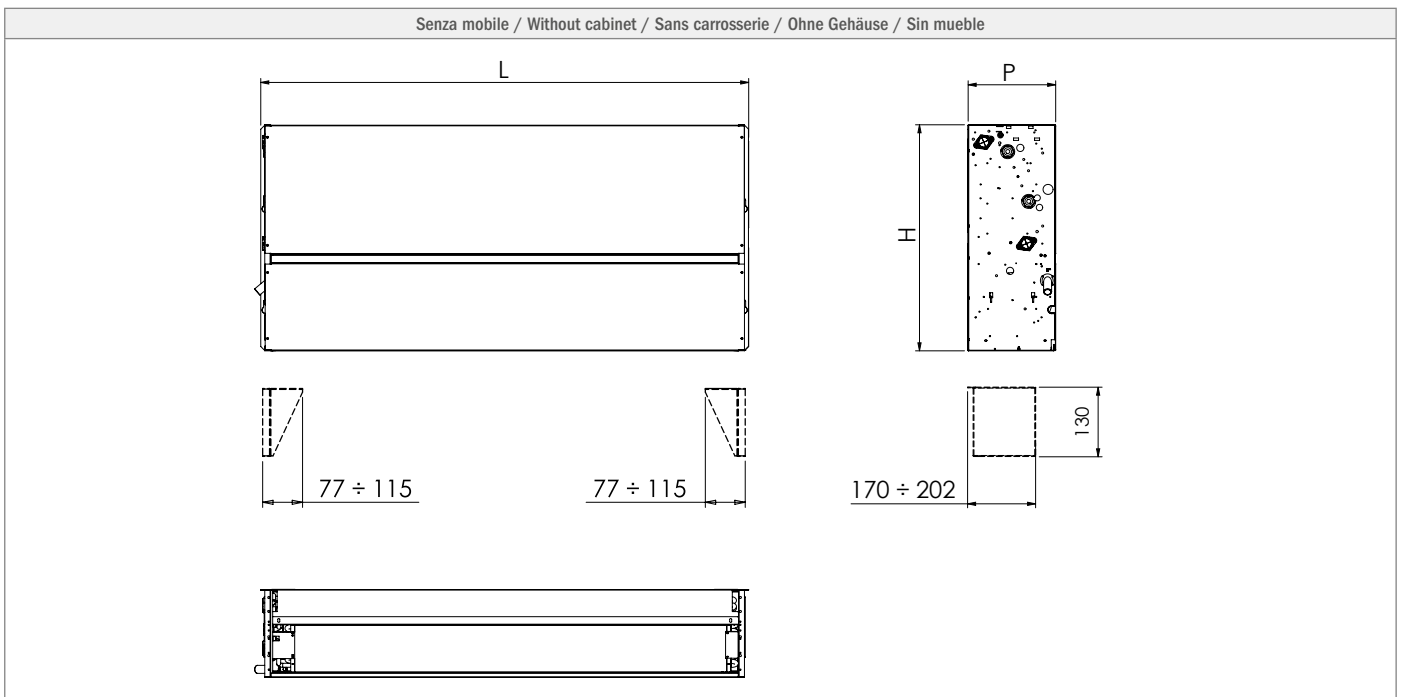
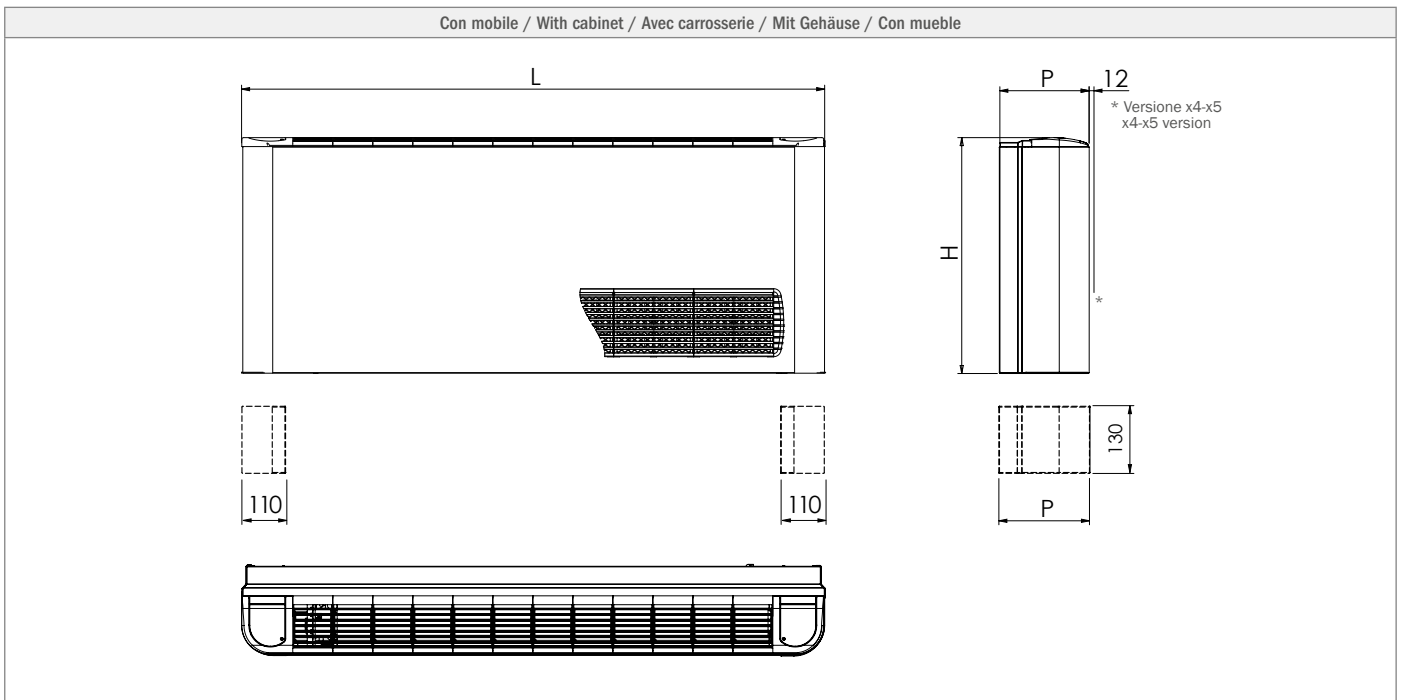
velocità cablate / wired speed / vitesse câblée / verkabelte Geschwindigkeitsstufe / velocidades cableadas (E) = Eurovent

Weights and packaging

	dimensioni	peso netto	peso lordo	bancale		
	dimension	net weight	gross weight	palette		
	[mm] (AxBxC)	[kg]	[kg]	[mm] L x P	[n.] unità - units	[kg] tot.
MOD. 10	680 x 235 x 560	14	15	1200 x 800	17	270
MOD. 20	880 x 235 x 560	17	18	1300 x 900	17	321
MOD. 30	1080 x 235 x 560	22	26	1200 x 1000	13	353
MOD. 40	1080 x 235 x 560	22	24	1200 x 1000	13	327
MOD. 50	1280 x 235 x 560	26	28	1300 x 1000	13	379
MOD. 60	1280 x 235 x 560	26	28	1300 x 1000	13	379
MOD. 70	1280 x 235 x 640	31	33	1300 x 1000	10	345
MOD. 80	1480 x 235 x 640	36	39	1500 x 1000	10	405
MOD. 90	1480 x 235 x 640	36	39	1500 x 1000	10	405
MOD. 100	1680 x 270 x 640	48	51	1800 x 900	7	380
MOD. 110	1980 x 270 x 640	56	60	2000 x 900	7	450
MOD. 120	1980 x 270 x 640	56	60	2000 x 900	7	450

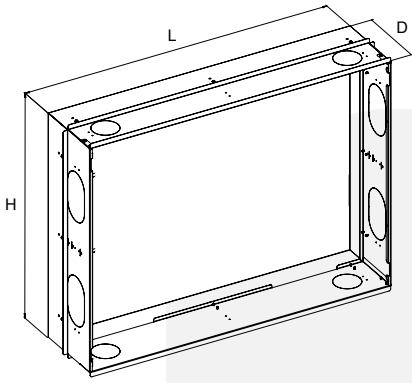


Con mobile / With cabinet Avec carrosserie / Mit Gehäuse / Con mueble			10	20	30	40	50	60	70	80	90	100	110	120
Lunghezza / Length / Longueur / Länge / Longitud	L	mm	660	860	1060	1060	1260	1260	1260	1460	1460	1660	1960	1960
Altezza / Height / Hauteur / Höhe / Altura	H	mm	480	480	480	480	480	480	585	585	585	605	605	605
Profondità / Depth / Profondeur / Tiefe / Profundidad	P	mm	225	225	225	225	225	225	225	225	225	257	257	257
Senza mobile / Without cabinet Sans carrosserie / Ohne Gehäuse / Sin mueble			10	20	30	40	50	60	70	80	90	100	110	120
Lunghezza / Length / Longueur / Länge / Longitud	L	mm	420	620	820	820	1020	1020	1020	1220	1220	1385	1685	1685
Altezza / Height / Hauteur / Höhe / Altura	H	mm	460	460	460	460	460	460	565	565	565	585	585	585
Profondità / Depth / Profondeur / Tiefe / Profundidad	P	mm	220	220	220	220	220	220	220	220	220	252	252	252

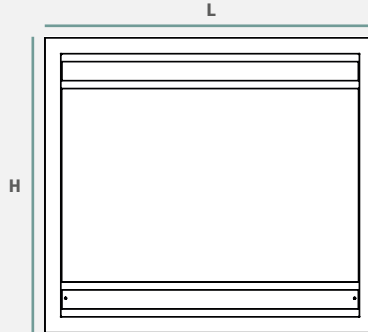


□ Concealed panel

VCE | VCE-ECM



MNFP-V



VCE X2-X3

	technical spaces size	front panel size
MOD. 10	780 x 220 x (H)690	840 x 7 x (H)750
MOD. 20	930 x 220 x (H)690	990 x 7 x (H)750
MOD. 30	1080 x 220 x (H)690	1140 x 7 x (H)750
MOD. 40	1080 x 220 x (H)690	1140 x 7 x (H)750
MOD. 50	1380 x 220 x (H)690	1440 x 7 x (H)750
MOD. 60	1380 x 220 x (H)690	1440 x 7 x (H)750
MOD. 70	1380 x 220 x (H)775	1440 x 7 x (H)835
MOD. 80	1530 x 220 x (H)775	1590 x 7 x (H)835
MOD. 90	1530 x 220 x (H)775	1590 x 7 x (H)835

L x D x H (mm)



The series lends itself to be easily installed also in the built-in version through the special niche and its front panel specially designed and developed in multiple configurations and variants in order to satisfy any application need.

This installation method, in addition to ensuring perfect integration of the unit within the environment, allows at the same time to recover more living space, offering the possibility of confining the unit and any accessories supplied inside the niche, specially sized to ensure total accessibility during the installation and maintenance phases.

VCE Concealed panel versions

MNFP-V

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.



Compatibility of controls

For the complete specifications of the controls, please refer to the part relating to the controls, available from page 164.

503FA	<ul style="list-style-type: none"> - Termostato elettronico con display LCD - Electronic thermostat with LCD display - Thermostat électronique avec écran LCD - Elektronisches Thermostat mit LCD-Display - Termostato electrónico con pantalla LCD
AGKNFC101 (KNX)	<ul style="list-style-type: none"> - Regolatore per fan coil con protocollo KNX - KNX fan coil controller
CD11	<ul style="list-style-type: none"> - Comando senza regolazione di temperatura - Control without temperature control - Commande sans réglage de température - Regler für Geräte für 2-Leiter oder 4-Leiter-System ohne Temperaturregelung - Control sin regulación de temperatura
COM-B	<ul style="list-style-type: none"> - Commutatore 3 velocità con selettore rotativo BTicino - BTicino rotary selector switch - Commutateur 3 vitesses avec sélecteur rotatif BTicino - Umschalter der 3 Geschwindigkeitsstufen mittels Wahlschalter BTicino - Conmutador de 3 velocidades con selector giratorio b-Ticino
COM-V	<ul style="list-style-type: none"> - Commutatore 3 velocità con selettore a slitta Vimar - Vimar 3-speed slide selector - Commutateur 3 vitesses avec sélecteur à glissière Vimar - Umschalter der 3 Geschwindigkeitsstufen mittels Schiebeschalter Vimar - Conmutador de 3 velocidades con selector deslizante Vimar
FAN01	<ul style="list-style-type: none"> - Regolatore per fan coil configurabile con protocollo di comunicazione BACnet - Configurable fan coil controller with BACnet communication protocol - Régulateur pour ventilconvecteur configurable avec protocole de communication BACnet - Regler für Gebläsekonvektor konfigurierbar über Kommunikationsprotokoll BACnet - Controlador fancoil configurable con protocolo de comunicación BACnet
i-10	<ul style="list-style-type: none"> - Termostato elettronico analogico base (unità a 2 e 4 tubi) - Analog electronic thermostat (2 and 4 pipe units) - Thermostat électronique analogique base (unité à 2 et 4 tubes) - Analoger elektronischer Basisthermostat für Geräte mit 2-Leiter- oder 4-Leiter-System - Termostato electrónico analógico base (unidades de 2 y 4 tubos)
i-20	<ul style="list-style-type: none"> - Termostato elettronico analogico (unità a 2 tubi) - Analog electronic thermostat (2 pipe units) - Thermostat électronique analogique (unité à 2 tubes) - Analoger elektronischer Thermostat für Geräte mit 2-Leiter-System - Termostato electrónico analógico (unidad de 2 tubos)
i-25	<ul style="list-style-type: none"> - Termostato elettronico analogico (unità a 4 tubi) - Analog electronic thermostat (4 pipe units) - Thermostat électronique analogique (unité à 4 tubes) - Analoger elektronischer Thermostat für Geräte mit 4-Leiter-System - Termostato electrónico analógico (unidad de 4 tubos)
i-30	<ul style="list-style-type: none"> - Termostato elettronico programmabile con display LCD - Programmable electronic thermostat with LCD display - Thermostat électronique programmable avec écran LCD - Programmierbarer elektronischer Thermostat für Gebläsekonvektoren mit 2/4-Leiter-System, mit LCD-Display - Termostato electrónico programable con pantalla LCD
i-50	<ul style="list-style-type: none"> - Termostato elettronico programmabile con display LCD - Programmable electronic thermostat with LCD display - Thermostat électronique programmable avec écran LCD - Programmierbarer elektronischer Thermostat für Gebläsekonvektoren mit 2/4-Leiter-System, mit LCD-Display - Termostato electrónico programable con pantalla LCD
i-60	<ul style="list-style-type: none"> - Termostato elettronico touch con connessione WiFi per gestione remota - Touch fan coil thermostat with WiFi connection - Thermostat électronique tactile avec connexion WiFi pour gestion à distance - Elektronischer Touch-Thermostat mit WiFi-Anbindung für Fernüberwachung - Termostato electrónico Touch con conexión WiFi para gestión remota
i-70	<ul style="list-style-type: none"> - Termostato elettronico touch configurabile, con protocollo di comunicazione Modbus/BACnet (unità a 2 e 4 tubi) - Touch programmable electronic thermostat with Modbus/BACnet protocol communication (unit 2 and 4 pipe system) - Thermostat électronique tactile configurable, avec protocole de communication Modbus/BACnet (unité à 2 et 4 tubes) - Konfigurierbarer elektronischer Touch-Thermostat, mit Modbus/BACnet-Kommunikation mit 2/4-Leiter-System - Termostato electrónico Touch configurable, con protocolo de comunicación Modbus / Bacnet (unidades de 2 y 4 tubos)
i-Basic 1	<ul style="list-style-type: none"> - Termostato elettronico analogico base - Analog base electronic thermostat - Thermostat électronique analogique base - Analoger elektronischer Basisthermostat für Geräte mit 2-Leiter oder 4-Leiter-System - Termostato electrónico analógico base
i-Basic 2	<ul style="list-style-type: none"> - Termostato elettronico analogico - Analog electronic thermostat - Thermostat électronique analogique - Analoger elektronischer Thermostat für Geräte mit 2-Leiter oder 4-Leiter-System - Termostato electrónico analógico

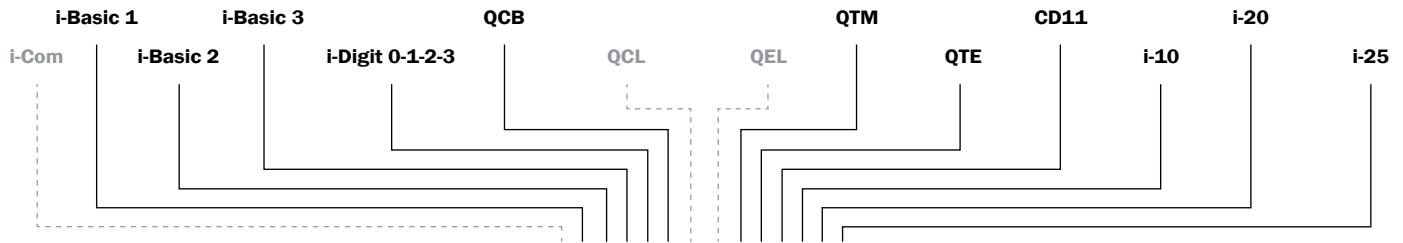
i-Basic 3	<ul style="list-style-type: none"> - Termostato elettronico analogico con programmazione semplificata a DIP-SWITCH - Analog electronic thermostat with simplified DIP-SWITCH programming - Thermostat électronique analogique avec programmation simplifiée à DIP-SWITCH - Analoger elektronischer Thermostat mit vereinfachter DIP-Schalter Programmierung - Termostato electrónico analógico con programación simplificada DIP-SWITCH
i-Com	<ul style="list-style-type: none"> - Comando senza regolazione di temperatura - Base switch without temperature control - Commande sans réglage de température - Regler für Geräte für 2-Leiter oder 4-Leiter-System ohne Temperaturregelung - Control sin regulación de temperatura
i-Digit 0-1-2-3	<ul style="list-style-type: none"> - Termostato elettronico programmabile con display LCD - Programmable electronic thermostat with LCD display - Thermostat électronique programmable avec écran LCD - Elektronischer Thermostat für Gebläsekonvektoren mit 2-Leiter oder 4-Leiter-System, mit LCD-Display - Termostato electrónico programable con pantalla LCD
IR-C	<ul style="list-style-type: none"> - Telecomando a raggi infrarossi (per cassette e sistemi TRI/F1 2.0 + S-MOD) - Infrared remote control (for cassette and TRI/F1 2.0 + S-MOD systems) - Télécommande à infrarouges (pour cassette et TRI/F1 2.0 + S-MOD systèmes) - Infrarot-Fernbedienung (für Kassettengeräte und TRI/F1 2.0 + S-MOD Systeme) - Control remoto IR (para fancoil de tipo cassette e sistemas TRI/F1 2.0 + S-MOD)
IR-T	<ul style="list-style-type: none"> - Telecomando a raggi infrarossi (per unità a parete) - Infrared remote control (for wall unit) - Télécommande à infrarouges (pour unité murale) - Infrarot-Fernbedienung für wandmontierte Geräte - Control remoto IR (para unidad de pared)
QCB	<ul style="list-style-type: none"> - Quadro comando base - Base control panel - Panneau de contrôle base - Basisbediengerät - Panel de control base
QCL	<ul style="list-style-type: none"> - Quadro comando base in lamiera - Sheet base control panel - Panneau de contrôle base en tôle - Basisbediengerät aus Metall - Panel de control base en chapa
QEL	<ul style="list-style-type: none"> - Quadro comando base in lamiera - Sheet base control panel - Panneau de contrôle base en tôle - Basisbediengerät aus Metall - Panel de control base en chapa
QTE	<ul style="list-style-type: none"> - Quadro comando base con termostato ambiente elettronico - Base control panel with electronic room thermostat - Panneau de contrôle base avec thermostat ambient électronique - Basisbediengerät mit elektronischem Raumthermostat - Panel de control base con termostato ambiente electrónico
QTM	<ul style="list-style-type: none"> - Quadro comando base con termostato ambiente elettromeccanico (a bulbo) - Base control panel with room electromechanical temperature bulb thermostat - Panneau de contrôle base avec thermostat ambient électromécanique (à bulbe) - Basischalttafel mit elektromechanischem Raumtempertur-Thermostat (mit Stabfühler) - Panel de control base con termostato ambiente electromecánico (a bulbo)
RWIECM 1-2	<ul style="list-style-type: none"> - Interfaccia utente a parete - Wall user interface - Interface utilisateur mural - Wandmontiertes Bediengerät - Interfaz de usuario de pared
S-MOD	<ul style="list-style-type: none"> - Sistema di supervisione - Supervision system - Système de supervision - Überwachungssystem - Sistema de supervisión
TRI/F1 2.0	<ul style="list-style-type: none"> - Controllo con telecomando IR o interfaccia a muro con protocollo di comunicazione Modbus - Infrared remote controller or wall controller with Modbus communication protocol - Contrôle avec télécommande IR ou interface mural avec protocole de communication Modbus - Steuerung mittels Infrarot-Fernbedienung oder wandmontiertes Bedienfeld mit Modbus-Kommunikationsprotokoll - Control con mando IR o interfaz de pared con protocolo de comunicación Modbus

Compatibility of controls

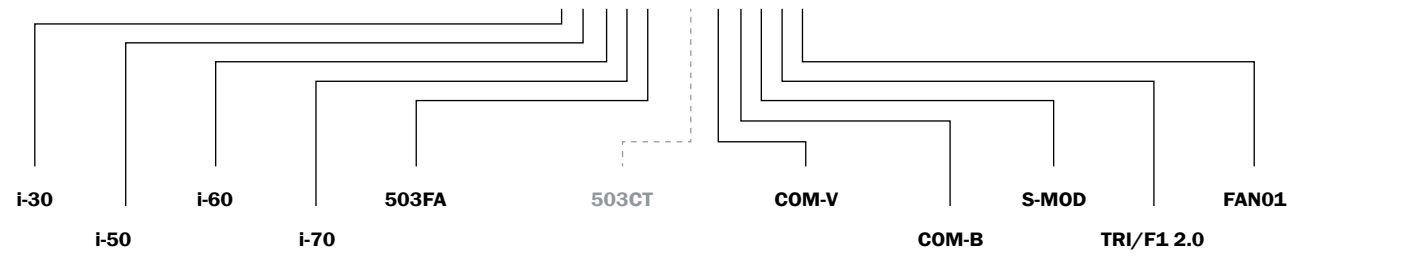
Scheda di potenza per controllo a 3 velocità
 Power chart for 3-speed control
 Fiche de puissance pour contrôle à 3 vitesses
 Leistungsplatine zur Steuerung mit 3 Geschwindigkeiten
 Tarjeta de alimentación para el control de 3 velocidades

	i-Com	i-Basic 1	i-Basic 2	i-Basic 3	i-Digit 0-1-2-3	TRI/F1 2.0	CD11	i-10	i-20	i-25	i-30	i-50	i-60	i-70	503FA	S-MOD	FAN01
Mod. 10																	
Mod. 20																	
Mod. 30
Mod. 40
Mod. 50
Mod. 60
Mod. 70
Mod. 80	.	.	○	○	○	○	○	.	.	.
Mod. 90	.	.	○	○	○	○	○	.	.	.
Mod. 100	.	.	○	○	○	○	○	.	.	.
Mod. 110	.	.	○	○	○	○	○	.	.	.
Mod. 120	.	.	○	○	○	○	○	.	.	.

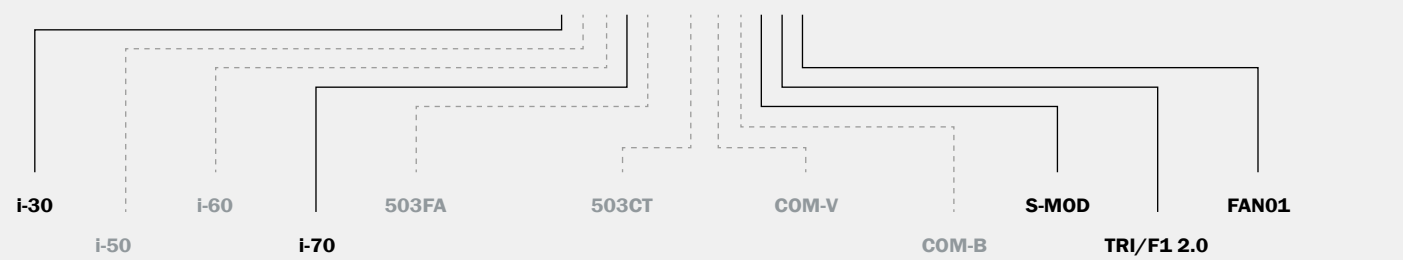
VCE | VCE-ECM



VCE



VCE-ECM

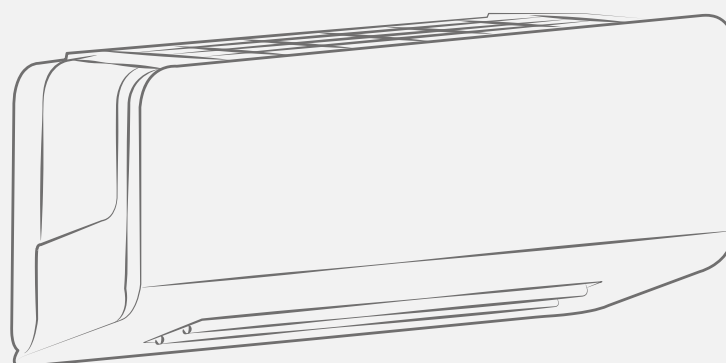


- Compatible
Compatible
Compatible
Kompatibel
Compatible
- - - Non compatibile
Not compatible
Non compatible
Nicht kompatibel
NO compatible
- Non necessaria
Not necessary
Non nécessaire
Nicht erforderlich
No Requerido
- Necessaria (inclusa di serie)
Necessary (included as standard)
Nécessaire (comprise de série)
Erforderlich (serienmäßig inbegriffen)
Requerido (incluido de serie)
- Necessaria (non inclusa)
Necessary (not included)
Nécessaire (non comprise)
Erforderlich (nicht inbegriffen)
Requerido (no incluido)

GALILEO


GALILEO-ECM


Wall mounted fan coil unit



A GROUP S.p.A (Trademark VENTILCLIMA) participates in the ECP programme for FCU. Check ongoing validity of certificate: www.eurovent-certification.com

The best solution for those looking for style

 **1.3 ÷ 3.8** kW
cooling

 **1.5 ÷ 4.3** kW
heating

 **50%**
energy saving up to 50%

 **250 - 780** m³/h
air flow





**Comfort with low noise operation:**

The main feature of the series lies in the ability to reach the temperature desired by the user in a rapid and dynamic manner, keeping it in complete autonomy through an intelligent modulation of the air flow rate that favors low ventilation speeds, to direct benefit of the psychophysical comfort of the user, always guaranteed by low noise emissions.

**High performance:**

Designed to optimize thermodynamic performances at low rpm, the tangential fan ensures greater silence with high performance.

**High energy savings:**

An aspect of considerable importance is also the high energy savings made possible through the use of an exclusive inverter motor that allows a significant reduction in energy consumption.

**Reduced depth:**

The reduced thickness of only 185mm and the masterful combination of materials as steel for frontal casing, ensure solid construction with great flexibility and customization options, together with a perfect linearity of the shapes.

**Customization:**

Thanks to the possibility of installation of the valves of two ways, three ways, "pressure independent" selected in phase of order, it makes easy the mounting of the unit in Plug & Play. With the use of these components combined to ECM motors, it is possible to efficiently prevent energy waste, since the water flow is interrupted when the unit is switched off, unlike the normal splits on which the flow even when the unit is not in operation. This solution also ensures high ease of installation and maintenance and does not require the use of special niches since everything is perfectly integrated into the unit.

**Simplify maintenance:**

Some constructive particulars allow to simplify the operations of installation (easy to do for the configuration of the anchors, for one person) moreover the (posizionamento) and the removing of the cover it makes with the easy removal of 2/3 screws in function of the size.

The best solution for those looking for style

The new minimal design and cutting-edge technology make Galileo the perfect solution for installation in commercial and residential environments, where comfort and enhancement of the environment are the main features to be observed.

The aesthetic qualities, energy efficiency, excellent level of silence and top performance make the series GALILEO an extremely efficient and performing product. The reduced thickness of only 185mm and the masterful combination of materials as steel for frontal casing, ensure solid construction with great flexibility and customization options, together with a perfect linearity of the shapes.

Series can be provided with a wide range of valves, 2 or 3 ways, on-off, modulating, floating or pressure independent type, directly built-up on the unit, in order to reduce the installation costs.




☰ Versions




GALILEO | GALILEO ECM

NC/ECM-NC




- > Manual louvers

RC/ECM-RC




- > Motorized louvers
- > Mother board

RC-IR/ECM-RC-IR




- > Motorized louvers
- > Mother board
- > Infrared remote control + receiver

NC-2V/ECM-NC-2V




- > Manual louvers
- > 2-Way valve

RC-2V/ECM-RC-2V




- > Motorized louvers
- > Mother board
- > 2-Way valve

RC-IR-2V/ECM-RC-IR-2V




- > Motorized louvers
- > Mother board
- > Infrared remote control + receiver
- > 2-Way valve

NC-3V/ECM-NC-3V




- > Manual louvers
- > 3-Way valve

RC-3V/ECM-RC-3V

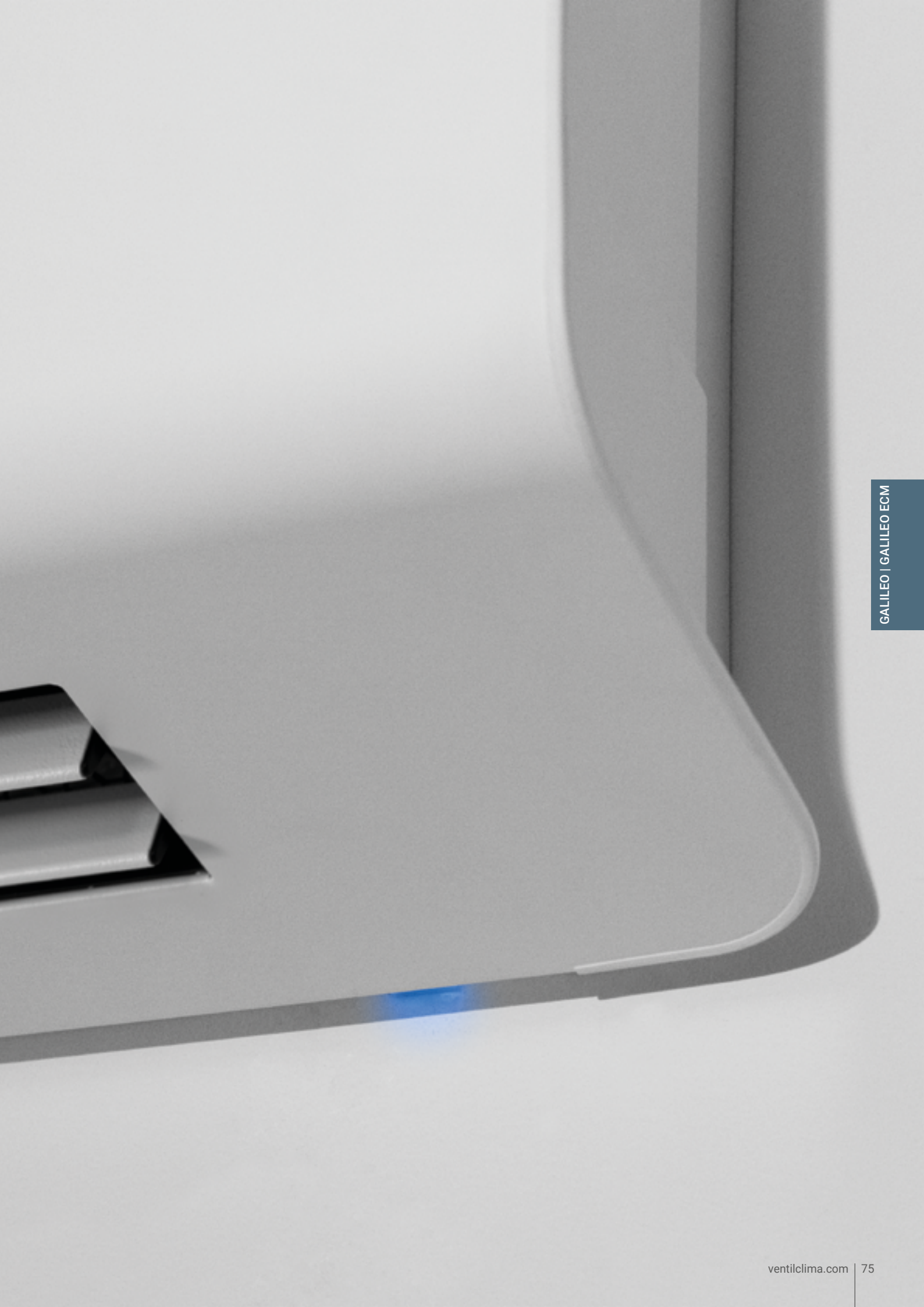


- > Motorized louvers
- > Mother board
- > 3-Way valve

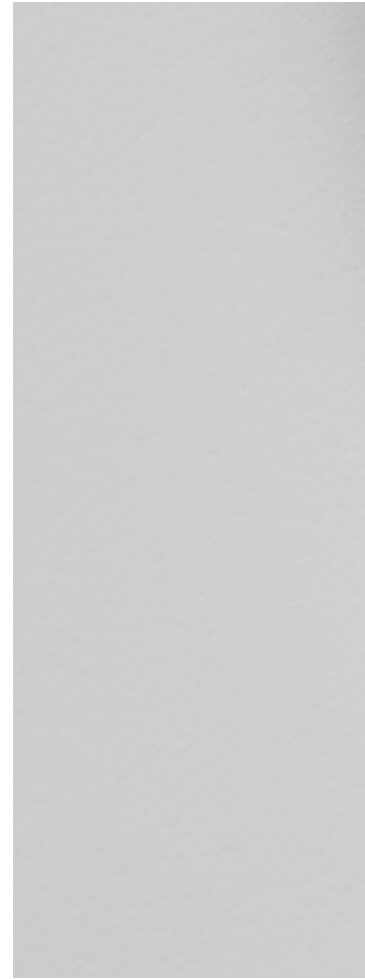
RC-IR-3V/ECM-RC-IR-3V

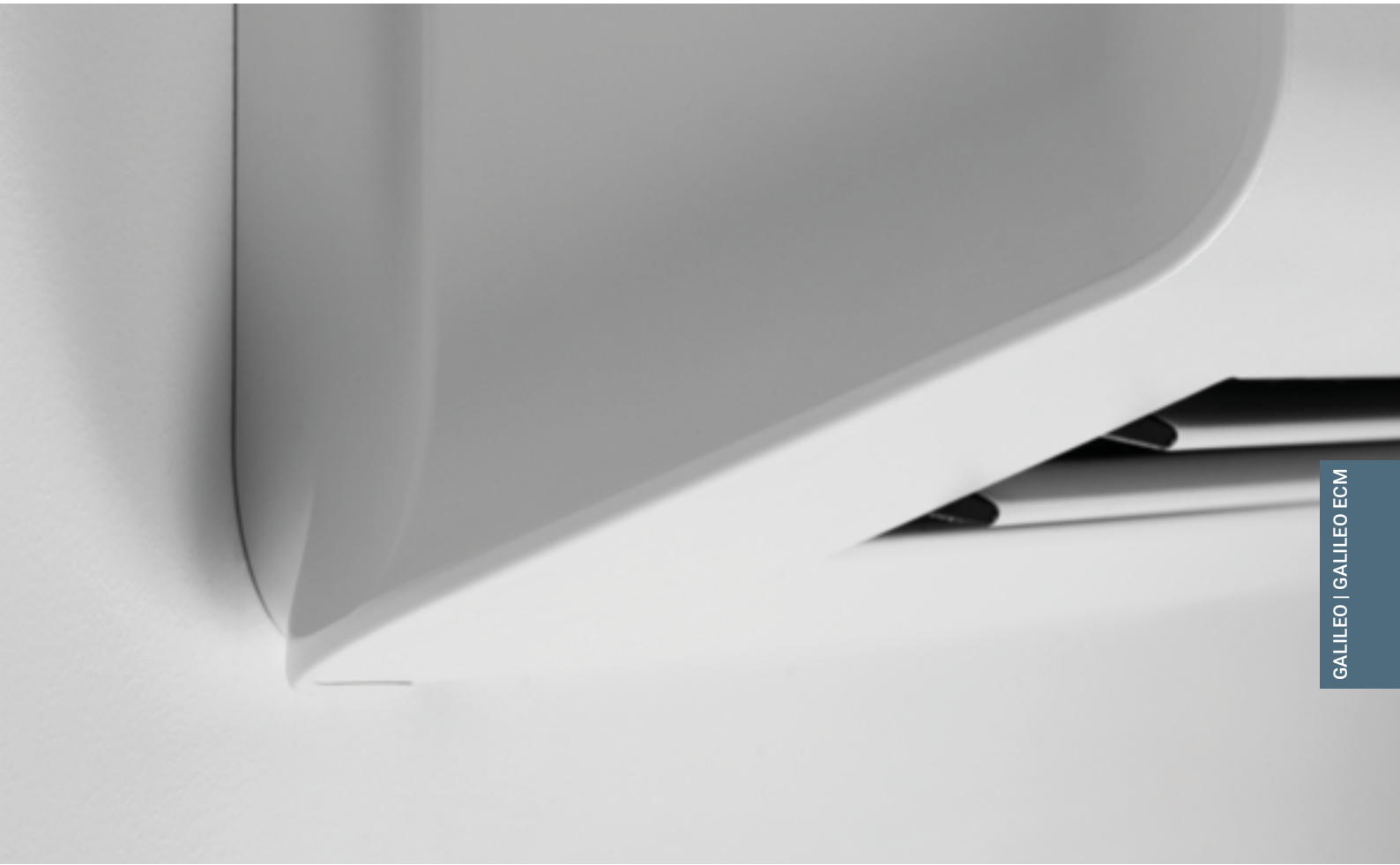


- > Motorized louvers
- > Mother board
- > Infrared remote control + receiver
- > 3-Way valve

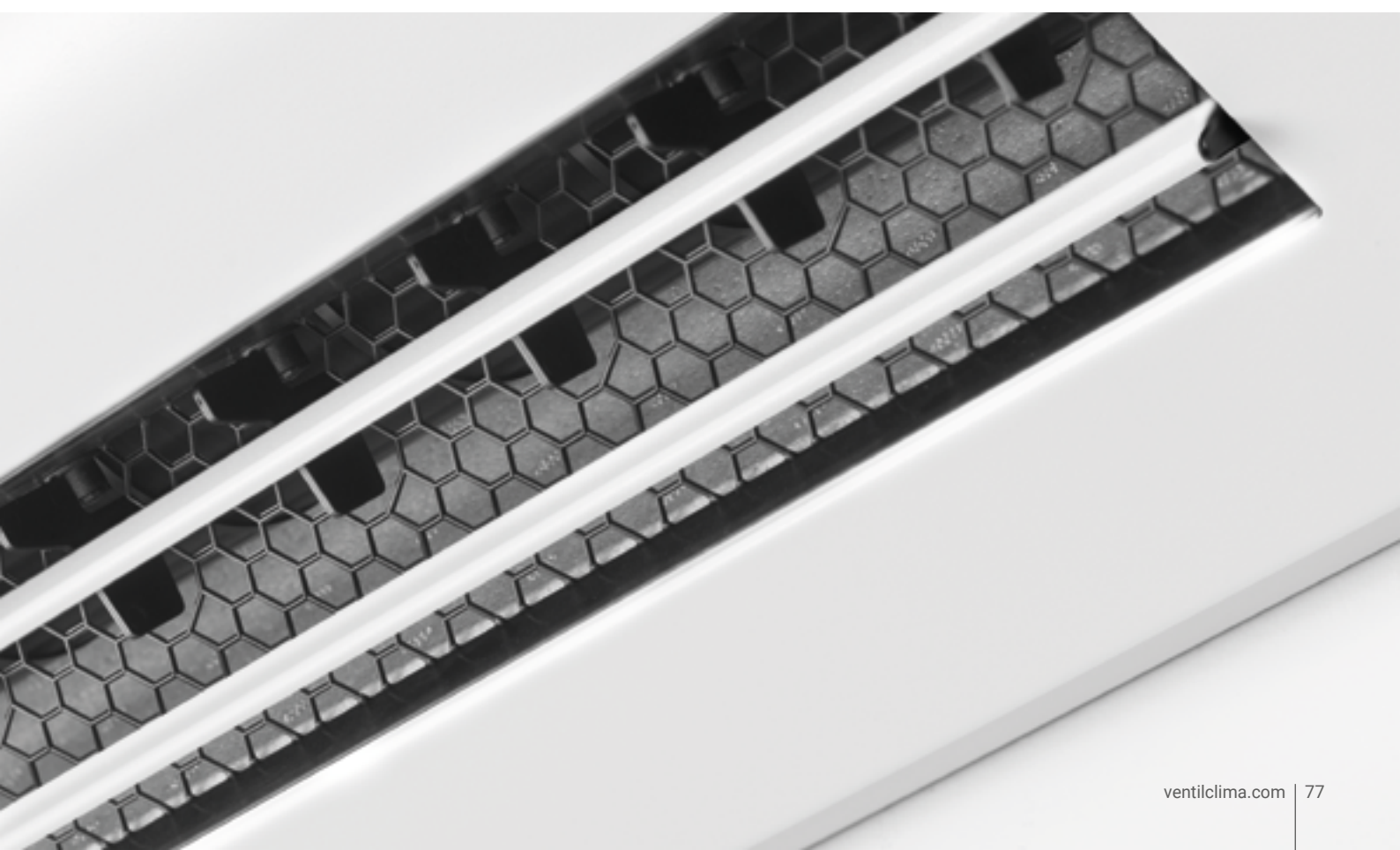


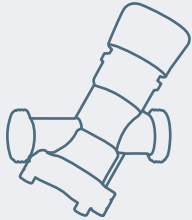
GALILEO | GALILEO ECM





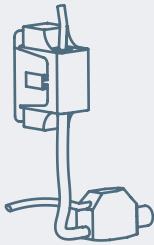
GALILEO | GALILEO ECM





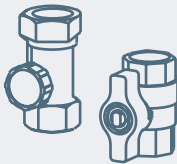
2 or 3-way control valves and pressure independent valves

The valves can be supplied directly installed on board, even in case of "pressure independent," type. This version ensures constant flow rate when the pressure is changeable and regulates the flow according to the temperature. The system will be balanced and will grant a high efficiency.

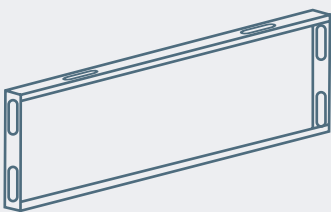


Condensate pump

Condensate pump with float and alarm switch. It can also be supplied already installed.



Valve Accessories



Pre-installation box

Recessed steel box in case hydraulic connections are required on right side (Units supplied with left side hydraulic connection only)

2 tubi - pipes - tubes Leiter - tubos			1	2	3	4
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 6	2300	2520	3510	3800
		W 5	2130	2350	3090	3410
		W 4	2040	2270	2910	3250
		W 3	1870	2080	2560	2920
		W 2	1730	1940	2310	2640
		W 1	1340	1510	1780	1940
	Potenza frigorifera sensibile Sensible cooling capacity Puissance frigorifique sensible Sensible Kälteleistung Potencia frigorífica total sensible	W 6	1860	2020	2760	3000
		W 5	1710	1860	2400	2560
		W 4	1630	1780	2250	2410
		W 3	1480	1620	1960	2150
		W 2	1350	1490	1750	1930
		W 1	980	1140	1290	1390
	Portata acqua Water flow Débit d'eau Wassermenge Flujo de agua	l/h 6	396	433	604	654
		l/h 5	366	404	531	587
		l/h 4	351	390	501	559
		l/h 3	322	358	440	502
		l/h 2	298	334	397	454
		l/h 1	230	260	306	334
	Perdite di carico lato acqua Water pressure drop Pertes charge côté eau Wasserseitiger Druckverlust Caídas de presión lado agua	kPa 6	11,2	25,5	36,9	55,1
		kPa 5	9,7	23,7	28,3	45,5
		kPa 4	9,1	22,6	25,4	43,4
kPa 3		7,4	19,4	21,0	35,1	
kPa 2		6,4	17,4	16,8	29,3	
kPa 1		3,4	11,5	10,6	16,9	
45/40 °C 20 °C	Potenza termica Heating capacity Puissance thermique Heizleistung Energía térmica	W 6	2640	2820	3870	4290
		W 5	2420	2600	3480	3790
		W 4	2310	2490	3270	3570
		W 3	2100	2290	2420	3140
		W 2	1940	2120	2321	2810
		W 1	1480	1610	1590	2080
	Portata acqua Water flow Débit d'eau Wassermenge Flujo de agua	l/h 6	454	485	666	738
		l/h 5	416	447	599	652
		l/h 4	397	428	562	614
		l/h 3	361	394	416	540
		l/h 2	334	365	400	483
		l/h 1	255	277	274	358
	Perdite di carico lato acqua Water pressure drop Pertes charge côté eau Wasserseitiger Druckverlust Caídas de presión lado agua	kPa 6	15,6	27,1	41,1	56,8
		kPa 5	13,4	23,4	31,2	47,1
		kPa 4	12,4	20,0	27,3	41,8
kPa 3		10,5	18,3	19,7	35,1	
kPa 2		9,2	16,0	16,1	27,9	
kPa 1		5,7	9,5	9,4	15,7	
Portata aria Air flow Débit d'air Luftstrom Flujo de aire	m³/h 6	586	554	797	778	
	m³/h 5	500	486	639	659	
	m³/h 4	464	462	576	598	
	m³/h 3	398	406	476	502	
	m³/h 2	356	367	417	448	
	m³/h 1	252	262	294	302	
Livello di potenza sonora Sound power level Niveau de puissance sonore Schall-Leistungspegel Nivel de potencia acústica	dB(A) 6	53	54	54	55	
	dB(A) 5	50	52	49	52	
	dB(A) 4	49	51	46	50	
	dB(A) 3	45	49	42	47	
	dB(A) 2	42	47	39	45	
	dB(A) 1	34	40	31	37	
Livello di pressione sonora Sound pressure level Niveau de pression sonore Schall-Druckpegel Nivel de presión sonora	dB(A) 6	45	45	45	46	
	dB(A) 5	42	43	40	43	
	dB(A) 4	40	42	37	41	
	dB(A) 3	36	40	33	38	
	dB(A) 2	34	38	30	36	
	dB(A) 1	25	31	22	29	
Contenuto d'acqua Water content Quantité d'eau Wasserinhalt Contenidos de agua	L	0.8	1.1	1.25	1.6	

- **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 / 50Hz
 - **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 / 50Hz
 - **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 / 50Hz
 - **Standard Einheit mit offenem Auslass:** externer statischer Druck = 0 Pa / Der Test zur Erfassung des Schalleistungspiegels 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 / 50Hz
 - **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 / 50Hz

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



Performance technical data



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Check ongoing validity of certificate:
www.eurovent-certification.com

Motore asincrono - Asynchronous motor Moteur asynchrone - Asynchronmotor - Motor asincrono			1	2	3	4
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	6	41	42	45	46
	W	5	26	27	30	30
	W	4	23	24	27	27
	W	3	20	21	22	23
	W	2	18	18	19	20
	W	1	13	13	13	14
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	6	0,23	0,23	0,24	0,24
	A	5	0,12	0,13	0,15	0,15
	A	4	0,11	0,11	0,13	0,13
	A	3	0,09	0,10	0,11	0,11
	A	2	0,08	0,09	0,10	0,10
	A	1	0,06	0,06	0,07	0,07
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

GALILEO | GALILEO ECM

Motore ECM - ECM motor Moteur ECM - ECM-Motor - Motor ECM			1	2	3	4
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	6	13	14	22	24
	W	5	11	12	14	16
	W	4	11	11	13	14
	W	3	9	10	11	11
	W	2	8	9	9	9
	W	1	7	8	6	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	6	0,17	0,14	0,19	0,16
	A	5	0,12	0,11	0,12	0,11
	A	4	0,12	0,10	0,11	0,09
	A	3	0,09	0,09	0,09	0,08
	A	2	0,08	0,08	0,08	0,07
	A	1	0,07	0,07	0,06	0,04
Tensione di controllo velocità (Vcc) Speed control voltage (Vdc) Tension de contrôle de vitesse (Vcc) Drehzahlregelspannung (Vcc) Voltaje de control de velocidad (Vcc)	Vdc	6	9,8	10,0	9,0	9,2
	Vdc	5	8,3	8,6	6,6	7,3
	Vdc	4	7,6	7,9	5,6	6,4
	Vdc	3	6,2	6,7	4,0	5,0
	Vdc	2	5,3	5,7	3,2	4,1
	Vdc	1	3,0	3,4	1,3	2,2
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



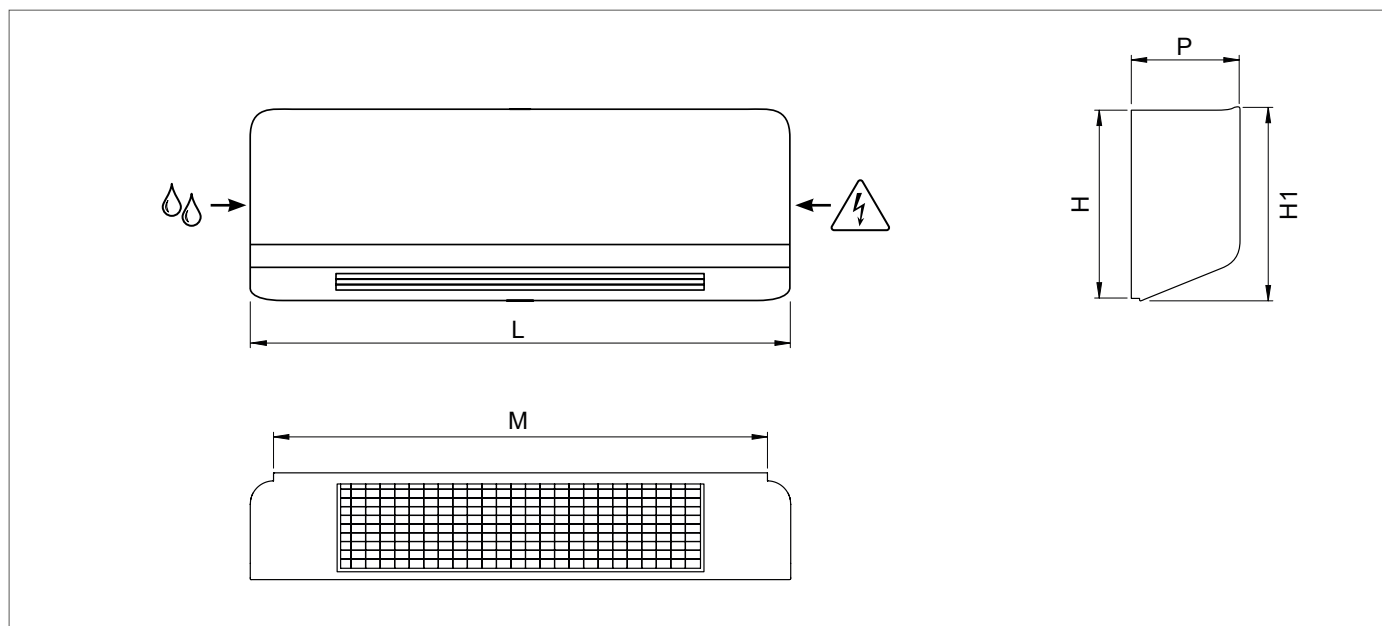
Working limits

Limiti di funzionamento Working limits	1 - 2 - 3 - 4
Temperatura aria interna / Indoor air temperature	min. 15 °C - max 30 °C
Umidità aria interna / Indoor humidity	max 63 %
Massima pressione di esercizio acqua / Max water pressure	8 Bar
Massima temperatura esercizio acqua / Max inlet water temperature	70 °C
Minima temperatura esercizio acqua / Min inlet water temperature	6 °C
Minima temperatura uscita acqua di alimentazione / Minimum temperature water outlet	11 °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:** In ambienti con elevata umidità relativa, si potrebbero formare fenomeni di condensa sull'esterno dell'apparecchio e sulla mandata dell'aria. Tali fenomeni possono danneggiare gli oggetti sottostanti ed il pavimento; per evitarli si consiglia sempre l'installazione della valvola e, con ventilatore in funzionamento, di rispettare i limiti di minima e media temperatura di alimentazione indicati (valori riferiti alla minima velocità cablate).
- **Heating:** To avoid stratification of the ambient air, it is recommended not to supply the unit with a water temperature above 65 °C.
- **Cooling:** In environments with high relative humidity, condensation may form on the outside of the unit and on the air delivery. These phenomena can damage the underlying objects and the floor; to avoid them, it is always recommended to install the valve and, with the fan in operation, to respect the minimum and medium supply temperature limits indicated (values referring to the minimum wired speed).

Dimensions

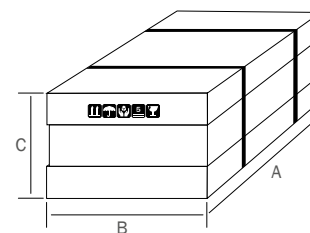
Unità - Unit - Unité - Gerät - Unidad			1	2	3	4
Lunghezza / Length / Longueur / Länge / Longitud	mm	L	930	930	1235	1235
	mm	M	850	850	1155	1155
Altezza / Height / Hauteur / Höhe / Altura	mm	H	323	323	323	323
	mm	H1	333	333	333	333
Profondità / Depth / Profondeur / Tiefe / Profundidad	mm	P	185	185	185	185

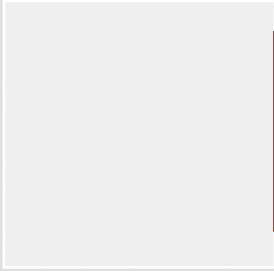


 Non-interchangeable left-hand hydraulic connections
  Non-interchangeable right-hand electrical connections

Weights and packaging

	dimensioni	peso netto	peso lordo	bancale		
	dimension	net weight	gross weight	palette		
	[mm] (AxBxC)	[kg]	[kg]	[mm] L x P	[n.] unità - units	[kg] tot.
MOD. 1	1010 x 430 x 245	11,5	13,5	1200x900	12	172
MOD. 2	1010 x 430 x 245	12	14	1200x900	12	178
MOD. 3	1315 x 430 x 245	14	16,5	1500x900	10	180
MOD. 4	1315 x 430 x 245	14,5	17	1500x900	10	185





WHITE

Frontal casing in steel
and side panels in ABS,
opaque white RAL 9016.



Vent

CUSTOM

Special colors and finishes
on specific customer's request.



ilclima





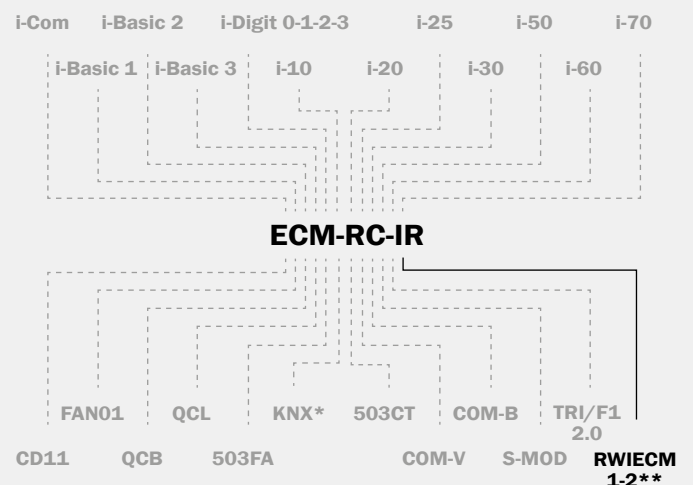
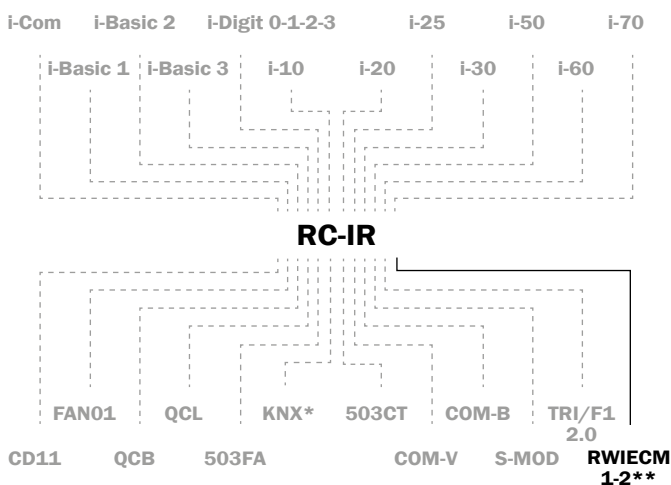
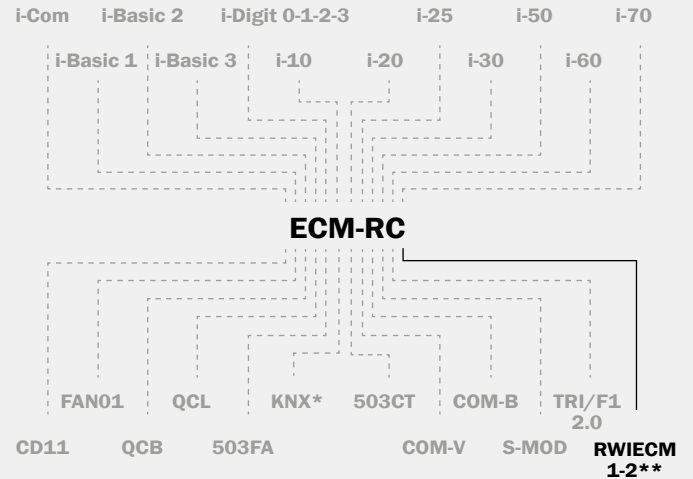
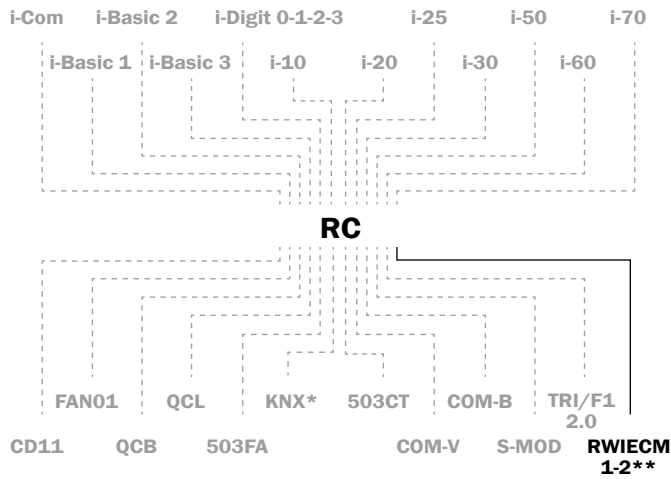
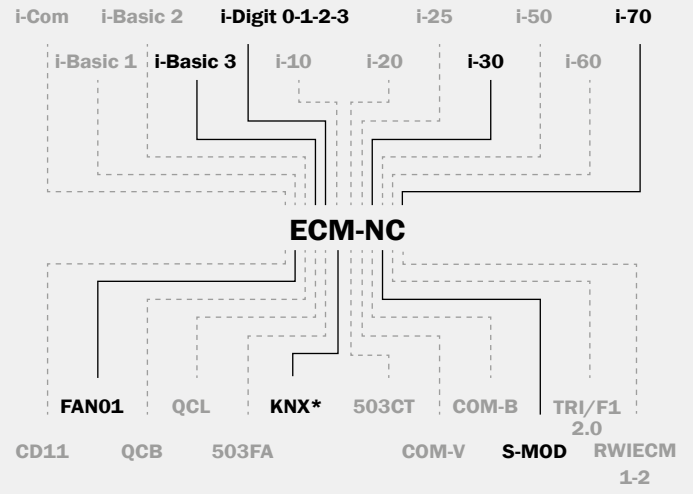
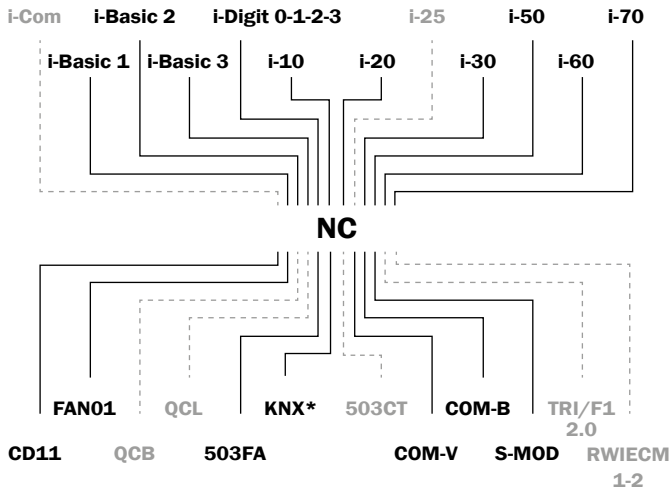
Compatibility of controls

For the complete specifications of the controls, please refer to the part relating to the controls, available from page 164.

503FA	<ul style="list-style-type: none"> - Termostato elettronico con display LCD - Electronic thermostat with LCD display - Thermostat électronique avec écran LCD - Elektronisches Thermostat mit LCD-Display - Termostato electrónico con pantalla LCD
AGKNFC101 (KNX)	<ul style="list-style-type: none"> - Regolatore per fan coil con protocollo KNX - KNX fan coil controller
CD11	<ul style="list-style-type: none"> - Comando senza regolazione di temperatura - Control without temperature control - Commande sans réglage de température - Regler für Geräte für 2-Leiter oder 4-Leiter-System ohne Temperaturregelung - Control sin regulación de temperatura
COM-B	<ul style="list-style-type: none"> - Commutatore 3 velocità con selettore rotativo BTicino - BTicino rotary selector switch - Commutateur 3 vitesses avec sélecteur rotatif BTicino - Umschalter der 3 Geschwindigkeitsstufen mittels Wahlschalter BTicino - Conmutador de 3 velocidades con selector giratorio b-Ticino
COM-V	<ul style="list-style-type: none"> - Commutatore 3 velocità con selettore a slitta Vimar - Vimar 3-speed slide selector - Commutateur 3 vitesses avec sélecteur à glissière Vimar - Umschalter der 3 Geschwindigkeitsstufen mittels Schiebeschalter Vimar - Conmutador de 3 velocidades con selector deslizante Vimar
FAN01	<ul style="list-style-type: none"> - Regolatore per fan coil configurabile con protocollo di comunicazione BACnet - Configurable fan coil controller with BACnet communication protocol - Régulateur pour ventilconvecteur configurable avec protocole de communication BACnet - Regler für Gebläsekonvektor konfigurierbar über Kommunikationsprotokoll BACnet - Controlador fancoil configurable con protocolo de comunicación BACnet
i-10	<ul style="list-style-type: none"> - Termostato elettronico analogico base (unità a 2 e 4 tubi) - Analog electronic thermostat (2 and 4 pipe units) - Thermostat électronique analogique base (unité à 2 et 4 tubes) - Analoger elektronischer Basisthermostat für Geräte mit 2-Leiter- oder 4-Leiter-System - Termostato electrónico analógico base (unidades de 2 y 4 tubos)
i-20	<ul style="list-style-type: none"> - Termostato elettronico analogico (unità a 2 tubi) - Analog electronic thermostat (2 pipe units) - Thermostat électronique analogique (unité à 2 tubes) - Analoger elektronischer Thermostat für Geräte mit 2-Leiter-System - Termostato electrónico analógico (unidad de 2 tubos)
i-25	<ul style="list-style-type: none"> - Termostato elettronico analogico (unità a 4 tubi) - Analog electronic thermostat (4 pipe units) - Thermostat électronique analogique (unité à 4 tubes) - Analoger elektronischer Thermostat für Geräte mit 4-Leiter-System - Termostato electrónico analógico (unidad de 4 tubos)
i-30	<ul style="list-style-type: none"> - Termostato elettronico programmabile con display LCD - Programmable electronic thermostat with LCD display - Thermostat électronique programmable avec écran LCD - Programmierbarer elektronischer Thermostat für Gebläsekonvektoren mit 2/4-Leiter-System, mit LCD-Display - Termostato electrónico programable con pantalla LCD
i-50	<ul style="list-style-type: none"> - Termostato elettronico programmabile con display LCD - Programmable electronic thermostat with LCD display - Thermostat électronique programmable avec écran LCD - Programmierbarer elektronischer Thermostat für Gebläsekonvektoren mit 2/4-Leiter-System, mit LCD-Display - Termostato electrónico programable con pantalla LCD
i-60	<ul style="list-style-type: none"> - Termostato elettronico touch con connessione WiFi per gestione remota - Touch fan coil thermostat with WiFi connection - Thermostat électronique tactile avec connexion WiFi pour gestion à distance - Elektronischer Touch-Thermostat mit WiFi-Anbindung für Fernüberwachung - Termostato electrónico Touch con conexión WiFi para gestión remota
i-70	<ul style="list-style-type: none"> - Termostato elettronico touch configurabile, con protocollo di comunicazione Modbus/BACnet (unità a 2 e 4 tubi) - Touch programmable electronic thermostat with Modbus/BACnet protocol communication (unit 2 and 4 pipe system) - Thermostat électronique tactile configurable, avec protocole de communication Modbus/BACnet (unité à 2 et 4 tubes) - Konfigurierbarer elektronischer Touch-Thermostat, mit Modbus/BACnet-Kommunikation mit 2/4-Leiter-System - Termostato electrónico Touch configurable, con protocolo de comunicación Modbus / Bacnet (unidades de 2 y 4 tubos)
i-Basic 1	<ul style="list-style-type: none"> - Termostato elettronico analogico base - Analog base electronic thermostat - Thermostat électronique analogique base - Analoger elektronischer Basisthermostat für Geräte mit 2-Leiter oder 4-Leiter-System - Termostato electrónico analógico base
i-Basic 2	<ul style="list-style-type: none"> - Termostato elettronico analogico - Analog electronic thermostat - Thermostat électronique analogique - Analoger elektronischer Thermostat für Geräte mit 2-Leiter oder 4-Leiter-System - Termostato electrónico analógico

i-Basic 3	<ul style="list-style-type: none"> - Termostato elettronico analogico con programmazione semplificata a DIP-SWITCH - Analog electronic thermostat with simplified DIP-SWITCH programming - Thermostat électronique analogique avec programmation simplifiée à DIP-SWITCH - Analoger elektronischer Thermostat mit vereinfachter DIP-Schalter Programmierung - Termostato electrónico analógico con programación simplificada a DIP-SWITCH
i-Com	<ul style="list-style-type: none"> - Comando senza regolazione di temperatura - Base switch without temperature control - Commande sans réglage de température - Regler für Geräte für 2-Leiter oder 4-Leiter-System ohne Temperaturregelung - Control sin regulación de temperatura
i-Digit 0-1-2-3	<ul style="list-style-type: none"> - Termostato elettronico programmabile con display LCD - Programmable electronic thermostat with LCD display - Thermostat électronique programmable avec écran LCD - Elektronischer Thermostat für Gebläsekonvektoren mit 2-Leiter oder 4-Leiter-System, mit LCD-Display - Termostato electrónico programable con pantalla LCD
IR-C	<ul style="list-style-type: none"> - Telecomando a raggi infrarossi (per cassette e sistemi TRI/F1 2.0 + S-MOD) - Infrared remote control (for cassette and TRI/F1 2.0 + S-MOD systems) - Télécommande à infrarouges (pour cassette et TRI/F1 2.0 + S-MOD systèmes) - Infrarot-Fernbedienung (für Kassettengeräte und TRI/F1 2.0 + S-MOD Systeme) - Control remoto IR (para fancoil de tipo cassette e sistemas TRI/F1 2.0 + S-MOD)
IR-T	<ul style="list-style-type: none"> - Telecomando a raggi infrarossi (per unità a parete) - Infrared remote control (for wall unit) - Télécommande à infrarouges (pour unité murale) - Infrarot-Fernbedienung für wandmontierte Geräte - Control remoto IR (para unidad de pared)
QCB	<ul style="list-style-type: none"> - Quadro comando base - Base control panel - Panneau de contrôle base - Basisbediengerät - Panel de control base
QCL	<ul style="list-style-type: none"> - Quadro comando base in lamiera - Sheet base control panel - Panneau de contrôle base en tôle - Basisbediengerät aus Metall - Panel de control base en chapa
QEL	<ul style="list-style-type: none"> - Quadro comando base in lamiera - Sheet base control panel - Panneau de contrôle base en tôle - Basisbediengerät aus Metall - Panel de control base en chapa
QTE	<ul style="list-style-type: none"> - Quadro comando base con termostato ambiente elettronico - Base control panel with electronic room thermostat - Panneau de contrôle base avec thermostat ambient électronique - Basisbediengerät mit elektronischem Raumthermostat - Panel de control base con termostato ambiente electrónico
QTM	<ul style="list-style-type: none"> - Quadro comando base con termostato ambiente elettromeccanico (a bulbo) - Base control panel with room electromechanical temperature bulb thermostat - Panneau de contrôle base avec thermostat ambient électromécanique (à bulbe) - Basischalttafel mit elektromechanischem Raumtempertur-Thermostat (mit Stabfühler) - Panel de control base con termostato ambiente electromecánico (a bulbo)
RWIECM 1-2	<ul style="list-style-type: none"> - Interfaccia utente a parete - Wall user interface - Interface utilisateur mural - Wandmontiertes Bediengerät - Interfaz de usuario de pared
S-MOD	<ul style="list-style-type: none"> - Sistema di supervisione - Supervision system - Système de supervision - Überwachungssystem - Sistema de supervisión
TRI/F1 2.0	<ul style="list-style-type: none"> - Controllo con telecomando IR o interfaccia a muro con protocollo di comunicazione Modbus - Infrared remote controller or wall controller with Modbus communication protocol - Contrôle avec télécommande IR ou interface mural avec protocole de communication Modbus - Steuerung mittels Infrarot-Fernbedienung oder wandmontiertes Bedienfeld mit Modbus-Kommunikationsprotokoll - Control con mando IR o interfaz de pared con protocolo de comunicación Modbus

Compatibility of controls



— Compatible
Compatible
Compatible
Kompatibel
Compatible

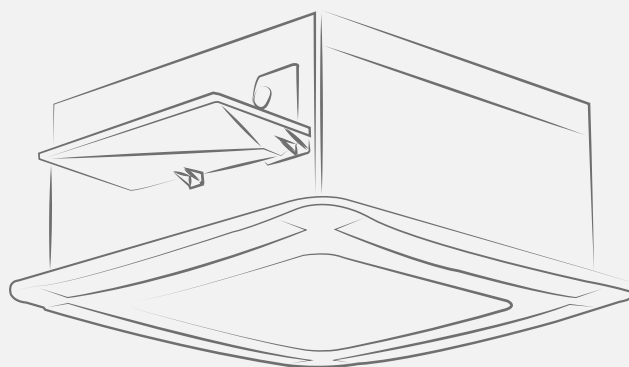
- - - Non compatible
Not compatible
Non compatible
Nicht kompatibel
NO compatible

* KNX = AGKNFC101

** Non incluso
Not included
Non inclus
Nicht enthalten
No incluido

LIGHT LIGHT-ECM


Cassette fan coil unit



A GROUP S.p.A (Trademark VENTILCLIMA) participates in the ECP programme for FCU. Check ongoing validity of certificate: www.eurovent-certification.com

Pure innovation and performance

 **1.6 ÷ 10.9** kW
cooling

 **1.6 ÷ 11.3** kW
heating

 **50%**
energy saving up to 50%

 **225 - 1536** m³/h
air flow





LIGHT | LIGHT ECM





Minimal design:

characterized by shapes and geometries appropriately designed to guarantee a perfect combination of high performance, low sound emissions and unique environmental comfort thanks to the true Coanda effect.



Maximum level of silence:

the series is at the top of the range also on the subject of low noise emissions, which ensure the user that particular condition of psychophysical well-being made possible thanks to the meticulous research and development process.



Construction features:

frame made of Z200 hot-dip galvanized steel sheet 1 ÷ 1.5 mm thick, externally finished with anti-condensation barrier and internally insulated with closed-cell insulation Euroclass B-s2, d0 (EN13501-1) 10mm thick. Main condensate drain basin made of high density EPS, auxiliary basin in molded ABS.



Adjustable louvers:

in order to guarantee perfect climate comfort control both in cooling and heating mode, the front panel in the ABS version is available in three different configurations, including the versions with motorized louvers or manual louvers.



Fan section:

consisting of a radial fan appropriately developed to optimize performance and reduce turbulence, to the benefit of efficiency and low noise. Electric motor suspended on asynchronous single-phase vibration dampers ~230V / 1ph / 50Hz with overload protection, 6 rotation speeds, 3 of which are connected.

The ECM version is instead equipped with an innovative Brushless motor, which guarantees precise and modular control of the air flow, limiting the energy supply to the actual workload required, without any waste.



Condensate evacuation pump:

centrifugal type, with a useful head of 650 mm complete with non-return valve and managed by a dedicated electronic board to which a float system is combined for the control of the condensate level and alarm signaling.



Filter:

renewable filter with galvanized steel frame and polypropylene filter fabric with efficiency class G1 * / EU1 **. Alternatively, a wide range of filters with greater efficiencies are available, including G3 * / EU3 ** and G4 * / EU4 ** or the innovative electronic filter that allows complete air purification and at the same time ensures high efficiencies thanks to the minimum pressure losses. (* according to EN779 / ** according to Eurovent)



Integrated valves and resistance:

available as an accessory also valves and electric resistances that can be integrated directly inside the unit, avoiding unnecessary heat loss, significant reduction in installation times and greater operating reliability.



Easy installation and maintenance:

remarkable ease of installation and maintenance thanks to the *EasyWaySystem* which allows quick access to all the main components that require ordinary or extraordinary interventions, without having to remove the front intake panel.

Innovation and performance, at the top of the range

Innovative cassette fan coil unit characterized by a modern and minimalist design and a perfect combination of high performance, low noise emissions and a marked ease of installation and maintenance thanks to the *EasyWaySystem*.

Available in 8 sizes for 2-pipe system and in 10 sizes for 4-pipe system, also available with 2 or 3-way valves and armored electric heater (1250 ÷ 2500W) that can be integrated directly into the unit, for the total benefit of the greater operational efficiency and safety and a clear reduction in installation times.

The wide range of configurations, controls and accessories supplied ensure the right solution for every installation need. All units can be supplied in the configuration with motherboard (RC) or without motherboard (NC) and are available in the following versions:

Versions	
LIGHT	with asynchronous motor
LIGHT-ECM	with ECM motor
LIGHT-E	with asynchronous motor and integrated electric heater
LIGHT-ECM-E	with ECM motor and integrated electric heater



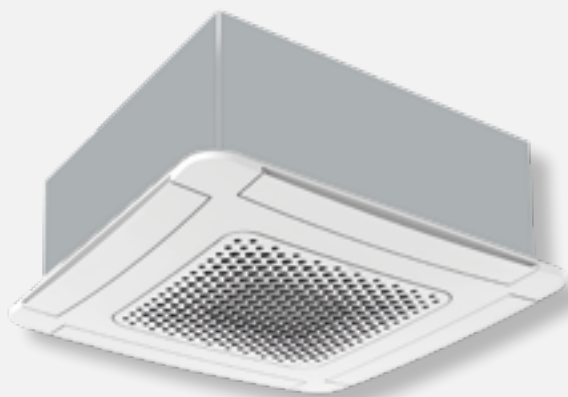
The picture refers to the unit configured with integrated valves (optional)

☰ Front panel versions

600 x 600

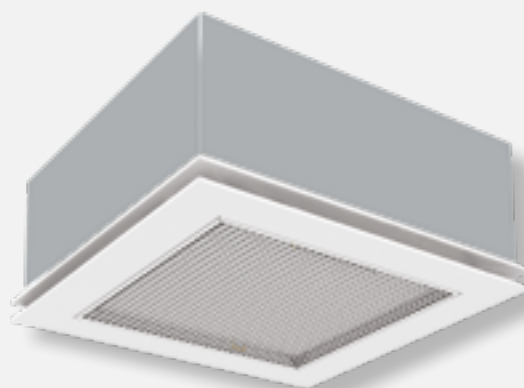
ABS (white RAL 9016)

- NC** manual louvers
- RC-M** receiver + manual louvers
- RC-A** receiver + motorized louvers



METAL (white RAL 9016)

- NC** without louvers
- RC** receiver, without louvers



900 x 900

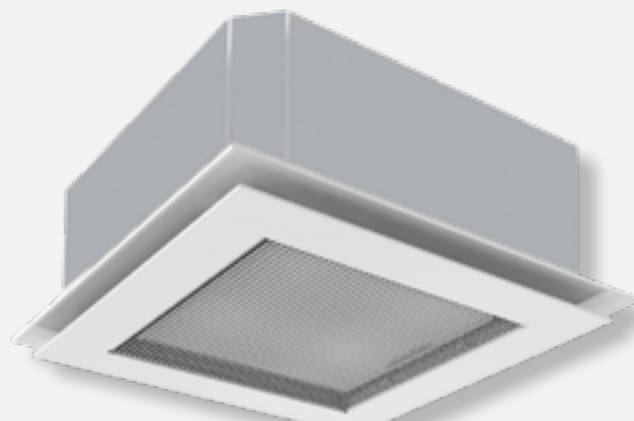
ABS (white RAL 9016)

- NC** manual louvers
- RC-M** receiver + manual louvers
- RC-A** receiver + motorized louvers



METAL (white RAL 9016)

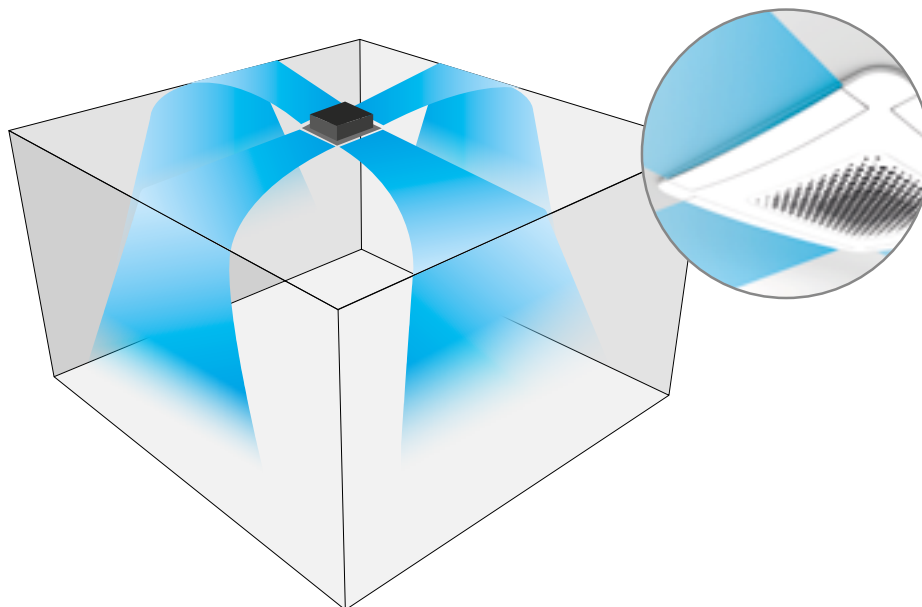
- NC** without louvers
- RC** receiver, without louvers





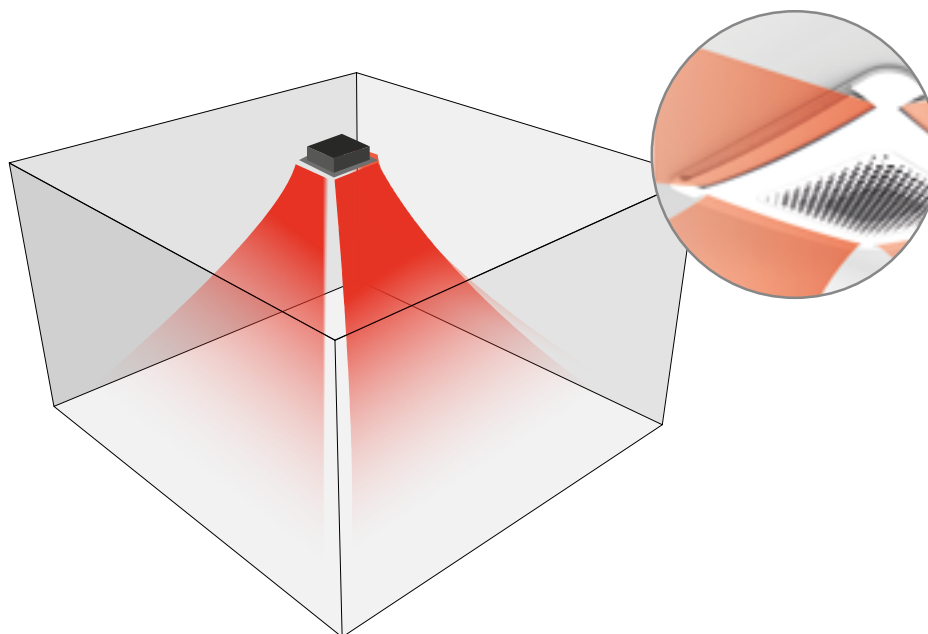
COANDA EFFECT







The position of the lateral flaps, available in the ABS panel, allows maximum exploitation of the Coanda effect in summer modality, offering ideal comfort without any annoying typical cold air flow. Thanks to this detail the cold air tends to flow towards the ceiling distributing itself in a regular, gradual way inside the room, guaranteeing ideal climatic comfort without the unpleasant thermal phenomena caused by direct cold air.



ANTI-STRATIFICATION EFFECT

In heating modality, the flaps are positioned automatically (automatically for the RC-A version, manually for the RC-M / NC versions) with an opening of 30°, allowing the warm air to create a downward flow, ensuring the homogenous distribution of the room temperature and avoiding the problems linked to air stratification.



				600x600					900x900				
2 tubi - pipes - tubes Leiter - tubos				61	62	63	64	65	71	72	73		
 <p>7/12 °C</p> <p>27 °C d.b. 19 °C w.b.</p> 	Potenza frigorifera totale Total cooling capacity Puissance frigorifique totale Kälteleistung gesamt Potencia frigorífica total	(E)	W	3	2223	2667	4247	4975	5381	6128	8520	10865	
			W	2	1835	2433	3047	3648	4655	4950	5950	8790	
			W	1	1556	1944	2144	2697	3967	4152	4810	5336	
	Potenza frigorifera sensibile Sensible cooling capacity Puissance frigorifique sensible Sensible Kälteleistung Potencia frigorífica total sensible	(E)	W	3	1843	2027	3107	3695	3991	4558	6400	7965	
			W	2	1485	1813	2177	2628	3355	3580	4339	6210	
			W	1	1236	1424	1494	1907	2797	2982	3457	3716	
	Portata acqua Water flow Débit d'eau Wassermenge Flujo de agua	(E)	l/h	3	390	465	739	867	939	1064	1478	1888	
			l/h	2	321	424	530	635	812	858	1030	1523	
			l/h	1	271	338	372	468	691	719	832	923	
	Perdite di carico lato acqua Water pressure drop Pertes charge côté eau Wasserseitiger Druckverlust Caídas de presión lado agua	(E)	kPa	3	20,0	16,0	24,0	24,0	30,0	31,5	33,5	53,0	
			kPa	2	14,0	14,0	18,0	18,0	24,0	21,5	13,5	36,0	
			kPa	1	11,0	10,0	11,0	16,0	18,0	16,5	8,5	12,5	
 <p>45/40 °C</p> <p>20 °C</p> 	Potenza termica Heating capacity Puissance thermique Heizleistung Energía térmica	(E)	W	3	2340	2620	4080	4910	5420	6400	8610	11280	
			W	2	1920	2370	2930	3440	4930	5000	5970	8660	
			W	1	1590	1910	2090	2580	4090	4210	4590	5030	
	Portata acqua Water flow Débit d'eau Wassermenge Flujo de agua	(E)	l/h	3	408	456	711	855	943	1115	1500	1964	
			l/h	2	335	413	510	600	860	871	1039	1508	
			l/h	1	276	333	364	449	712	734	800	876	
	Perdite di carico lato acqua Water pressure drop Pertes charge côté eau Wasserseitiger Druckverlust Caídas de presión lado agua	(E)	kPa	3	20,9	15,5	18,5	22,8	29,6	33,2	25,0	49,9	
			kPa	2	14,2	12,5	16,2	18,0	25,7	22,9	10,8	30,7	
			kPa	1	10,5	8,9	9,7	15,3	19,2	15,9	7,9	10,1	
	 <p>50 °C</p> <p>20 °C</p> 	Potenza termica Heating capacity Puissance thermique Heizleistung Energía térmica	(E)	W	3	2800	3150	4910	5900	6500	7650	9367	13500
				W	2	2300	2850	3522	4150	5900	6000	6482	10400
				W	1	1900	2300	2510	3100	4900	5050	5002	6050
Portata acqua Water flow Débit d'eau Wassermenge Flujo de agua		(E)	l/h	3	390	465	739	867	939	1064	1478	1888	
			l/h	2	321	424	530	635	812	858	1030	1523	
			l/h	1	271	338	372	468	691	719	832	923	
Perdite di carico lato acqua Water pressure drop Pertes charge côté eau Wasserseitiger Druckverlust Caídas de presión lado agua		(E)	kPa	3	19,0	16,0	19,0	23,1	29,0	22,0	29,0	46,0	
			kPa	2	13,0	13,0	17,0	19,8	23,0	16,0	12,5	31,0	
			kPa	1	10,0	9,0	10,0	16,5	18,0	11,0	10,0	11,0	
Livello di potenza sonora Sound power level Niveau de puissance sonore Schall-Leistungspegel Nivel de potencia acústica		(E)	dB(A)	3	46	44	52	60	62	47	53	59	
			dB(A)	2	39	41	44	49	59	39	40	54	
			dB(A)	1	33	34	34	39	56	32	34	39	
Livello di pressione sonora Sound pressure level Niveau de pression sonore Schall-Druckpegel Nivel de presión sonora	(E)	dB(A)	3	37	35	43	51	53	38	44	50		
		dB(A)	2	30	32	35	40	50	30	31	45		
		dB(A)	1	24	25	25	30	47	23	25	30		
Portata aria Air flow Débit d'air Luftstrom Flujo de aire	(E)	m³/h	3	367	398	550	660	760	1023	1270	1536		
		m³/h	2	295	355	398	468	660	763	858	1175		
		m³/h	1	225	269	269	328	550	623	662	669		

- **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 than 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 Schalleistungspegels 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 (E) = Eurovent

				600x600						900x900				
4 tubi - pipes - tubes Leiter - tubos				81	82	83	83C	84	84C	91	92	93	94	
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)	W 3	2303	2707	3337	3827	3825	4395	6125	7100	8665	9965	
			W 2	1905	2373	2507	2957	3048	3408	4847	5139	6560	7510	
			W 1	1606	1864	1884	1974	2367	2627	4011	4257	4456	5056	
	Potenza frigorifera sensibile Sensible cooling capacity Puissance frigorifique sensible Sensible Kälteleistung Potencia frigorífica total sensible	(E)	W 3	1873	1977	2547	2857	2975	3345	4505	5340	6635	7515	
			W 2	1505	1713	1867	2157	2308	2518	3497	3749	4880	5520	
			W 1	1226	1344	1364	1404	1747	1897	2851	3047	3186	3596	
	Portata acqua Water flow Débit d'eau Wassermenge Flujo de agua	(E)	l/h 3	403	472	584	668	669	767	1064	1236	1511	1734	
			l/h 2	333	414	438	515	532	594	841	893	1142	1304	
			l/h 1	280	324	328	343	412	456	695	738	772	876	
	Perdite di carico lato acqua Water pressure drop Pertes charge côté eau Wasserseitiger Druckverlust Caídas de presión lado agua	(E)	kPa 3	18,0	14,0	17,0	32,3	21,0	28,0	20,5	29,6	38,0	34,0	
			kPa 2	15,0	12,0	14,0	27,9	17,0	22,0	13,5	18,0	24,5	21,0	
			kPa 1	10,0	10,0	10,0	22,0	12,0	17,0	9,5	11,5	14,0	14,0	
65/55 °C 20 °C	Potenza termica Heating capacity Puissance thermique Heizleistung Energía térmica	(E)	W 3	2690	3070	3900	2890	4380	3250	7940	9270	11030	8420	
			W 2	2300	2680	3070	2340	3510	2610	6180	7060	8380	6500	
			W 1	1780	2150	2150	1680	2760	2100	5130	5570	6010	4400	
	Portata acqua Water flow Débit d'eau Wassermenge Flujo de agua	(E)	l/h 3	236	269	342	254	384	285	697	812	967	739	
			l/h 2	201	235	269	206	307	229	542	619	735	570	
			l/h 1	156	187	189	147	242	184	449	488	527	386	
	Perdite di carico lato acqua Water pressure drop Pertes charge côté eau Wasserseitiger Druckverlust Caídas de presión lado agua	(E)	kPa 3	15,7	20,4	42,7	18,1	41,0	21,2	19,5	27,2	35,2	17,8	
			kPa 2	14,6	16,5	35,3	14,9	35,4	18,8	13,2	16,9	23,9	12,1	
			kPa 1	11,3	12,2	21,1	11,0	22,5	13,3	9,1	11,6	13,2	6,4	
	70/60 °C 20 °C	Potenza termica Heating capacity Puissance thermique Heizleistung Energía térmica	(E)	W 3	3050	3500	4450	3300	5000	3710	9000	10500	12500	9600
				W 2	2600	3050	3500	2670	4000	2980	7000	8000	9500	7400
				W 1	2010	2450	2450	1910	3150	2390	5800	6300	6800	5000
Portata acqua Water flow Débit d'eau Wassermenge Flujo de agua		(E)	l/h 3	268	307	391	290	439	326	791	922	1098	843	
			l/h 2	228	268	307	235	351	262	615	703	835	650	
			l/h 1	177	215	215	168	277	210	510	554	598	439	
Perdite di carico lato acqua Water pressure drop Pertes charge côté eau Wasserseitiger Druckverlust Caídas de presión lado agua		(E)	kPa 3	15,0	15,0	53,4	23,0	52,6	27,0	23,5	33,0	42,5	22,0	
			kPa 2	14,0	12,0	44,5	19,0	45,6	24,0	16,0	20,5	29,0	15,0	
			kPa 1	11,0	9,0	26,7	14,0	28,9	17,0	11,0	14,0	16,0	8,0	
Livello di potenza sonora Sound power level Niveau de puissance sonore Schall-Leistungspegel Nivel de potencia acústica		(E)	dB(A) 3	46	47	52	52	58	58	51	53	59	59	
			dB(A) 2	39	41	44	44	49	51	39	40	52	49	
			dB(A) 1	33	37	34	37	39	44	37	34	38	35	
Livello di pressione sonora Sound pressure level Niveau de pression sonore Schall-Druckpegel Nivel de presión sonora	(E)	dB(A) 3	37	38	43	43	49	49	42	44	50	50		
		dB(A) 2	30	32	35	35	40	42	30	31	43	40		
		dB(A) 1	24	28	25	28	30	35	28	25	29	26		
Portata aria Air flow Débit d'air Luftstrom Flujo de aire	(E)	m³/h 3	367	398	550	550	660	660	1023	1270	1536	1536		
		m³/h 2	295	355	398	398	468	468	763	858	1175	1175		
		m³/h 1	224	269	269	269	328	328	623	662	669	669		

- **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 than 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 Schalleistungspiegels 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 (E) = Eurovent

LIGHT | LIGHT ECM

			600x600										900x900							
Motore asincrono - Asynchronous motor Moteur asynchrone - Asynchronmotor - Motor asíncrono			61	62	63	64	65	81	82	83	83C	84	84C	71	72	73	91	92	93	94
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	(E)	W 3	47	43	63	75	89	47	43	63	63	75	75	72	100	135	75	100	135	135
		W 2	35	37	43	52	75	35	37	43	43	52	52	50	61	90	53	61	90	90
		W 1	24	26	26	33	63	24	26	26	26	33	33	38	43	44	39	43	44	44
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	3	0,22	0,19	0,28	0,33	0,39	0,22	0,19	0,28	0,28	0,33	0,33	0,73	0,61	0,53	0,75	0,61	0,51	0,51
		2	0,16	0,16	0,19	0,23	0,33	0,16	0,16	0,19	0,19	0,23	0,23	0,56	0,46	0,43	0,57	0,47	0,44	0,44
		1	0,11	0,11	0,11	0,15	0,28	0,11	0,11	0,11	0,11	0,15	0,15	0,46	0,39	0,37	0,43	0,40	0,37	0,37
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 (E) = Eurovent

			600x600										900x900							
Motore ECM - ECM motor Moteur ECM - ECM-Motor - Motor ECM			61	62	63	64	65	81	82	83	83C	84	84C	71	72	73	91	92	93	94
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	(E)	W 3	14	12	25	52	69	14	12	25	29	38	52	55	62	151	31	43	118	118
		W 2	9	10	11	22	43	9	10	11	14	16	22	26	19	52	24	16	56	56
		W 1	7	7	7	10	27	7	7	7	7	9	11	22	14	19	22	14	21	21
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	3	0,16	0,14	0,29	0,48	0,62	0,16	0,16	0,28	0,31	0,36	0,42	0,47	0,52	0,78	0,25	0,39	0,81	0,81
		2	0,09	0,11	0,15	0,26	0,41	0,09	0,11	0,14	0,18	0,21	0,25	0,26	0,20	0,42	0,14	0,16	0,39	0,39
		1	0,07	0,07	0,07	0,13	0,30	0,07	0,08	0,07	0,07	0,10	0,13	0,19	0,13	0,13	0,10	0,11	0,22	0,22
Tensione di controllo velocità (Vdc) Speed control voltage (Vdc) Tension de contrôle de vitesse (Vcc) Drehzahlregelspannung (Vcc) Voltaje de control de velocidad (Vcc)	Vdc	3	9,0	7,6	8,6	9,5	9,5	9,0	8,9	8,3	8,3	9,6	9,6	7,7	9,6	8,4	8,9	8,0	8,4	8,1
		2	4,4	5,6	4,3	5,1	5,5	4,4	5,9	4,0	4,0	5,4	5,4	4,8	4,8	4,8	5,3	3,9	4,4	4,4
		1	1,5	2,0	1,2	1,8	1,6	1,5	1,6	1,2	1,2	2,0	2,0	3,1	3,0	1,7	3,2	2,4	1,3	1,2
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 (E) = Eurovent

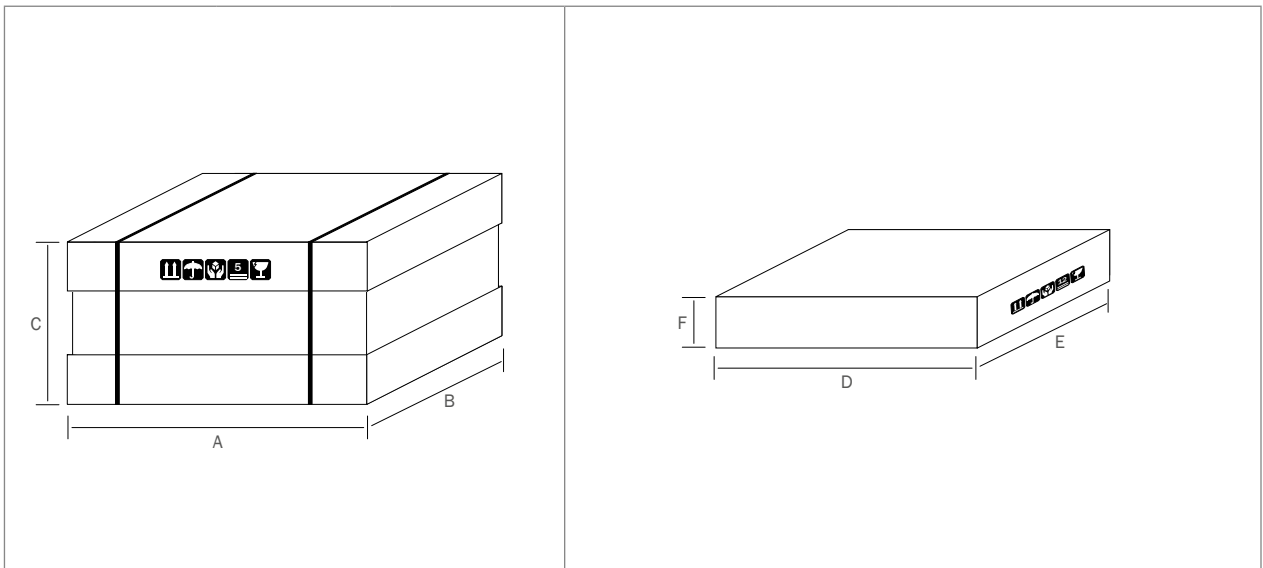
LIGHT | LIGHT ECM

Electric heater

			600x600										900x900							
			61	62	63	64	65	81	82	83	83C	84	84C	71	72	73	91	92	93	94
Potenza elettrica resa Heating power output Puissance électrique Heizleistung geliefert Energía eléctrica entregada	W		1250	1250	2500	2500	2500	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.
Tensione di alimentazione Heating power output Puissance électrique Heizleistung geliefert Energía eléctrica entregada	V		230	230	230	230	230	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.	n.d.

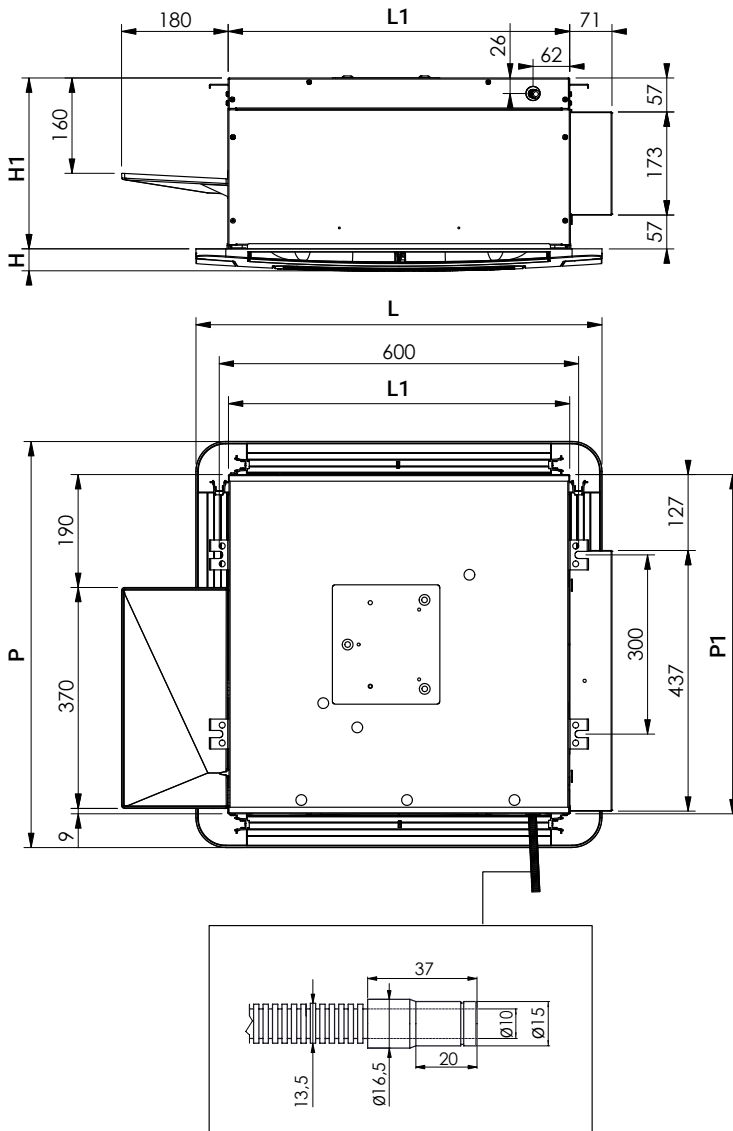
n.d. = Non disponibile / Unavailable / Non disponible / Nicht verfügbar / Indisponible

	UNITÀ UNIT			PANNELLO ABS ABS PANEL			PANNELLO METALLO METAL PANEL	
	dimensioni dimension	peso netto net weight	peso lordo gross weight	dimensioni dimension	peso netto net weight	peso lordo gross weight	peso netto net weight	peso lordo gross weight
	[mm] (AxBxC)	[kg]	[kg]	[mm] (DxExF)	[kg]	[kg]	[kg]	[kg]
MOD. 61	790 x 760 x 335	20	22	730 x 730 x 115	3	4	7,5	9
MOD. 62	790 x 760 x 335	21	23	730 x 730 x 115	3	4	7,5	9
MOD. 63	790 x 760 x 335	23	25	730 x 730 x 115	3	4	7,5	9
MOD. 64	790 x 760 x 335	24	26	730 x 730 x 115	3	4	7,5	9
MOD. 65	790 x 760 x 335	24	26	730 x 730 x 115	3	4	7,5	9
MOD. 81	790 x 760 x 335	23	25	730 x 730 x 115	3	4	7,5	9
MOD. 82	790 x 760 x 335	24	26	730 x 730 x 115	3	4	7,5	9
MOD. 83	790 x 760 x 335	24	26	730 x 730 x 115	3	4	7,5	9
MOD. 83C	790 x 760 x 335	24	26	730 x 730 x 115	3	4	7,5	9
MOD. 84	790 x 760 x 335	24	26	730 x 730 x 115	3	4	7,5	9
MOD. 84C	790 x 760 x 335	24	26	730 x 730 x 115	3	4	7,5	9
MOD. 71	1050 x 1005 x 380	40	43	965 x 970 x 115	5,5	7,5	13	15
MOD. 72	1050 x 1005 x 380	45	48	965 x 970 x 115	5,5	7,5	13	15
MOD. 73	1050 x 1005 x 380	45	48	965 x 970 x 115	5,5	7,5	13	15
MOD. 91	1050 x 1005 x 380	41	44	965 x 970 x 115	5,5	7,5	13	15
MOD. 92	1050 x 1005 x 380	46	49	965 x 970 x 115	5,5	7,5	13	15
MOD. 93	1050 x 1005 x 380	46	49	965 x 970 x 115	5,5	7,5	13	15
MOD. 94	1050 x 1005 x 380	46	49	965 x 970 x 115	5,5	7,5	13	15

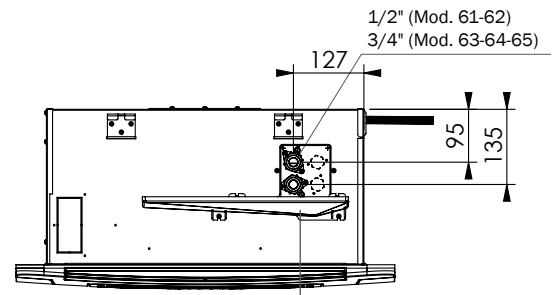


Dimensions (600x600)

			600x600					600x600					
			2 tubi - pipes - tubes Leiter - tubos					4 tubi - pipes - tubes Leiter - tubos					
Unità / Unit / Unité / Gerät / Unidad			61	62	63	64	65	81	82	83	83C	84	84C
Lunghezza / Length / Longueur / Länge / Longitud	L1	mm	572	572	572	572	572	572	572	572	572	572	572
Altezza / Height / Hauteur / Höhe / Altura	H1	mm	285	285	285	285	285	285	285	285	285	285	285
Profondità / Depth / Profondeur / Tiefe / Profundidad	P1	mm	575	575	575	575	575	575	575	575	575	575	575
Pannello / Panel / Pannneau / Paneel / Panel			61	62	63	64	65	81	82	83	83C	84	84C
Lunghezza / Length / Longueur / Länge / Longitud	L	mm	680	680	680	680	680	680	680	680	680	680	680
Altezza / Height / Hauteur / Höhe / Altura	H	mm	40	40	40	40	40	40	40	40	40	40	40
Profondità / Depth / Profondeur / Tiefe / Profundidad	P	mm	680	680	680	680	680	680	680	680	680	680	680

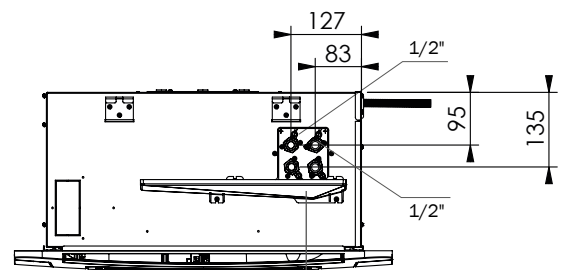


Impianto a 2 tubi
2 pipe system
Installation à 2 tubes
2-Leiter-System
Sistema de 2 tubos



Bacinella ausiliaria
Auxiliary drain pan
Bac recueillant l'eau de condensation
Zusätzlichen Kondensatwanne
Bandeja auxiliar

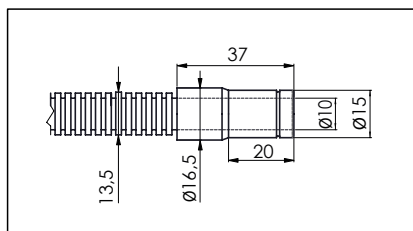
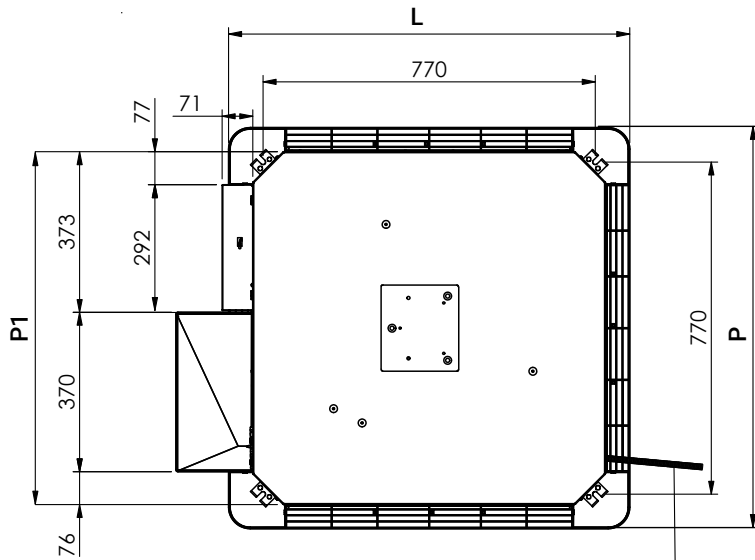
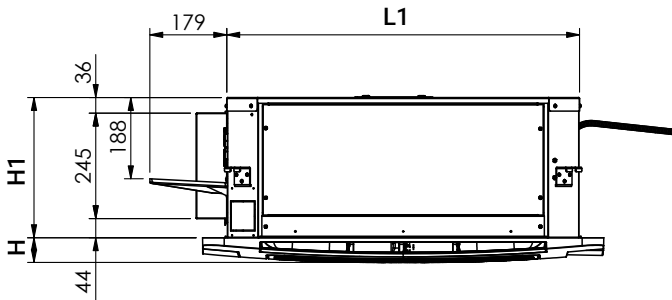
Impianto a 4 tubi
4 pipe system
Installation à 4 tubes
4-Leiter-System
Sistema de 4 tubos



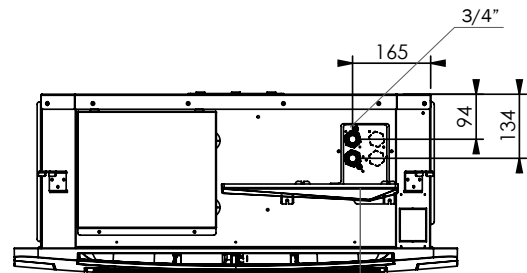
Bacinella ausiliaria
Auxiliary drain pan
Bac recueillant l'eau de condensation
Zusätzlichen Kondensatwanne
Bandeja auxiliar

Dimensions (900x900)

			900x900			900x900			
			2 tubi - pipes - tubes Leiter - tubos						
Unità / Unit / Unité / Gerät / Unidad			71	72	73	91	92	93	94
Lunghezza / Length / Longueur / Länge / Longitud	L1	mm	818	818	818	818	818	818	818
Altezza / Height / Hauteur / Höhe / Altura	H1	mm	326	326	326	326	326	326	326
Profondità / Depth / Profondeur / Tiefe / Profundidad	P1	mm	818	818	818	818	818	818	818
Pannello / Panel / Panneau / Paneel / Panel			71	72	73	91	92	93	94
Lunghezza / Length / Longueur / Länge / Longitud	L	mm	930	930	930	930	930	930	930
Altezza / Height / Hauteur / Höhe / Altura	H	mm	57	57	57	57	57	57	57
Profondità / Depth / Profondeur / Tiefe / Profundidad	P	mm	930	930	930	930	930	930	930

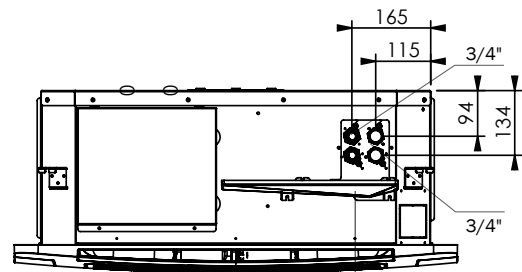


Impianto a 2 tubi
2 pipe system
Installation à 2 tubes
2-Leiter-System
Sistema de 2 tubos



Bacinella ausiliaria
Auxiliary drain pan
Bac recueillant l'eau de condensation
Zusätzlichen Kondensatwanne
Bandeja auxiliar

Impianto a 4 tubi
4 pipe system
Installation à 4 tubes
4-Leiter-System
Sistema de 4 tubos



Bacinella ausiliaria
Auxiliary drain pan
Bac recueillant l'eau de condensation
Zusätzlichen Kondensatwanne
Bandeja auxiliar

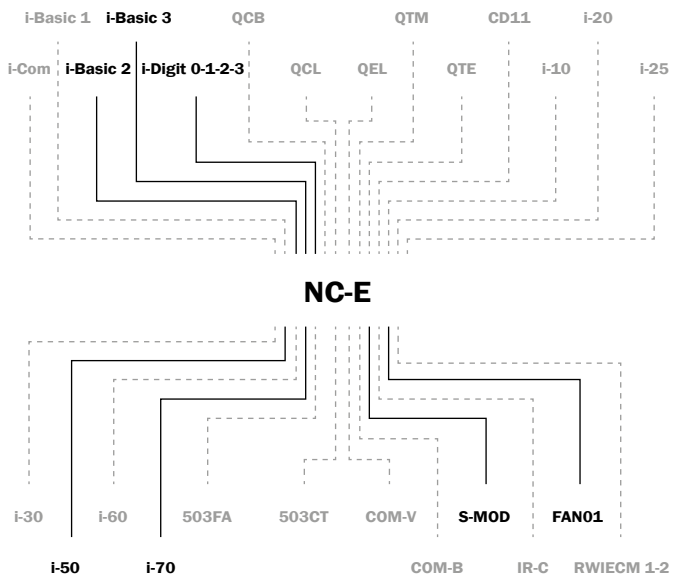
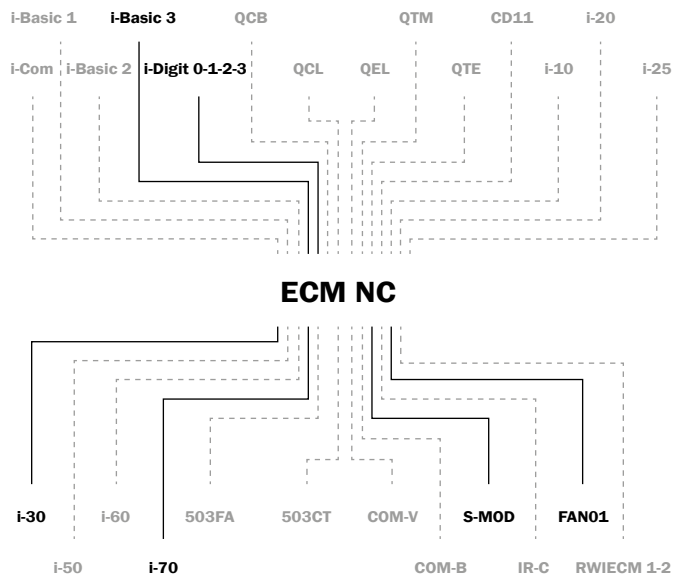
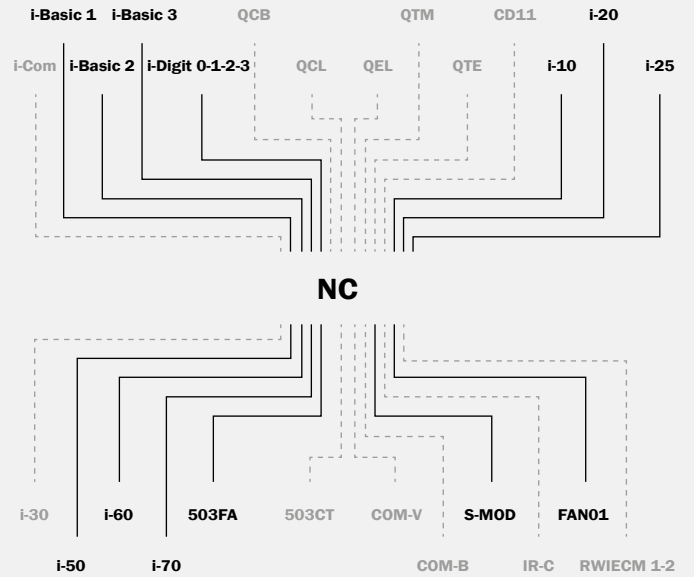
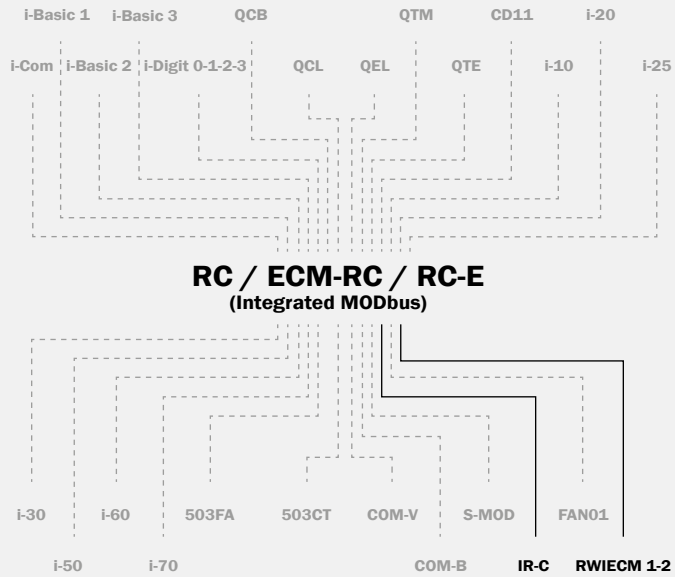
Compatibility of controls

For the complete specifications of the controls, please refer to the part relating to the controls, available from page 164.

503FA	<ul style="list-style-type: none"> - Termostato elettronico con display LCD - Electronic thermostat with LCD display - Thermostat électronique avec écran LCD - Elektronisches Thermostat mit LCD-Display - Termostato electrónico con pantalla LCD
AGKNFC101 (KNX)	<ul style="list-style-type: none"> - Regolatore per fan coil con protocollo KNX - KNX fan coil controller
CD11	<ul style="list-style-type: none"> - Comando senza regolazione di temperatura - Control without temperature control - Commande sans réglage de température - Steuerung ohne Temperaturregelung - Control sin regulación de temperatura
COM-B	<ul style="list-style-type: none"> - Commutatore 3 velocità con selettore rotativo BTicino - BTicino rotary selector switch - Commutateur 3 vitesses avec sélecteur rotatif BTicino - Umschalter der 3 Geschwindigkeitsstufen mittels Wahlschalter BTicino - Conmutador de 3 velocidades con selector giratorio b-Ticino
COM-V	<ul style="list-style-type: none"> - Commutatore 3 velocità con selettore a slitta Vimar - Vimar 3-speed slide selector - Commutateur 3 vitesses avec sélecteur à glissière Vimar - Umschalter der 3 Geschwindigkeitsstufen mittels Schiebeshalter Vimar - Conmutador de 3 velocidades con selector deslizante Vimar
FAN01	<ul style="list-style-type: none"> - Regolatore per fan coil configurabile con protocollo di comunicazione BACnet - Configurable fan coil controller with BACnet communication protocol - Régulateur pour ventilconvecteur configurable avec protocole de communication BACnet - Regler für Gebläsekonvektor konfigurierbar über Kommunikationsprotokoll BACnet - Controlador fancoil configurable con protocolo de comunicación BACnet
i-10	<ul style="list-style-type: none"> - Termostato elettronico analogico base (unità a 2 e 4 tubi) - Analog electronic thermostat (2 and 4 pipe units) - Thermostat électronique analogique base (unité à 2 et 4 tubes) - Analoger elektronischer Basisthermostat für Geräte mit 2-Leiter- oder 4-Leiter-System - Termostato electrónico analógico base (unidades de 2 y 4 tubos)
i-20	<ul style="list-style-type: none"> - Termostato elettronico analogico (unità a 2 tubi) - Analog electronic thermostat (2 pipe units) - Thermostat électronique analogique (unité à 2 tubes) - Analoger elektronischer Thermostat für Geräte mit 2-Leiter-System - Termostato electrónico analógico (unidad de 2 tubos)
i-25	<ul style="list-style-type: none"> - Termostato elettronico analogico (unità a 4 tubi) - Analog electronic thermostat (4 pipe units) - Thermostat électronique analogique (unité à 4 tubes) - Analoger elektronischer Thermostat für Geräte mit 4-Leiter-System - Termostato electrónico analógico (unidad de 4 tubos)
i-30	<ul style="list-style-type: none"> - Termostato elettronico programmabile con display LCD - Programmable electronic thermostat with LCD display - Thermostat électronique programmable avec écran LCD - Programmierbarer elektronischer Thermostat für Gebläsekonvektoren mit 2/4-Leiter-System, mit LCD-Display - Termostato electrónico programable con pantalla LCD
i-50	<ul style="list-style-type: none"> - Termostato elettronico programmabile con display LCD - Programmable electronic thermostat with LCD display - Thermostat électronique programmable avec écran LCD - Programmierbarer elektronischer Thermostat für Gebläsekonvektoren mit 2/4-Leiter-System, mit LCD-Display - Termostato electrónico programable con pantalla LCD
i-60	<ul style="list-style-type: none"> - Termostato elettronico touch con connessione WiFi per gestione remota - Touch fan coil thermostat with WiFi connection - Thermostat électronique tactile avec connexion WiFi pour gestion à distance - Elektronischer Touch-Thermostat mit WiFi-Anbindung für Fernüberwachung - Termostato electrónico Touch con conexión WiFi para gestión remota
i-70	<ul style="list-style-type: none"> - Termostato elettronico touch configurabile, con protocollo di comunicazione Modbus/BACnet (unità a 2 e 4 tubi) - Touch programmable electronic thermostat with Modbus/BACnet protocol communication (unit 2 and 4 pipe system) - Thermostat électronique tactile configurable, avec protocole de communication Modbus/BACnet (unité à 2 et 4 tubes) - Konfigurierbarer elektronischer Touch-Thermostat, mit Modbus/BACnet-Kommunikation mit 2/4-Leiter-System - Termostato electrónico Touch configurable, con protocolo de comunicación Modbus / Bacnet (unidades de 2 y 4 tubos)
i-Basic 1	<ul style="list-style-type: none"> - Termostato elettronico analogico base - Analog base electronic thermostat - Thermostat électronique analogique base - Analoger elektronischer Basisthermostat für Geräte mit 2-Leiter oder 4-Leiter-System - Termostato electrónico analógico base
i-Basic 2	<ul style="list-style-type: none"> - Termostato elettronico analogico - Analog electronic thermostat - Thermostat électronique analogique - Analoger elektronischer Thermostat für Geräte mit 2-Leiter oder 4-Leiter-System - Termostato electrónico analógico

i-Basic 3	<ul style="list-style-type: none"> - Termostato elettronico analogico con programmazione semplificata a DIP-SWITCH - Analog electronic thermostat with simplified DIP-SWITCH programming - Thermostat électronique analogique avec programmation simplifiée à DIP-SWITCH - Analoger elektronischer Thermostat mit vereinfachter DIP-Schalter Programmierung - Termostato electrónico analógico con programación simplificada a DIP-SWITCH
i-Com	<ul style="list-style-type: none"> - Comando senza regolazione di temperatura - Base switch without temperature control - Commande sans réglage de température - Regler für Geräte für 2-Leiter oder 4-Leiter-System ohne Temperaturregelung - Control sin regulación de temperatura
i-Digit 0-1-2-3	<ul style="list-style-type: none"> - Termostato elettronico programmabile con display LCD - Programmable electronic thermostat with LCD display - Thermostat électronique programmable avec écran LCD - Elektronischer Thermostat für Gebläsekonvektoren mit 2-Leiter oder 4-Leiter-System, mit LCD-Display - Termostato electrónico programable con pantalla LCD
IR-C	<ul style="list-style-type: none"> - Telecomando a raggi infrarossi (per cassette e sistemi TRI/F1 2.0 + S-MOD) - Infrared remote control (for cassette and TRI/F1 2.0 + S-MOD systems) - Télécommande à infrarouges (pour cassette et TRI/F1 2.0 + S-MOD systèmes) - Infrarot-Fernbedienung (für Kassettengeräte und TRI/F1 2.0 + S-MOD Systeme) - Control remoto IR (para fancoil de tipo cassette e sistemas TRI/F1 2.0 + S-MOD)
IR-T	<ul style="list-style-type: none"> - Telecomando a raggi infrarossi (per unità a parete) - Infrared remote control (for wall unit) - Télécommande à infrarouges (pour unité murale) - Infrarot-Fernbedienung für wandmontierte Geräte - Control remoto IR (para unidad de pared)
QCB	<ul style="list-style-type: none"> - Quadro comando base - Base control panel - Panneau de contrôle base - Basisbediengerät - Panel de control base
QCL	<ul style="list-style-type: none"> - Quadro comando base in lamiera - Sheet base control panel - Panneau de contrôle base en tôle - Basisbediengerät aus Metall - Panel de control base en chapa
QEL	<ul style="list-style-type: none"> - Quadro comando base in lamiera - Sheet base control panel - Panneau de contrôle base en tôle - Basisbediengerät aus Metall - Panel de control base en chapa
QTE	<ul style="list-style-type: none"> - Quadro comando base con termostato ambiente elettronico - Base control panel with electronic room thermostat - Panneau de contrôle base avec thermostat ambient électronique - Basisbediengerät mit elektronischem Raumthermostat - Panel de control base con termostato ambiente electrónico
QTM	<ul style="list-style-type: none"> - Quadro comando base con termostato ambiente elettromeccanico (a bulbo) - Base control panel with room electromechanical temperature bulb thermostat - Panneau de contrôle base avec thermostat ambient électromécanique (à bulbe) - Basischalttafel mit elektromechanischem Raumtempertur-Thermostat (mit Stabfühler) - Panel de control base con termostato ambiente electromecánico (a bulbo)
RWIECM 1-2	<ul style="list-style-type: none"> - Interfaccia utente a parete - Wall user interface - Interface utilisateur mural - Wandmontiertes Bediengerät - Interfaz de usuario de pared
S-MOD	<ul style="list-style-type: none"> - Sistema di supervisione - Supervision system - Système de supervision - Überwachungssystem - Sistema de supervisión
TRI/F1 2.0	<ul style="list-style-type: none"> - Controllo con telecomando IR o interfaccia a muro con protocollo di comunicazione Modbus - Infrared remote controller or wall controller with Modbus communication protocol - Contrôle avec télécommande IR ou interface mural avec protocole de communication Modbus - Steuerung mittels Infrarot-Fernbedienung oder wandmontiertes Bedienfeld mit Modbus-Kommunikationsprotokoll - Control con mando IR o interfaz de pared con protocolo de comunicación Modbus

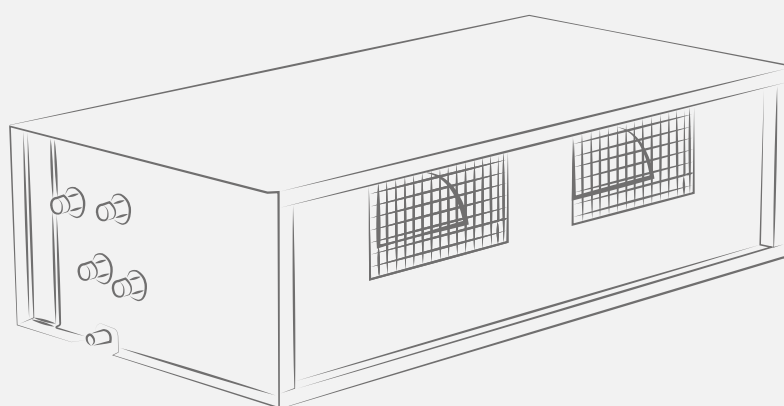
Compatibility of controls



— Compatible
 Compatible
 Compatible
 Kompatibel
 Compatible
 - - - - - Non compatible
 Not compatible
 Non compatible
 Nicht kompatibel
 NO compatible


FRESH FRESH-ECM


Thin profile
ductable air treatment unit




A GROUP S.p.A (Trademark VENTILCLIMA)
participates in the ECP programme for FCU.
Check ongoing validity of certificate:
www.eurovent-certification.com

Performance and reliability, with maximum efficiency

 2.4 ÷ 29.6 kW
cooling

 2.5 ÷ 34.2 kW
heating

 50%
energy saving up to 50%

 353 - 6232 m³/h
air flow

FRESH | FRESH-ECM



Structure:

single paneling version: made of hot-galvanized sheet Z200 1 mm and 1.5 mm thick (sizes 6-7) insulated with thermo-acoustic mattress class B-s2, d0 with closed cells, 6 mm thick.

double paneling version: made of Z200 hot galvanized sheet 1 mm and 1.5 mm thick (sizes 6-7) pre-painted white RAL9010 externally and internally galvanized, sandwich type panels 15 mm thick with mineral wool thermal and acoustic insulation density 35 kg/m³.



Auxiliary drain pan

made of hot galvanized sheet Z200, 1 mm thick, externally insulated with closed cell thermoacoustic mattress class B-s2, d0, 6 mm thick.



Air filter:

always supplied as standard and integrated in the unit, easily removable from the side or from the bottom, regenerable and made of synthetic filter fabric enclosed by a galvanized steel frame and efficiency class G3 * / EU3 **, 12 mm thick.

Alternatively, a wide range of filters with higher efficiencies are available including G3 * / EU3 ** 25 mm, G4 * / EU4 ** 48 mm or filter with aluminum mesh G1 * / EU1 ** 12 mm. Also available is the innovative electronic filter that allows complete air purification and at the same time ensures high efficiency thanks to minimal pressure drops.

(* according to EN779 / ** according to Eurovent)



Fan group

double-inlet centrifugal fans with statically and dynamically balanced horizontally-oriented aluminium impellers. Single-phase asynchronous electric motor with overload cutout. Multi-speed motor (3 of which are connected). The motor is directly coupled to the fans and cushioned with flexible mountings to ensure low noise.

The ECM series is instead equipped with innovative Brushless ECM motors that guarantee precise and modular control of the air flow, limiting the energy supply to the actual workload required, without unnecessary waste.



Coils:

coils are made of copper pipe expanded into aluminium fins.

Copper headers with male fittings (GAS threads) and easily accessible air vents.

The water connections are located on the left (looking at the air outlet).

On request, the water connections can be placed on the right side of the unit.

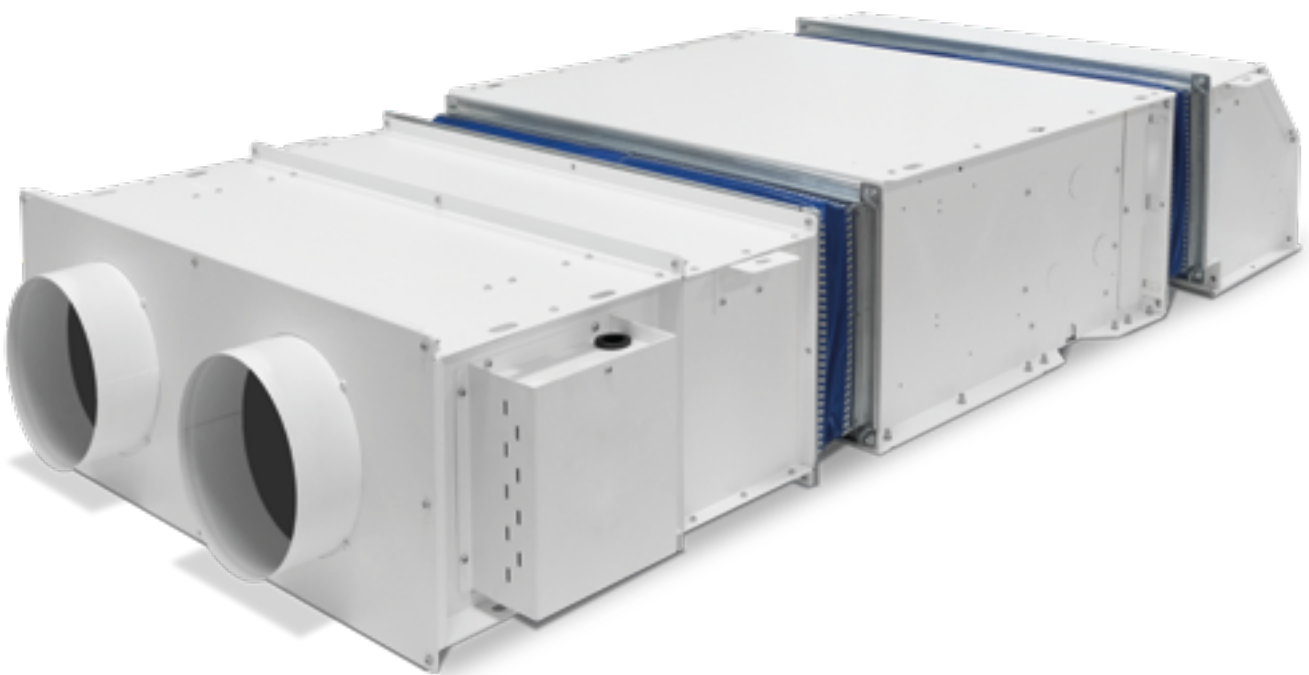
The heat exchanger coil is not suitable for use in corrosive atmospheres.

Thin profile ductable air treatment units are available in 8 versions and 7 sizes.

Units are extremely suitable for small and medium centralized conditioning systems connected by a small ducting network. The thin height of these units, make them the convenient solution for false ceiling installation, to make the best use of space available.

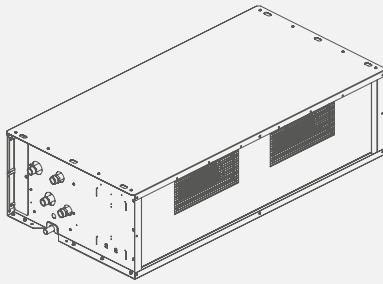
Great attention was also paid to the reduction and simplification of maintenance times, allowing the removal of the filter both from the sides and from the bottom.

Versions	
FRESH-H	single skin unit, horizontal installation, asynchronous motor
FRESH-H-ECM	single skin unit, horizontal installation, ECM motor
FRESH-V	single skin unit, vertical installation, asynchronous motor
FRESH-V-ECM	single skin unit, vertical installation, ECM motor
FRESH-DS-H	double skin unit, horizontal installation, asynchronous motor
FRESH-DS-H-ECM	double skin unit, horizontal installation, ECM motor
FRESH-DS-V	double skin unit, vertical installation, asynchronous motor
FRESH-DS-ECM	double skin unit, vertical installation, ECM motor



SINGLE SKIN UNIT

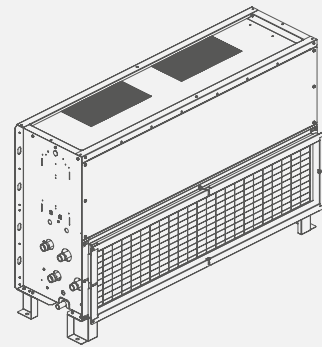
H



Horizontal installation

Single skin unit
galvanized steel sheet

V

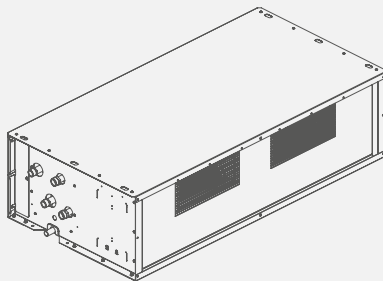


Vertical installation

Single skin unit
galvanized steel sheet

DOUBLE SKIN UNIT

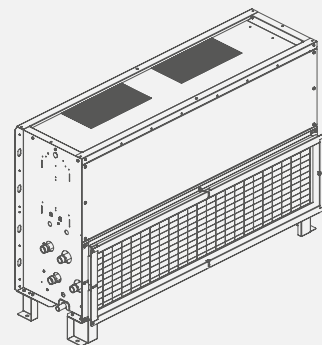
DS-H



Horizontal installation

Double skin unit
in pre-painted galvanized steel outside
in galvanized steel inside

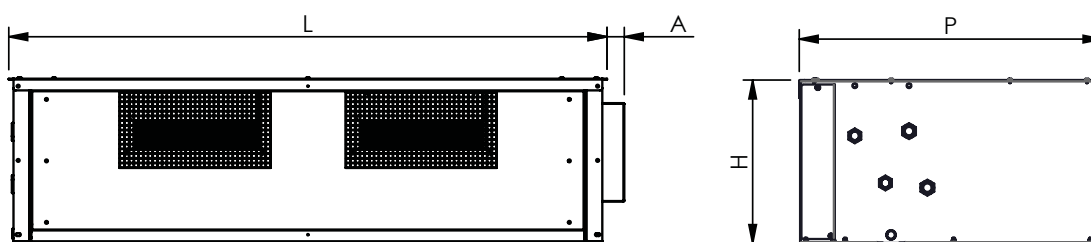
DS-V



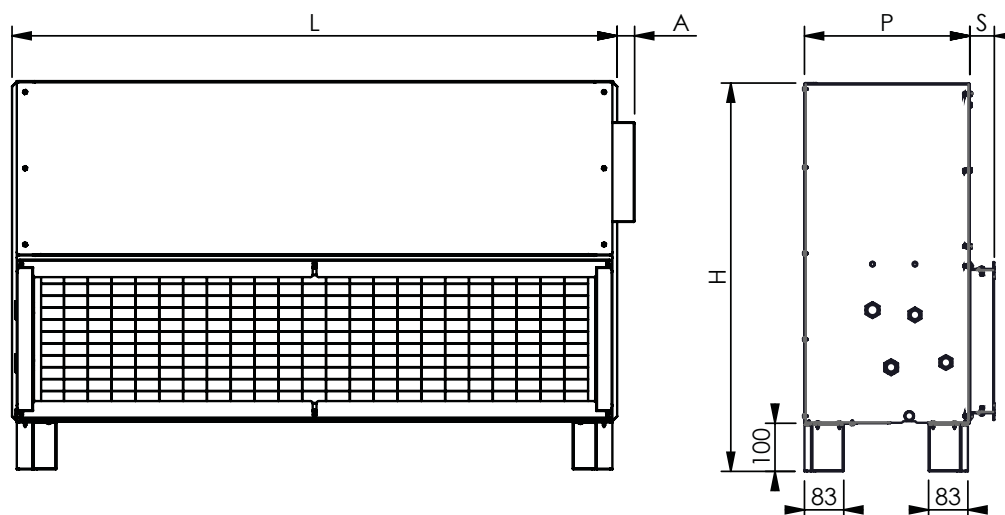
Vertical installation


Double skin unit
in pre-painted galvanized steel outside
in galvanized steel inside

			MOD. H							MOD. DS-H						
Unità orizzontale / Horizontal unit Unité horizontale / Horizontales gerät / Unidad horizontal			1	2	3	4	5	6	7	1	2	3	4	5	6	7
Lunghezza / Length / Longueur / Länge / Longitud	L	mm	770	1070	1270	1420	1520	2190	2190	793	1093	1293	1443	1543	2213	2213
Altezza / Height / Hauteur / Höhe / Altura	H	mm	297	297	347	372	397	373	398	325	325	375	400	425	401	426
Profondità / Depth / Profondeur / Tiefe / Profundidad	P	mm	643	643	643	770	770	770	770	643	643	643	770	770	770	770
	A		38	38	38	38	38	38	38	38	38	38	38	38	38	38
Motori-Ventilatori / Motors-Fans / Moteurs-Ventilateur Motoren-Ventilatoren / Motores-Ventiladores	n°		1-1	1-2	1-2	1-2	1-2	2-4	2-4	1-1	1-2	1-2	1-2	1-2	2-4	2-4



			MOD. V							MOD. DS-V						
Unità verticale / Vertical unit Unité verticale / Vertikales gerät / Unidad vertical			1	2	3	4	5	6	7	1	2	3	4	5	6	7
Lunghezza / Length / Longueur / Länge / Longitud	L	mm	770	1070	1270	1420	1520	2190	2190	793	1093	1293	1443	1543	2213	2213
Altezza / Height / Hauteur / Höhe / Altura	H	mm	740	740	815	890	915	891	916	754	754	829	904	929	905	930
Profondità / Depth / Profondeur / Tiefe / Profundidad	P	mm	297	297	347	372	397	373	398	325	325	375	400	425	401	426
	A		38	38	38	38	38	38	38	38	38	38	38	38	38	38
Motori-Ventilatori / Motors-Fans / Moteurs-Ventilateur Motoren-Ventilatoren / Motores-Ventiladores	n°		1-1	1-2	1-2	1-2	1-2	2-4	2-4	1-1	1-2	1-2	1-2	1-2	2-4	2-4
Filtro / Filter / Filtre / Filter / Filtro	S	mm	52	52	52	52	52	86	86	52	52	52	52	52	86	86



2 tubi - pipes - tubes Leiter - tubos			4R scambiatore - coil - batterie Wärmetauscher - batería			1	2	3	4	5	6 (*)	7 (*)
 <p>7/12 °C</p>	Potenza frigorifera totale Total cooling capacity Puissance frigorifique totale Kälteleistung gesamt Potencia frigorífica total	(E)	W	6	3058	-	-	-	-	-	-	-
			W	5	2987	6358	9708	12565	-	26062	-	
		W	4	2856	6058	9016	12010	16014	24480	29589		
		W	3	2785	5924	7825	11274	15131	22568	27851		
		W	2	2581	5618	6966	9140	13359	17979	24818		
		W	1	2433	5193	5689	6630	11810	13261	22020		
		W	6	2312	-	-	-	-	-	-	-	
		W	5	2256	4618	7048	9145	-	19562	-		
		W	4	2147	4388	6506	8720	11784	18260	22249		
		W	3	2092	4284	5585	8144	11081	16688	20801		
	Potenza frigorifera sensibile Sensible cooling capacity Puissance frigorifique sensible Sensible Kälteleistung Potencia frigorífica total sensible	(E)	W	2	1926	4048	4926	6490	9649	13039	18308	
			W	1	1819	3723	3999	4640	8470	9411	16050	
		Portata acqua Water flow Débit d'eau Wassermenge Flujo de agua	(E)	l/h	6	545	-	-	-	-	-	-
				l/h	5	530	1122	1714	2236	-	4646	-
				l/h	4	506	1065	1590	2127	2859	4348	5298
				l/h	3	493	1041	1380	1994	2695	4003	4976
				l/h	2	457	988	1229	1614	2373	3182	4430
				l/h	1	431	914	1003	1171	2103	2344	3931
		Perdite di carico lato acqua Water pressure drop Pertes charge côté eau Wasserseitiger Druckverlust Caidas de presión lado agua	(E)	kPa	6	11,4	-	-	-	-	-	-
				kPa	5	10,8	16,0	20,8	22,0	-	23,7	-
kPa	4			9,9	14,6	18,6	20,2	22,8	21,1	32,0		
kPa	3			9,2	14,1	14,5	18,0	21,0	18,2	28,9		
kPa	2			8,3	12,8	11,8	12,4	16,8	12,1	22,8		
kPa	1			7,8	11,2	8,4	7,0	13,6	7,1	18,1		
Potenza termica Heating capacity Puissance thermique Heizleistung Energía térmica	(E)	W	6	3230	-	-	-	-	-	-		
		W	5	3170	6950	10510	13880	-	30200	-		
		W	4	3020	6570	9630	13140	17980	28020	34170		
		W	3	2900	6410	8310	12240	16840	25540	31820		
		W	2	2710	6050	7350	9740	14640	19840	27930		
		W	1	2520	5570	5880	6880	12840	14310	24450		
	Portata acqua Water flow Débit d'eau Wassermenge Flujo de agua	(E)	l/h	6	562	-	-	-	-	-	-	
			l/h	5	547	1211	1830	2419	-	5261	-	
			l/h	4	519	1144	1686	2289	3132	4881	5952	
			l/h	3	506	1116	1447	2131	2934	4449	5544	
l/h			2	470	1054	1280	1696	2550	3454	4865		
l/h			1	440	970	1024	1201	2236	2492	4261		
Perdite di carico lato acqua Water pressure drop Pertes charge côté eau Wasserseitiger Druckverlust Caidas de presión lado agua	(E)	kPa	6	10,1	-	-	-	-	-	-		
		kPa	5	9,9	15,2	19,8	20,8	-	24,3	-		
		kPa	4	9,0	13,8	17,0	18,9	22,6	21,3	32,4		
		kPa	3	8,4	13,2	13,1	17,0	20,2	18,1	28,6		
		kPa	2	7,0	11,9	10,5	11,1	15,8	11,6	22,7		
		kPa	1	6,5	10,3	7,1	6,1	12,5	6,5	18,0		
Potenza termica Heating capacity Puissance thermique Heizleistung Energía térmica	(E)	W	6	3860	-	-	-	-	-	-		
		W	5	3760	8280	12530	16540	-	35740	-		
		W	4	3570	7830	11560	15660	21370	33210	40470		
		W	3	3480	7640	9930	14600	20030	30310	37740		
		W	2	3240	7220	8790	11640	17440	23620	33190		
		W	1	3030	6650	7050	8260	15330	17090	29110		
	Portata acqua Water flow Débit d'eau Wassermenge Flujo de agua	(E)	l/h	6	545	-	-	-	-	-	-	
			l/h	5	530	1122	1714	2236	-	4646	-	
			l/h	4	506	1065	1590	2127	2859	4348	5298	
			l/h	3	493	1041	1380	1994	2695	4003	4976	
l/h			2	457	988	1229	1614	2373	3182	4430		
l/h			1	431	914	1003	1171	2103	2344	3931		
Perdite di carico lato acqua Water pressure drop Pertes charge côté eau Wasserseitiger Druckverlust Caidas de presión lado agua	(E)	kPa	6	9,4	-	-	-	-	-	-		
		kPa	5	9,2	13,1	17,3	17,9	-	19,3	-		
		kPa	4	8,3	11,9	15,2	16,4	18,9	17,1	25,9		
		kPa	3	7,9	11,5	11,8	14,6	17,1	14,8	23,2		
		kPa	2	6,7	10,4	9,6	10,1	13,6	9,9	18,9		
		kPa	1	6,2	9,1	6,7	5,7	11,0	5,8	15,3		

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Geräte, die aufgrund von Definitionsgrenzen nicht der Eurovent-Zertifizierung unterliegen - Unidades no sujetas a certificación Eurovent debido a criterios de medida

- 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
- The sound power level test has been performed according to EN 16583:2015 standard / Sound pressure level: 8,6 dB(A) lower than 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
- 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
- Der Test zur Erfassung des Schalleistungspegels 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
- 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 (E) = Eurovent

2 tubi - pipes - tubes Leiter - tubos		4R	scambiatore - coil - batterie Wärmetauscher - batería	1	2	3	4	5	6 (*)	7 (*)
(E)	Portata aria Air flow Débit d'air Luftstrom Flujo de aire	m³/h	6	534	-	-	-	-	-	-
		m³/h	5	516	1114	1693	2240	-	5429	-
		m³/h	4	484	1039	1528	2128	3052	4916	6232
		m³/h	3	469	1007	1267	1946	2805	4357	5668
		m³/h	2	382	938	1092	1470	2350	3161	4776
		m³/h	1	353	848	838	976	1997	2122	4027
(E)	Pressione statica Static pressure Pression statique Statischer Druck Presión estática	Pa	6	61	-	-	-	-	-	-
		Pa	5	57	63	90	117	-	77	-
		Pa	4	50	55	73	106	86	63	86
		Pa	3	46	50	50	88	72	50	72
		Pa	2	39	44	37	50	50	26	50
		Pa	1	33	36	22	22	37	11	37
(E)	Livello di potenza sonora aspirazione + radiata / Sound power level inlet + radiated / Niveaux de puissance acoustique aspiration + rayonné / Schalleistungspegel Austritt und Abgestrahlt / Nivel de potencia acústica de admisión + resonancia	dB(A)	6	63	-	-	-	-	-	-
		dB(A)	5	62	71	65	70	-	73	-
		dB(A)	4	60	68	63	68	73	72	76
		dB(A)	3	59	67	59	64	70	69	74
		dB(A)	2	56	67	55	58	67	61	70
		dB(A)	1	54	63	51	55	63	55	66
(E)	Livello di potenza sonora mandata Sound power level outlet Niveaux de puissance acoustique soufflage Schalleistungspegel Austritt Nivel de potencia sonora de salida	dB(A)	6	62	-	-	-	-	-	-
		dB(A)	5	61	67	69	74	-	76	-
		dB(A)	4	59	65	66	70	75	74	78
		dB(A)	3	58	64	60	65	71	70	75
		dB(A)	2	55	64	57	59	66	61	69
		dB(A)	1	52	60	50	56	62	55	65
(E)	Livello di pressione sonora aspirazione + radiata / Sound pressure level inlet + radiated / Niveau de pression acoustique aspiration + rayonné / Schalldruckpegel Eintritt und Abgestrahlt / Nivel de presión sonora de admisión + resonancia	dB(A)	6	54	-	-	-	-	-	-
		dB(A)	5	53	62	56	61	-	64	-
		dB(A)	4	51	59	54	59	64	63	67
		dB(A)	3	50	58	50	55	61	60	65
		dB(A)	2	47	58	46	49	58	52	61
		dB(A)	1	45	54	42	46	54	46	57
(E)	Livello di pressione sonora mandata Sound pressure level outlet Niveau de pression acoustique soufflage Schalldruckpegel Austritt Nivel de presión sonora de salida	dB(A)	6	53	-	-	-	-	-	-
		dB(A)	5	52	58	60	65	-	67	-
		dB(A)	4	50	56	57	61	66	65	69
		dB(A)	3	49	55	51	57	62	61	66
		dB(A)	2	46	55	48	50	57	52	60
		dB(A)	1	43	51	41	47	53	46	56
(E)	Livello di potenza sonora aspirazione + radiata / Sound power level inlet + radiated / Niveaux de puissance acoustique aspiration + rayonné / Schalleistungspegel Austritt und Abgestrahlt / Nivel de potencia acústica de admisión + resonancia	dB(A)	6	62	-	-	-	-	-	-
		dB(A)	5	61	70	64	69	-	72	-
		dB(A)	4	59	67	62	67	72	71	75
		dB(A)	3	58	66	58	64	69	68	73
		dB(A)	2	55	66	54	57	66	60	69
		dB(A)	1	53	62	50	54	62	54	65
(E)	Livello di potenza sonora mandata Sound power level outlet Niveaux de puissance acoustique soufflage Schalleistungspegel Austritt Nivel de potencia sonora de salida	dB(A)	6	61	-	-	-	-	-	-
		dB(A)	5	60	66	68	73	-	75	-
		dB(A)	4	58	64	65	69	74	73	77
		dB(A)	3	57	63	59	65	70	69	74
		dB(A)	2	54	63	56	58	65	60	68
		dB(A)	1	51	59	49	55	61	54	64
(E)	Livello di pressione sonora aspirazione + radiata / Sound pressure level inlet + radiated / Niveau de pression acoustique aspiration + rayonné / Schalldruckpegel Eintritt und Abgestrahlt / Nivel de presión sonora de admisión + resonancia	dB(A)	6	53	-	-	-	-	-	-
		dB(A)	5	52	61	55	60	-	63	-
		dB(A)	4	50	58	53	58	63	62	66
		dB(A)	3	49	57	49	55	60	59	64
		dB(A)	2	46	57	45	48	57	51	60
		dB(A)	1	44	53	41	45	53	45	56
(E)	Livello di pressione sonora mandata Sound pressure level outlet Niveau de pression acoustique soufflage Schalldruckpegel Austritt Nivel de presión sonora de salida	dB(A)	6	52	-	-	-	-	-	-
		dB(A)	5	51	57	59	64	-	66	-
		dB(A)	4	49	55	56	60	65	64	68
		dB(A)	3	48	54	50	56	61	60	65
		dB(A)	2	45	54	47	49	56	51	59
		dB(A)	1	42	50	40	46	52	45	55

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- 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
- 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
- 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. / **Valores de tension admisibles**: ~230V / 1ph / 50-60Hz
- Der Test zur Erfassung des Schalleistungspegels 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
- 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 (E) = Eurovent

FRESH | FRESH-ECM

4 tubi - pipes - tubes (4+2)R scambiatore - coil - batterie Leiter - tubos Wärmetauscher - batería			1	2	3	4	5	6 (*)	7 (*)
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) W 6	3101	-	-	-	-	-	-
		(E) W 5	3010	5968	9338	11937	-	24582	-
		(E) W 4	2896	5728	8786	11521	15214	23350	27349
		(E) W 3	2837	5634	7725	10924	14511	21768	26171
		(E) W 2	2662	5408	6896	8970	13009	17549	23958
		(E) W 1	2516	5073	5639	6550	11620	12931	21520
	Potenza frigorifera sensibile Sensible cooling capacity Puissance frigorifique sensible Sensible Kälteleistung Potencia frigorífica total sensible	(E) W 6	2182	-	-	-	-	-	-
		(E) W 5	2136	4318	6758	8647	-	18322	-
		(E) W 4	2047	4138	6326	8331	11134	17320	20369
		(E) W 3	2002	4064	5505	7864	10581	16038	19401
		(E) W 2	1876	3888	4876	6370	9389	12689	17608
		(E) W 1	1769	3633	3959	4590	8320	9151	15650
	Portata acqua Water flow Débit d'eau Wassermenge Flujo de agua	(E) l/h 6	552	-	-	-	-	-	-
		(E) l/h 5	536	1055	1651	2129	-	4406	-
		(E) l/h 4	513	1009	1551	2044	2721	4167	4912
		(E) l/h 3	502	991	1363	1934	2589	3878	4687
		(E) l/h 2	471	952	1217	1586	2318	3117	4282
		(E) l/h 1	445	893	995	1158	2071	2294	3845
Perdite di carico lato acqua Water pressure drop Pertes charge côté eau Wasserseitiger Druckverlust Caídas de presión lado agua	(E) kPa 6	10,2	-	-	-	-	-	-	
	(E) kPa 5	9,9	14,4	20,3	20,2	-	21,3	-	
	(E) kPa 4	9,1	13,3	17,8	18,8	21,3	20,2	28,7	
	(E) kPa 3	8,7	12,9	14,2	17,0	19,5	18,4	26,4	
	(E) kPa 2	7,9	12,0	11,6	12,0	16,1	12,1	22,2	
	(E) kPa 1	7,0	10,8	8,2	6,9	13,2	7,4	18,8	
65/55 °C 20 °C	Potenza termica Heating capacity Puissance thermique Heizleistung Energía térmica	(E) W 6	4180	-	-	-	-	-	
		(E) W 5	4080	7910	12070	15520	-	32950	-
		(E) W 4	3930	7580	11380	14930	19970	31190	35980
		(E) W 3	3860	7460	10070	14150	19040	29080	34360
		(E) W 2	3630	7180	9080	11780	17130	23600	31460
		(E) W 1	3440	6770	7490	8770	15400	17770	28360
	Portata acqua Water flow Débit d'eau Wassermenge Flujo de agua	(E) l/h 6	366	-	-	-	-	-	-
		(E) l/h 5	358	693	1058	1361	-	2888	-
		(E) l/h 4	345	665	997	1309	1751	2735	3155
		(E) l/h 3	338	654	883	1242	1669	2550	3012
		(E) l/h 2	321	630	797	1031	1502	2069	2758
		(E) l/h 1	301	594	657	769	1351	1558	2486
	Perdite di carico lato acqua Water pressure drop Pertes charge côté eau Wasserseitiger Druckverlust Caídas de presión lado agua	(E) kPa 6	13,2	-	-	-	-	-	-
		(E) kPa 5	12,7	17,9	12,7	9,2	-	36,9	-
		(E) kPa 4	11,9	16,6	11,4	8,6	16,6	33,5	24,8
		(E) kPa 3	11,5	16,1	9,2	7,9	15,2	29,6	22,8
		(E) kPa 2	10,3	15,1	7,7	5,8	12,7	20,5	19,6
		(E) kPa 1	9,4	13,6	5,5	3,5	10,5	12,4	16,3
70/60 °C 20 °C	Potenza termica Heating capacity Puissance thermique Heizleistung Energía térmica	(E) W 6	4710	-	-	-	-	-	
		(E) W 5	4610	8930	13640	17560	-	37220	-
		(E) W 4	4430	8560	12860	16900	22590	35230	40690
		(E) W 3	4350	8420	11380	16030	21520	32840	38850
		(E) W 2	4130	8110	10260	13300	19360	26640	35570
		(E) W 1	3880	7640	8450	9910	17410	20040	32050
	Portata acqua Water flow Débit d'eau Wassermenge Flujo de agua	(E) l/h 6	414	-	-	-	-	-	-
		(E) l/h 5	405	785	1199	1542	-	3269	-
		(E) l/h 4	390	752	1130	1484	1984	3095	3574
		(E) l/h 3	382	740	1000	1408	1890	2885	3413
		(E) l/h 2	362	712	901	1169	1702	2341	3124
		(E) l/h 1	341	671	742	870	1529	1760	2815
	Perdite di carico lato acqua Water pressure drop Pertes charge côté eau Wasserseitiger Druckverlust Caídas de presión lado agua	(E) kPa 6	16,1	-	-	-	-	-	-
		(E) kPa 5	15,5	21,8	15,5	11,3	-	45,0	-
		(E) kPa 4	14,5	20,3	13,9	10,6	20,3	40,8	30,3
		(E) kPa 3	14,0	19,7	11,2	9,6	18,6	36,1	27,9
		(E) kPa 2	12,7	18,4	9,4	6,9	15,5	25,0	23,9
		(E) kPa 1	11,4	16,6	6,7	4,1	12,8	15,1	19,9

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Geräte, die aufgrund von Definitionsgrenzen nicht der Eurovent-Zertifizierung unterliegen - Unidades no sujetas a certificación Eurovent debido a criterios de medida

- 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
- The sound power level test has been performed according to EN 16583:2015 standard / Sound pressure level: 8,6 dB(A) lower than 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
- 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
- Der Test zur Erfassung des Schalleistungspegels 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
- 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 (E) = Eurovent

4 tubi - pipes - tubes Leiter - tubos		(4+2)R	scambiatore - coil - batterie Wärmetauscher - batería	1	2	3	4	5	6 (*)	7 (*)	
Portata aria Air flow Débit d'air Luftstrom Flujo de aire	(E)	m³/h	6	499	-	-	-	-	-	-	
		m³/h	5	484	1025	1608	2129	-	4991	-	
		m³/h	4	460	966	1478	2014	2844	4598	5562	
		m³/h	3	447	944	1245	1868	2650	4144	5187	
		m³/h	2	413	894	1079	1437	2275	3062	4548	
		m³/h	1	344	824	829	963	1955	2059	3904	
Pressione statica Static pressure Pression statique Statischer Druck Presión estática	(E)	Pa	6	61	-	-	-	-	-	-	
		Pa	5	57	63	90	124	-	77	-	
		Pa	4	50	55	73	106	86	63	86	
		Pa	3	46	50	50	82	72	50	72	
		Pa	2	39	44	37	50	50	26	50	
		Pa	1	33	36	22	22	37	11	37	
UNITÀ ORIZZONTALE & VERTICALE / SINGOLA PANNELLATURA HORIZONTAL & VERTICAL UNIT / SINGLE SKIN UNITÉ HORIZONTALE & VERTICALE / SIMPLE PEAU HORIZONTAL & VERTICALES GERÄT / EINHEIT MIT EINFACHEM GEHÄUSE UNIDAD HORIZONTAL & VERTICAL / PANELES INDIVIDUALES	(E)	Livello di potenza sonora aspirazione + radiata / Sound power level inlet + radiated / Niveaux de puissance acoustique aspiration + rayonné / Schalleistungspegel Austritt und Abgestrahlt / Nivel de potencia acústica de admisión + resonancia	dB(A)	6	63	-	-	-	-	-	
			dB(A)	5	62	71	65	70	-	73	-
			dB(A)	4	60	68	66	68	72	72	76
			dB(A)	3	59	67	59	68	70	69	74
			dB(A)	2	56	67	58	62	67	61	70
			dB(A)	1	54	63	51	55	63	55	66
	(E)	Livello di potenza sonora mandata Sound power level outlet Niveaux de puissance acoustique soufflage Schalleistungspegel Austritt Nivel de potencia sonora de salida	dB(A)	6	62	-	-	-	-	-	-
			dB(A)	5	61	67	69	74	-	76	-
			dB(A)	4	59	65	66	70	74	74	78
			dB(A)	3	58	64	60	68	71	70	75
			dB(A)	2	55	64	57	62	66	61	69
			dB(A)	1	52	60	50	56	62	55	65
UNITÀ ORIZZONTALE & VERTICALE / SINGOLA PANNELLATURA HORIZONTAL & VERTICAL UNIT / SINGLE SKIN UNITÉ HORIZONTALE & VERTICALE / SIMPLE PEAU HORIZONTAL & VERTICALES GERÄT / EINHEIT MIT EINFACHEM GEHÄUSE UNIDAD HORIZONTAL & VERTICAL / PANELES INDIVIDUALES	(E)	Livello di pressione sonora aspirazione + radiata / Sound pressure level inlet + radiated / Niveau de pression acoustique aspiration + rayonné / Schallleistungspegel Eintritt und Abgestrahlt / Nivel de presión sonora de admisión + resonancia	dB(A)	6	54	-	-	-	-	-	
			dB(A)	5	53	62	56	61	-	64	-
			dB(A)	4	51	59	54	59	63	63	67
			dB(A)	3	50	58	50	59	61	60	65
			dB(A)	2	47	58	46	53	58	52	61
			dB(A)	1	45	54	42	46	54	46	57
	(E)	Livello di pressione sonora mandata Sound pressure level outlet Niveau de pression acoustique soufflage Schallleistungspegel Austritt Nivel de presión sonora de salida	dB(A)	6	53	-	-	-	-	-	-
			dB(A)	5	52	58	60	65	-	67	-
			dB(A)	4	50	56	57	61	65	65	69
			dB(A)	3	49	55	51	59	62	61	66
			dB(A)	2	46	55	45	53	57	52	60
			dB(A)	1	43	51	41	47	53	46	56
UNITÀ ORIZZONTALE & VERTICALE / SINGOLA PANNELLATURA HORIZONTAL & VERTICAL UNIT / SINGLE SKIN UNITÉ HORIZONTALE & VERTICALE / SIMPLE PEAU HORIZONTAL & VERTICALES GERÄT / EINHEIT MIT EINFACHEM GEHÄUSE UNIDAD HORIZONTAL & VERTICAL / PANELES INDIVIDUALES	(E)	Livello di potenza sonora aspirazione + radiata / Sound power level inlet + radiated / Niveaux de puissance acoustique aspiration + rayonné / Schalleistungspegel Austritt und Abgestrahlt / Nivel de potencia acústica de admisión + resonancia	dB(A)	6	62	-	-	-	-	-	
			dB(A)	5	61	70	64	69	-	72	-
			dB(A)	4	59	67	62	67	71	71	75
			dB(A)	3	58	66	58	65	69	68	73
			dB(A)	2	55	66	54	57	66	60	69
			dB(A)	1	53	62	50	54	62	54	65
	(E)	Livello di potenza sonora mandata Sound power level outlet Niveaux de puissance acoustique soufflage Schalleistungspegel Austritt Nivel de potencia sonora de salida	dB(A)	6	61	-	-	-	-	-	-
			dB(A)	5	60	66	68	73	-	75	-
			dB(A)	4	58	64	65	69	73	73	77
			dB(A)	3	57	63	59	66	70	69	74
			dB(A)	2	54	63	53	58	65	60	68
			dB(A)	1	51	59	49	55	61	54	64
UNITÀ ORIZZONTALE & VERTICALE / SINGOLA PANNELLATURA HORIZONTAL & VERTICAL UNIT / SINGLE SKIN UNITÉ HORIZONTALE & VERTICALE / SIMPLE PEAU HORIZONTAL & VERTICALES GERÄT / EINHEIT MIT EINFACHEM GEHÄUSE UNIDAD HORIZONTAL & VERTICAL / PANELES INDIVIDUALES	(E)	Livello di pressione sonora aspirazione + radiata / Sound pressure level inlet + radiated / Niveau de pression acoustique aspiration + rayonné / Schallleistungspegel Eintritt und Abgestrahlt / Nivel de presión sonora de admisión + resonancia	dB(A)	6	53	-	-	-	-	-	
			dB(A)	5	52	61	55	60	-	63	-
			dB(A)	4	50	58	53	58	62	62	66
			dB(A)	3	49	57	49	56	60	59	64
			dB(A)	2	46	57	45	48	57	51	60
			dB(A)	1	44	53	41	45	53	45	56
	(E)	Livello di pressione sonora mandata Sound pressure level outlet Niveau de pression acoustique soufflage Schallleistungspegel Austritt Nivel de presión sonora de salida	dB(A)	6	52	-	-	-	-	-	-
			dB(A)	5	51	57	59	64	-	66	-
			dB(A)	4	49	55	56	60	64	64	68
			dB(A)	3	48	54	50	57	61	60	65
			dB(A)	2	45	54	44	49	56	51	59
			dB(A)	1	42	50	40	46	52	45	55

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- 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
- 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
- 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. / **Valours de tension admissibles**: ~230V / 1ph / 50-60Hz
- Der Test zur Erfassung des Schalleistungspegels 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
- 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 admissibles**: ~230V / 1ph / 50-60Hz

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

Motore asincrono - Asynchronous motor Moteur asynchrone - Asynchronmotor - Motor asíncrono			1	2	3	4	5	6 (*)	7 (*)
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	(E)	W 6	108	-	-	-	-	-	-
		W 5	94	162	252	463	-	1018	-
		W 4	82	149	224	389	596	860	1191
		W 3	78	144	195	346	529	762	1059
		W 2	73	138	174	270	461	561	922
		W 1	71	122	141	200	410	399	820
Corrente assorbita dal motore del ventilatore Motor fan absorbed current Courant absorbé par le moteur du ventilateur Vom Lüftermotor aufgenommenener Strom Corriente absorbida por el motor del ventilador		A 6	0,52	-	-	-	-	-	-
		A 5	0,45	0,78	1,22	2,24	-	4,92	-
		A 4	0,4	0,72	1,08	1,88	2,88	4,15	5,76
		A 3	0,38	0,70	0,94	1,67	2,56	3,68	5,11
		A 2	0,35	0,67	0,84	1,29	2,23	2,71	4,46
		A 1	0,34	0,58	0,68	0,95	1,98	1,93	3,96
Tensione di alimentazione Power supply Tension d'alimentation Stromversorgung Tensión de alimentación			~230V / 1ph / 50-60Hz						

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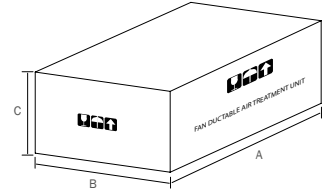
Motore ECM - ECM motor Moteur ECM - ECM-Motor - Motor ECM			1	2	3	4	5	6 (*)	7 (*)
Potenza assorbita dal motore del ventilatore Motor fan absorbed power Puissance absorbée par le moteur de ventilateur Vom Lüftermotor aufgenommene Leistung Potencia absorbida por el motor del ventilador	(E)	W 6	75	-	-	-	-	-	-
		W 5	69	131	207	343	-	829	-
		W 4	58	109	156	305	490	632	1043
		W 3	53	99	95	240	379	458	790
		W 2	35	82	66	115	232	203	478
		W 1	29	64	37	45	158	87	309
Corrente assorbita dal motore del ventilatore Motor fan absorbed current Courant absorbé par le moteur du ventilateur Vom Lüftermotor aufgenommenener Strom Corriente absorbida por el motor del ventilador		A 6	0,65	-	-	-	-	-	-
		A 5	0,61	1,02	1,78	1,56	-	3,70	-
		A 4	0,51	0,84	1,16	1,37	2,59	2,85	5,57
		A 3	0,43	0,77	0,67	1,10	1,93	2,13	4,04
		A 2	0,26	0,66	0,48	0,63	1,05	1,17	2,16
		A 1	0,24	0,48	0,28	0,40	0,68	0,80	1,34
Tensione di controllo velocità (Vdc) Speed control voltage (Vdc) Tension de contrôle de vitesse (Vcc) Drehzahlregelspannung (Vcc) Voltaje de control de velocidad (Vcc)		Vdc 6	7,4	-	-	-	-	-	-
		Vdc 5	6,8	9,4	8,1	9,7	-	9,0	-
		Vdc 4	5,9	8,2	7,1	8,2	7,3	7,5	7,5
		Vdc 3	5,4	7,6	5,5	7,1	6,5	6,4	6,6
		Vdc 2	3,8	6,7	4,5	4,6	5,2	4,1	5,2
		Vdc 1	2,7	5,2	2,6	2,1	4,3	1,5	4,3
Tensione di alimentazione Power supply Tension d'alimentation Stromversorgung Tensión de alimentación			~230V / 1ph / 50-60Hz						

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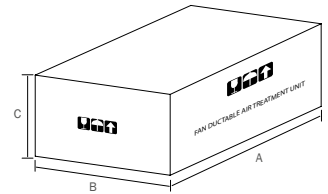
SINGLE SKIN UNIT

	dimensioni	peso netto	peso lordo	bancale		
	dimension	net weight	gross weight	L x P [mm]	[n.] unità - units	[kg] tot.
	[mm] (AxBxC)	[kg]	[kg]			
MOD. H 1	840 x 673 x 307	29	31	1200 x 800	5	170
MOD. H 2	1140 x 673 x 307	40	42	1200 x 800	5	225
MOD. H 3	1340 x 673 x 357	51	53	1550 x 800	5	280
MOD. H 4	1490 x 800 x 382	65	67	1550 x 800	5	350
MOD. H 5	1590 x 800 x 407	76	78	1800 x 900	4	327
MOD. H 6	2260 x 800 x 390	133	133	2400 x 800	4	547
MOD. H 7	2260 x 800 x 410	141	141	2400 x 800	4	579
MOD. V 1	820 x 645 x 350	36	36	1200 x 800	3	123
MOD. V 2	1120 x 645 x 350	51	51	1200 x 800	3	168
MOD. V 3	1320 x 720 x 400	65	65	1550 x 1000	3	210
MOD. V 4	1470 x 795 x 425	75	75	1550 x 1000	3	245
MOD. V 5	1570 x 820 x 450	83	83	1800 x 900	3	269
MOD. V 6	2240 x 795 x 425	145	145	2400 x 900	2	310
MOD. V 7	2240 x 820 x 450	155	155	2400 x 900	2	330



DOUBLE SKIN UNIT

	dimensioni	peso netto	peso lordo	bancale		
	dimension	net weight	gross weight	L x P [mm]	[n.] unità - units	[kg] tot.
	[mm] (AxBxC)	[kg]	[kg]			
MOD. DS H 1	840 x 650 x 330	43	45	1200 x 800	5	240
MOD. DS H 2	1440 x 650 x 330	59	61	1200 x 800	5	320
MOD. DS H 3	1340 x 650 x 380	71	73	1550 x 800	5	380
MOD. DS H 4	1490 x 800 x 420	92	94	1550 x 800	5	485
MOD. DS H 5	1590 x 800 x 440	101	103	1800 x 900	4	427
MOD. DS H 6	2260 x 800 x 420	167	167	2400 x 800	4	683
MOD. DS H 7	2260 x 800 x 440	175	175	2400 x 800	4	715
MOD. DS V 1	845 x 660 x 375	51	51	1200 x 800	3	168
MOD. DS V 2	1145 x 660 x 375	70	70	1200 x 800	3	225
MOD. DS V 3	1345 x 735 x 425	89	89	1550 x 1000	3	282
MOD. DS V 4	1495 x 810 x 450	105	105	1550 x 1000	3	335
MOD. DS V 5	1595 x 835 x 475	115	115	1800 x 1000	3	365
MOD. DS V 6	2265 x 810 x 450	190	190	2400 x 1000	2	400
MOD. DS V 7	2265 x 835 x 475	201	201	2400 x 1000	2	422



Compatibility of controls

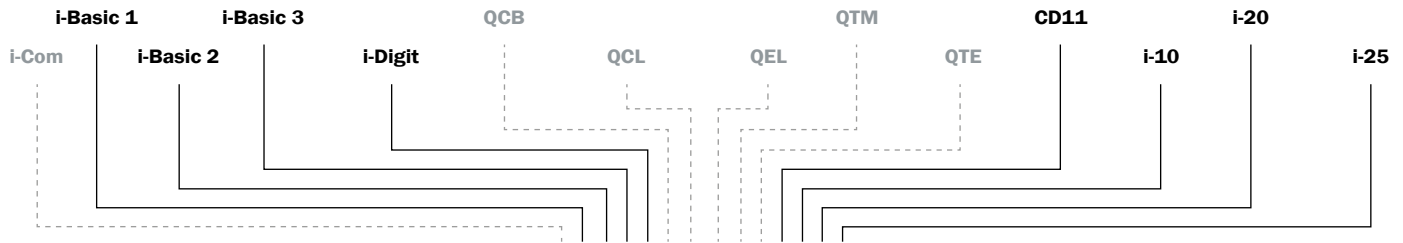
For the complete specifications of the controls, please refer to the part relating to the controls, available from page 164.

503FA	<ul style="list-style-type: none"> - Termostato elettronico con display LCD - Electronic thermostat with LCD display - Thermostat électronique avec écran LCD - Elektronisches Thermostat mit LCD-Display - Termostato electrónico con pantalla LCD 	i-Basic 3	<ul style="list-style-type: none"> - Termostato elettronico analogico con programmazione semplificata a DIP-SWITCH - Analog electronic thermostat with simplified DIP-SWITCH programming - Thermostat électronique analogique avec programmation simplifiée à DIP-SWITCH - Analoger elektronischer Thermostat mit vereinfachter DIP-Schalter Programmierung - Termostato electrónico analógico con programación simplificada DIP-SWITCH
AGKNFC101 (KNX)	<ul style="list-style-type: none"> - Regolatore per fan coil con protocollo KNX - KNX fan coil controller 	i-Com	<ul style="list-style-type: none"> - Comando senza regolazione di temperatura - Base switch without temperature control - Commande sans réglage de température - Regler für Geräte für 2-Leiter oder 4-Leiter-System ohne Temperaturregelung - Control sin regulación de temperatura
CD11	<ul style="list-style-type: none"> - Comando senza regolazione di temperatura - Control without temperature control - Commande sans réglage de température - Steuerung ohne Temperaturregelung - Control sin regulación de temperatura 	i-Digit 0-1-2-3	<ul style="list-style-type: none"> - Termostato elettronico programmabile con display LCD - Programmable electronic thermostat with LCD display - Thermostat électronique programmable avec écran LCD - Elektronischer Thermostat für Gebläsekonvektoren mit 2-Leiter oder 4-Leiter-System, mit LCD-Display - Termostato electrónico programable con pantalla LCD
COM-B	<ul style="list-style-type: none"> - Commutatore 3 velocità con selettore rotativo BTicino - BTicino rotary selector switch - Commutateur 3 vitesses avec sélecteur rotatif BTicino - Umschalter der 3 Geschwindigkeitsstufen mittels Wahlschalter BTicino - Conmutador de 3 velocidades con selector giratorio b-Ticino 	IR-C	<ul style="list-style-type: none"> - Telecomando a raggi infrarossi (per cassette e sistemi TRI/F1 2.0 + S-MOD) - Infrared remote control (for cassette and TRI/F1 2.0 + S-MOD systems) - Télécommande à infrarouges (pour cassette et TRI/F1 2.0 + S-MOD systèmes) - Infrarot-Fernbedienung (für Kassettengeräte und TRI/F1 2.0 + S-MOD Systeme) - Control remoto IR (para fancoil de tipo cassette e sistemas TRI/F1 2.0 + S-MOD)
COM-V	<ul style="list-style-type: none"> - Commutatore 3 velocità con selettore a slitta Vimar - Vimar 3-speed slide selector - Commutateur 3 vitesses avec sélecteur à glissière Vimar - Umschalter der 3 Geschwindigkeitsstufen mittels Schiebeshalter Vimar - Conmutador de 3 velocidades con selector deslizante Vimar 	IR-T	<ul style="list-style-type: none"> - Telecomando a raggi infrarossi (per unità a parete) - Infrared remote control (for wall unit) - Télécommande à infrarouges (pour unité murale) - Infrarot-Fernbedienung für wandmontierte Geräte - Control remoto IR (para unidad de pared)
FAN01	<ul style="list-style-type: none"> - Regolatore per fan coil configurabile con protocollo di comunicazione BACnet - Configurable fan coil controller with BACnet communication protocol - Régulateur pour ventilconvecteur configurable avec protocole de communication BACnet - Regler für Gebläsekonvektor konfigurierbar über Kommunikationsprotokoll BACnet - Controlador fancoil configurable con protocolo de comunicación BACnet 	QCB	<ul style="list-style-type: none"> - Quadro comando base - Base control panel - Panneau de contrôle base - Basisbediengerät - Panel de control base
i-10	<ul style="list-style-type: none"> - Termostato elettronico analogico base (unità a 2 e 4 tubi) - Analog electronic thermostat (2 and 4 pipe units) - Thermostat électronique analogique base (unité à 2 et 4 tubes) - Analoger elektronischer Basisthermostat für Geräte mit 2-Leiter- oder 4-Leiter-System - Termostato electrónico analógico base (unidades de 2 y 4 tubos) 	QCL	<ul style="list-style-type: none"> - Quadro comando base in lamiera - Sheet base control panel - Panneau de contrôle base en tôle - Basisbediengerät aus Metall - Panel de control base en chapa
i-20	<ul style="list-style-type: none"> - Termostato elettronico analogico (unità a 2 tubi) - Analog electronic thermostat (2 pipe units) - Thermostat électronique analogique (unité à 2 tubes) - Analoger elektronischer Thermostat für Geräte mit 2-Leiter-System - Termostato electrónico analógico (unidad de 2 tubos) 	QEL	<ul style="list-style-type: none"> - Quadro comando base in lamiera - Sheet base control panel - Panneau de contrôle base en tôle - Basisbediengerät aus Metall - Panel de control base en chapa
i-25	<ul style="list-style-type: none"> - Termostato elettronico analogico (unità a 4 tubi) - Analog electronic thermostat (4 pipe units) - Thermostat électronique analogique (unité à 4 tubes) - Analoger elektronischer Thermostat für Geräte mit 4-Leiter-System - Termostato electrónico analógico (unidad de 4 tubos) 	QTE	<ul style="list-style-type: none"> - Quadro comando base con termostato ambiente elettronico - Base control panel with electronic room thermostat - Panneau de contrôle base avec thermostat ambiant électronique - Basisbediengerät mit elektronischem Raumthermostat - Panel de control base con termostato ambiente electrónico
i-30	<ul style="list-style-type: none"> - Termostato elettronico programmabile con display LCD - Programmable electronic thermostat with LCD display - Thermostat électronique programmable avec écran LCD - Programmierbarer elektronischer Thermostat für Gebläsekonvektoren mit 2/4-Leiter-System, mit LCD-Display - Termostato electrónico programable con pantalla LCD 	QTM	<ul style="list-style-type: none"> - Quadro comando base con termostato ambiente elettromeccanico (a bulbo) - Base control panel with room electromechanical temperature bulb thermostat - Panneau de contrôle base avec thermostat ambiant électromécanique (à bulbe) - Basischalttafel mit elektromechanischem Raumtempertur-Thermostat (mit Stabfühler) - Panel de control base con termostato ambiente electromecánico (a bulbo)
i-50	<ul style="list-style-type: none"> - Termostato elettronico programmabile con display LCD - Programmable electronic thermostat with LCD display - Thermostat électronique programmable avec écran LCD - Programmierbarer elektronischer Thermostat für Gebläsekonvektoren mit 2/4-Leiter-System, mit LCD-Display - Termostato electrónico programable con pantalla LCD 	RWIECM 1-2	<ul style="list-style-type: none"> - Interfaccia utente a parete - Wall user interface - Interface utilisateur mural - Wandmontiertes Bediengerät - Interfaz de usuario de pared
i-60	<ul style="list-style-type: none"> - Termostato elettronico touch con connessione WiFi per gestione remota - Touch fan coil thermostat with WiFi connection - Thermostat électronique tactile avec connexion WiFi pour gestion à distance - Elektronischer Touch-Thermostat mit WiFi-Anbindung für Fernüberwachung - Termostato electrónico Touch con conexión WiFi para gestión remota 	S-MOD	<ul style="list-style-type: none"> - Sistema di supervisione - Supervision system - Système de supervision - Überwachungssystem - Sistema de supervisión
i-70	<ul style="list-style-type: none"> - Termostato elettronico touch configurabile, con protocollo di comunicazione Modbus/BACnet (unità a 2 e 4 tubi) - Touch programmable electronic thermostat with Modbus/BACnet protocol communication (unit 2 and 4 pipe system) - Thermostat électronique tactile configurable, avec protocole de communication Modbus/BACnet (unité à 2 et 4 tubes) - Konfigurierbarer elektronischer Touch-Thermostat, mit Modbus/BACnet-Kommunikation mit 2/4-Leiter-System - Termostato electrónico Touch configurable, con protocolo de comunicación Modbus / Bacnet (unidades de 2 y 4 tubos) 	TRI/F1 2.0	<ul style="list-style-type: none"> - Controllo con telecomando IR o interfaccia a muro con protocollo di comunicazione Modbus - Infrared remote controller or wall controller with Modbus communication protocol - Contrôle avec télécommande IR ou interface mural avec protocole de communication Modbus - Steuerung mittels Infrarot-Fernbedienung oder wandmontiertes Bedienfeld mit Modbus-Kommunikationsprotokoll - Control con mando IR o interfaz de pared con protocolo de comunicación Modbus
i-Basic 1	<ul style="list-style-type: none"> - Termostato elettronico analogico base - Analog base electronic thermostat - Thermostat électronique analogique base - Analoger elektronischer Basisthermostat für Geräte mit 2-Leiter oder 4-Leiter-System - Termostato electrónico analógico base 		
i-Basic 2	<ul style="list-style-type: none"> - Termostato elettronico analogico - Analog electronic thermostat - Thermostat électronique analogique - Analoger elektronischer Thermostat für Geräte mit 2-Leiter oder 4-Leiter-System - Termostato electrónico analógico 		

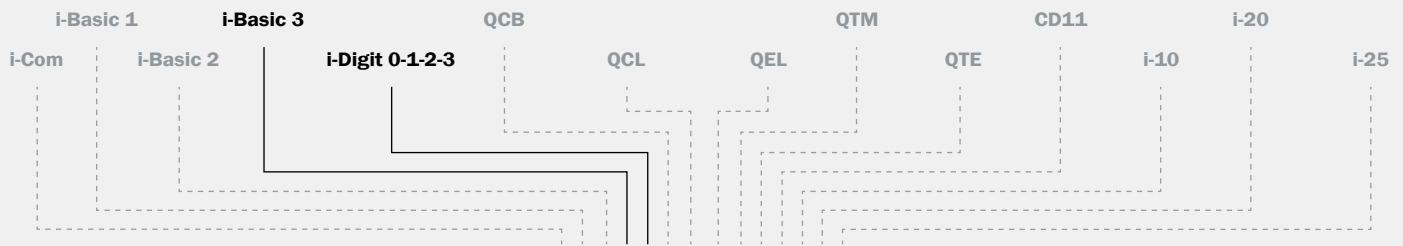
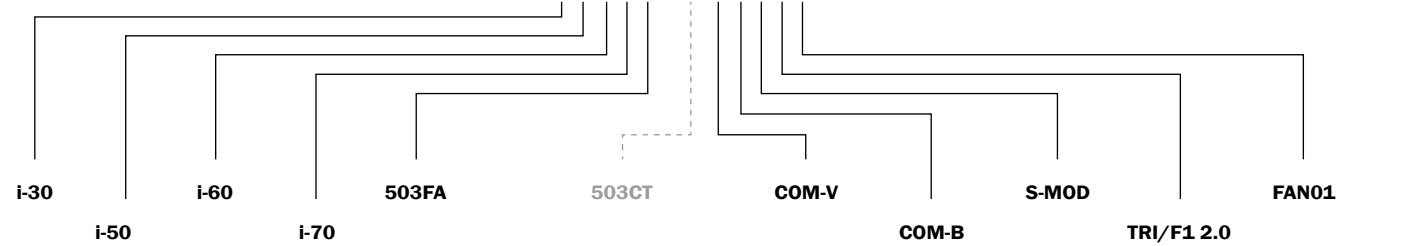
Compatibility of controls

Scheda di potenza per controllo a 3 velocità
 Power chart for 3-speed control
 Fiche de puissance pour contrôle à 3 vitesses
 Leistungsplatine zur Steuerung mit 3 Geschwindigkeiten
 Tarjeta de alimentación para el control de 3 velocidades

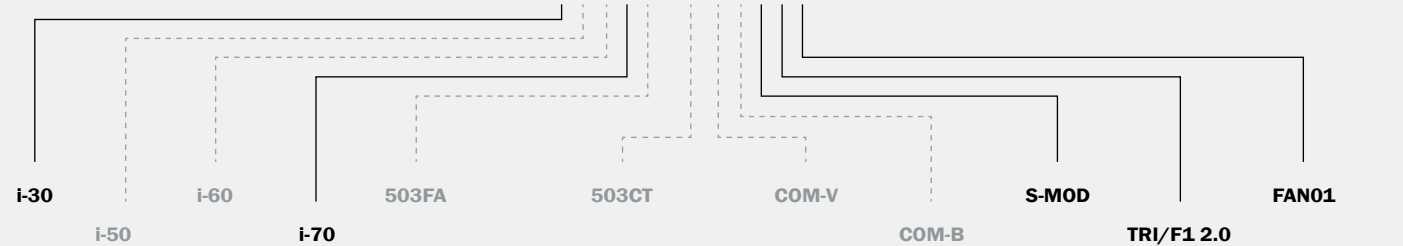
	i-Com	i-Basic 1	i-Basic 2	i-Basic 3	i-Digit 0-1-2-3	TRI/F1 2.0	CD11	i-10	i-20	i-25	i-30	i-50	i-60	i-70	503FA	S-MOD	FAN01
Mod. 1	-	-	○	○	○	○	-	-	-	-	○	○	○	○	○	○	○
Mod. 2	-	-	○	○	○	○	-	-	-	-	○	○	○	○	○	○	○
Mod. 3	-	○	○	○	○	○	-	-	-	-	○	○	○	○	○	○	○
Mod. 4	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Mod. 5	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Mod. 6	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Mod. 7	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●



FRESH



FRESH-ECM



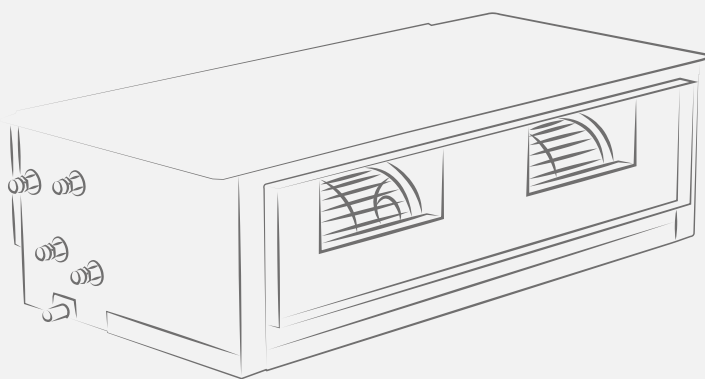
- Compatible
Compatible
Compatible
Kompatibel
Compatible
- - - - - Non compatibile
Not compatible
Non compatible
Nicht kompatibel
NO compatible
- Non necessaria
Not necessary
Non nécessaire
Nicht erforderlich
No Requerido
- Necessaria (inclusa di serie)
Necessary (included as standard)
Nécessaire (comprise de série)
Erforderlich (serienmäßig inbegriffen)
Requerido (incluido de serie)
- Necessaria (non inclusa)
Necessary (not included)
Nécessaire (non comprise)
Erforderlich (nicht inbegriffen)
Requerido (no incluido)

FRESH | FRESH-ECM

UTC/UTV


UTC/UTV-ECM

Ductable air treatment unit



A GROUP S.p.A (Trademark VENTILCLIMA) participates in the ECP programme for FCU. Check ongoing validity of certificate: www.eurovent-certification.com

Flexibility and durability, for every type of need

 **2.5 ÷ 42.0** kW
cooling

 **2.9 ÷ 46.9** kW
heating

 **50%**
energy saving up to 50%

 **491 - 7985** m³/h
air flow

UTC/UTV
UTC/UTV-ECM

**Structure:**

single skin unit, made of Z200 hot-dip galvanized sheet steel 1 mm and 1.5 mm thick (size 60-70) insulated with thermo-acoustic mat class B-s2, d0 with closed cells, 6 mm thick.

**Condensate drain pan**

made of Z200 hot-dip galvanized steel sheet of 1 mm thickness, externally insulated with thermo-acoustic mattress with closed cell class B-s2, d0, 6 mm thick.

**Air filter (optional):**

air filter section kit always optional and not included, consisting of a renewable filter and metal frame for fixing to the unit.

Wide range of regenerable filters made of synthetic filtering fabric and galvanized steel frame with different efficiency classes including G3 * / EU3 **, G2 * / EU2 ** with activated carbon, G4 * / EU4 ** or filter with aluminum mesh class G1 * / EU1 **. The filters are 25 mm thick (size 10÷50) and 48 mm (size 60-70).

Also available the innovative electronic filter that allows a complete purification of the air and at the same time ensures high efficiencies thanks to minimum pressure losses. (* according to EN779 / ** according to Eurovent)

**Fan section:**

double inlet centrifugal fans with statically and dynamically balanced aluminum horizontal fans. Single-phase asynchronous electric motor with overload protection. Multiple rotation speeds (3 of which are connected). The motor is directly coupled to the fans and cushioned with elastic supports for the benefit of quietness. The ECM series is instead equipped with innovative Brushless ECM motors that guarantee precise and modular control of the air flow, limiting the energy supply to the actual workload required, without any waste.

**Coils:**

copper tube coils with continuous pack aluminum fins clamped on the tubes by mechanical expansion. Copper manifolds equipped with male gas threaded connections and easily accessible air vent valves. Hydraulic connections positioned on the left (looking at the delivery of the unit air), on request they can be supplied on the right. The exchanger is not suitable for use in corrosive atmospheres.

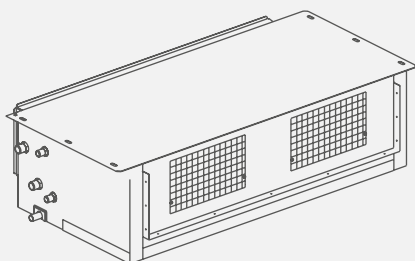
Flexibility and durability, for every type of need

The ductable air handling units are available in 4 construction versions, 7 power sizes, in the horizontal or vertical version and with air flow rates ranging from 480 to 8,000 m³ / h, thermal outputs from 2.8 to 56 kW and cooling capacities from 2.5 to 42 kW.

The units are particularly suitable for use in small and medium rooms for civil, commercial or industrial applications. The modularity of the basic components makes the units suitable for typical installation in false ceilings.

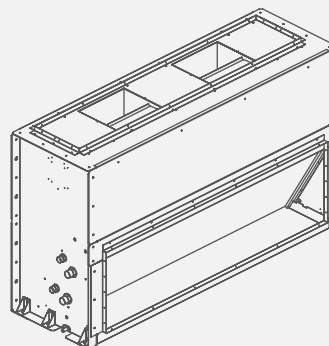
Versions	
UTC	horizontal installation, asynchronous motor
UTC-ECM	horizontal installation, ECM motor
UTV	vertical installation, asynchronous motor
UTV-ECM	vertical installation, ECM motor

UTC / UTC-ECM



Horizontal installation

UTV / UTV-ECM



Vertical installation

UTC/UTV
UTC/UTV-ECM

2 tubi - pipes - tubes Leiter - tubos			3R scambiatore - coil - batterie Wärmetauscher - batería					4R			
			10	20	30	40	50	60 (*)	70 (*)		
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)	W 7	-	5063	-	-	-	-	-	
			W 6	-	5040	-	-	-	-	-	
			W 5	-	4974	-	-	-	-	-	
			W 4	2735	4711	-	-	-	-	-	
			W 3	2714	4412	6936	8277	10850	23488	42068	
			W 2	2683	4084	6797	8066	9764	21629	39655	
	W 1	2543	3678	6536	7596	8081	19816	35610			
	Potenza frigorifera sensibile Sensible cooling capacity Puissance frigorifique sensible Sensible Kälteleistung Potencia frigorífica total sensible	(E)	W 7	-	3753	-	-	-	-	-	
			W 6	-	3740	-	-	-	-	-	
			W 5	-	3684	-	-	-	-	-	
			W 4	2025	3471	-	-	-	-	-	
			W 3	2014	3232	5216	6187	8250	16918	30788	
W 2			1983	2964	5107	6016	7334	15469	28875		
W 1	1873	2648	4856	5626	5971	14096	25670				
Portata acqua Water flow Débit d'eau Wassermenge Flujo de agua		l/h 7	-	892	-	-	-	-	-		
		l/h 6	-	887	-	-	-	-	-		
		l/h 5	-	875	-	-	-	-	-		
		l/h 4	487	828	-	-	-	-	-		
		l/h 3	484	777	1225	1459	1936	4200	7550		
		l/h 2	479	720	1197	1418	1736	3858	7081		
l/h 1	454	650	1143	1336	1438	3517	6352				
Perdite di carico lato acqua Water pressure drop Pertes charge côté eau Wasserseitiger Druckverlust Caídas de presión lado agua	(E)	kPa 7	-	25,4	-	-	-	-	-		
		kPa 6	-	25,1	-	-	-	-	-		
		kPa 5	-	24,5	-	-	-	-	-		
		kPa 4	13,5	22,2	-	-	-	-	-		
		kPa 3	13,4	19,9	28,3	27,7	23,9	34,4	36,4		
		kPa 2	13,1	17,4	27,2	26,3	19,7	29,6	32,5		
kPa 1	12,0	14,5	25,0	23,7	14,1	25,1	26,9				
45/40 °C 20 °C	Potenza termica Heating capacity Puissance thermique Heizleistung Energía térmica	(E)	W 7	-	5490	-	-	-	-	-	
			W 6	-	5450	-	-	-	-	-	-
			W 5	-	5370	-	-	-	-	-	-
			W 4	3080	5060	-	-	-	-	-	-
			W 3	3060	4720	7660	9040	12430	25450	46880	
			W 2	3030	4350	7470	8760	11010	23210	43630	
	W 1	2860	3900	7100	8210	8960	20970	38670			
	Portata acqua Water flow Débit d'eau Wassermenge Flujo de agua		l/h 7	-	956	-	-	-	-	-	
			l/h 6	-	950	-	-	-	-	-	
			l/h 5	-	936	-	-	-	-	-	
			l/h 4	537	881	-	-	-	-	-	
			l/h 3	534	822	1335	1575	2165	4433	8166	
l/h 2			527	758	1301	1526	1918	4042	7604		
l/h 1	498	679	1237	1430	1562	3652	6736				
Perdite di carico lato acqua Water pressure drop Pertes charge côté eau Wasserseitiger Druckverlust Caídas de presión lado agua	(E)	kPa 7	-	23,6	-	-	-	-	-		
		kPa 6	-	23,3	-	-	-	-	-		
		kPa 5	-	22,7	-	-	-	-	-		
		kPa 4	13,2	20,5	-	-	-	-	-		
		kPa 3	13,1	18,1	27,1	26,1	24,0	31,1	34,5		
		kPa 2	12,8	15,7	25,9	24,7	19,4	26,5	30,4		
kPa 1	11,6	12,9	23,7	22,0	13,5	22,1	24,5				
50 °C 20 °C	Potenza termica Heating capacity Puissance thermique Heizleistung Energía térmica		W 7	-	6540	-	-	-	-	-	
			W 6	-	6500	-	-	-	-	-	-
			W 5	-	6410	-	-	-	-	-	-
			W 4	3660	6030	-	-	-	-	-	-
			W 3	3640	5640	9120	10770	14730	30440	55840	
			W 2	3600	5200	8890	10440	13070	27750	52020	
	W 1	3400	4660	8450	9790	10670	25100	46190			
	Portata acqua Water flow Débit d'eau Wassermenge Flujo de agua		l/h 7	-	892	-	-	-	-	-	
			l/h 6	-	887	-	-	-	-	-	
			l/h 5	-	875	-	-	-	-	-	
			l/h 4	487	828	-	-	-	-	-	
			l/h 3	484	777	1225	1459	1936	4200	7550	
l/h 2			479	720	1197	1418	1736	3858	7081		
l/h 1	454	650	1143	1336	1438	3517	6352				
Perdite di carico lato acqua Water pressure drop Pertes charge côté eau Wasserseitiger Druckverlust Caídas de presión lado agua		kPa 7	-	20,7	-	-	-	-	-		
		kPa 6	-	20,4	-	-	-	-	-		
		kPa 5	-	20,0	-	-	-	-	-		
		kPa 4	11,0	18,1	-	-	-	-	-		
		kPa 3	10,9	16,2	23,1	22,5	19,4	28,0	29,7		
		kPa 2	10,7	14,2	22,1	21,4	16,0	24,1	26,5		
kPa 1	9,7	11,8	20,4	19,3	11,5	20,5	21,9				

* Unità non soggette a certificazione Eurovent per limiti di definizione - Units not subject to Eurovent certification due to definition limits - Unités non soumises à la certification Eurovent par limites de définition
Geräte, die aufgrund von Definitionsgrenzen nicht der Eurovent-Zertifizierung unterliegen - Unidades no sujetas a certificación Eurovent debido a criterios de medida

- 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
- The sound power level test has been performed according to EN 16583:2015 standard / Sound pressure level: 8,6 dB(A) lower than 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
- 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
- Der Test zur Erfassung des Schalleistungspegels 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
- 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 (E) = Eurovent

			3R scambiatore - coil - batteria Wärmetauscher - batería					4R	
			10	20	30	40	50	60 (*)	70 (*)
2 tubi - pipes - tubes Leiter - tubos									
Portata aria Air flow Débit d'air Luftstrom Flujo de aire	(E)	m³/h 7	-	970	-	-	-	-	-
		m³/h 6	-	962	-	-	-	-	-
		m³/h 5	-	944	-	-	-	-	-
		m³/h 4	541	873	-	-	-	-	-
		m³/h 3	536	800	1419	1326	2401	4134	7985
		m³/h 2	528	721	1371	1276	2041	3676	7279
		m³/h 1	491	629	1282	1200	1560	3242	6246
Pressione statica Static pressure Pression statique Statischer Druck Presión estática	(E)	Pa 7	-	64	-	-	-	-	-
		Pa 6	-	62	-	-	-	-	-
		Pa 5	-	59	-	-	-	-	-
		Pa 4	54	50	-	-	-	-	-
		Pa 3	52	42	55	56	70	122	121
		Pa 2	50	34	50	50	50	100	100
		Pa 1	44	26	44	42	29	76	77
Livello di potenza sonora aspirazione + radiata Sound power level inlet + radiated Niveaux de puissance acoustique aspiration + rayonné Schallleistungspegel Austritt und Abgestrahlt Nivel de potencia acústica de admisión + resonancia	(E)	dB(A) 7	-	65	-	-	-	-	-
		dB(A) 6	-	64	-	-	-	-	-
		dB(A) 5	-	63	-	-	-	-	-
		dB(A) 4	58	62	-	-	-	-	-
		dB(A) 3	57	61	63	65	71	70	72
		dB(A) 2	57	59	62	64	68	66	67
		dB(A) 1	56	57	60	62	62	61	62
Livello di potenza sonora mandata Sound power level outlet Niveaux de puissance acoustique soufflage Schallleistungspegel Austritt Nivel de potencia sonora de salida	(E)	dB(A) 7	-	65	-	-	-	-	-
		dB(A) 6	-	64	-	-	-	-	-
		dB(A) 5	-	64	-	-	-	-	-
		dB(A) 4	61	60	-	-	-	-	-
		dB(A) 3	61	58	66	66	70	74	75
		dB(A) 2	60	56	65	65	67	69	70
		dB(A) 1	58	55	62	63	63	64	65
Livello di pressione sonora aspirazione + radiata Sound pressure level inlet + radiated Niveau de pression acoustique aspiration + rayonné Schalldruckpegel Eintritt und Abgestrahlt Nivel de presión sonora de admisión + resonancia	(E)	dB(A) 7	-	56	-	-	-	-	-
		dB(A) 6	-	55	-	-	-	-	-
		dB(A) 5	-	54	-	-	-	-	-
		dB(A) 4	49	53	-	-	-	-	-
		dB(A) 3	48	52	54	56	62	61	63
		dB(A) 2	48	50	53	55	59	57	58
		dB(A) 1	47	48	51	53	53	52	53
Livello di pressione sonora mandata Sound pressure level outlet Niveau de pression acoustique soufflage Schalldruckpegel Austritt Nivel de presión sonora de salida	(E)	dB(A) 7	-	56	-	-	-	-	-
		dB(A) 6	-	55	-	-	-	-	-
		dB(A) 5	-	55	-	-	-	-	-
		dB(A) 4	52	51	-	-	-	-	-
		dB(A) 3	52	49	57	57	61	65	66
		dB(A) 2	51	47	56	56	58	60	61
		dB(A) 1	49	46	53	54	54	55	56

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- 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
- The sound power level test has been performed according to EN 16583:2015 standard / Sound pressure level: 8,6 dB(A) lower than 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
- 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
- Der Test zur Erfassung des Schallleistungspegels wurde gemäß der Norm EN 16583: 2015 durchgeführt / Schalldruckpegel: 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
- 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 admissibles: ~230V / 1ph / 50-60Hz

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

4 tubi - pipes - tubes Leiter - tubos			(3+1)R scambiatore - coil - batterie Wärmetauscher - batería					(4+2)R		
			10	20	30	40	50	60 (*)	70 (*)	
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)	W 7	-	4943	-	-	-	-	-
			W 6	-	4920	-	-	-	-	-
			W 5	-	4854	-	-	-	-	-
			W 4	2665	4631	-	-	-	-	-
			W 3	2654	4362	6776	8117	10650	22958	40818
			W 2	2623	4044	6657	7926	9644	21409	38985
	W 1	2493	3658	6376	7506	8031	19636	35350		
	W 7	-	3653	-	-	-	-	-		
	W 6	-	3640	-	-	-	-	-		
	W 5	-	3584	-	-	-	-	-		
	W 4	1975	3411	-	-	-	-	-		
	W 3	1964	3192	5076	6047	8080	16498	29758		
W 2	1933	2944	4987	5906	7244	15299	28335			
W 1	1833	2638	4756	6016	5931	13956	25470			
Portata acqua Water flow Débit d'eau Wassermenge Flujo de agua			l/h 7	-	871	-	-	-	-	
			l/h 6	-	866	-	-	-	-	
			l/h 5	-	855	-	-	-	-	
			l/h 4	475	815	-	-	-	-	
			l/h 3	473	768	1198	1431	1900	4109	7335
			l/h 2	468	714	1172	1394	1718	3820	6966
l/h 1	446	647	1123	1320	1430	3487	6308			
Perdite di carico lato acqua Water pressure drop Pertes charge côté eau Wasserseitiger Druckverlust Caídas de presión lado agua	(E)		kPa 7	-	24,3	-	-	-	-	
			kPa 6	-	24,1	-	-	-	-	
			kPa 5	-	23,5	-	-	-	-	-
			kPa 4	13,0	21,6	-	-	-	-	-
			kPa 3	12,8	19,5	27,2	26,7	23,1	33,1	34,6
			kPa 2	12,6	17,1	26,2	25,5	19,3	29,1	31,6
kPa 1	11,6	14,4	24,3	23,2	14,0	24,8	26,5			
65/55 °C 20 °C	Potenza termica Heating capacity Puissance thermique Heizleistung Energía térmica	(E)	W 7	-	4440	-	-	-	-	
			W 6	-	4420	-	-	-	-	-
			W 5	-	4360	-	-	-	-	-
			W 4	2560	4180	-	-	-	-	-
			W 3	2550	3960	6130	7240	9810	29570	52860
			W 2	2530	3710	6010	7070	8930	27580	50280
	W 1	2420	3400	5770	6730	7560	25290	45700		
	l/h 7	-	389	-	-	-	-	-		
	l/h 6	-	387	-	-	-	-	-		
	l/h 5	-	383	-	-	-	-	-		
	l/h 4	225	366	-	-	-	-	-		
	l/h 3	224	347	537	635	860	2593	4634		
l/h 2	222	326	526	619	783	2418	4408			
l/h 1	212	298	506	590	663	2217	4006			
Perdite di carico lato acqua Water pressure drop Pertes charge côté eau Wasserseitiger Druckverlust Caídas de presión lado agua	(E)		kPa 7	-	10,0	-	-	-	-	
			kPa 6	-	9,9	-	-	-	-	
			kPa 5	-	9,7	-	-	-	-	-
			kPa 4	18,3	9,0	-	-	-	-	-
			kPa 3	18,2	8,2	21,0	10,8	21,7	20,8	22,3
			kPa 2	17,9	7,3	20,3	10,4	18,4	18,0	20,4
kPa 1	16,6	6,3	18,9	9,5	13,7	15,5	17,3			
70/60 °C 20 °C	Potenza termica Heating capacity Puissance thermique Heizleistung Energía térmica		W 7	-	5030	-	-	-	-	
			W 6	-	5000	-	-	-	-	-
			W 5	-	4940	-	-	-	-	-
			W 4	2900	4730	-	-	-	-	-
			W 3	2890	4490	6930	8200	11110	33410	59740
			W 2	2860	4210	6800	8010	10110	31150	56820
	W 1	2740	3850	6530	7620	8560	28560	51630		
	l/h 7	-	442	-	-	-	-	-		
	l/h 6	-	439	-	-	-	-	-		
	l/h 5	-	434	-	-	-	-	-		
	l/h 4	255	416	-	-	-	-	-		
	l/h 3	253	394	609	720	976	2935	5247		
l/h 2	251	369	597	703	888	2737	4990			
l/h 1	240	338	574	670	752	1509	4536			
Perdite di carico lato acqua Water pressure drop Pertes charge côté eau Wasserseitiger Druckverlust Caídas de presión lado agua			kPa 7	-	12,3	-	-	-	-	
			kPa 6	-	12,2	-	-	-	-	
			kPa 5	-	11,9	-	-	-	-	-
			kPa 4	22,4	11,0	-	-	-	-	-
			kPa 3	22,2	10,0	25,7	13,3	26,6	24,9	27,2
			kPa 2	21,9	8,9	24,8	12,7	22,6	22,0	24,9
kPa 1	20,2	7,7	23,2	11,7	16,8	18,9	21,1			

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4 tubi - pipes - tubes Leiter - tubos			(3+1)R scambiatore - coil - batterie Wärmetauscher - batería					(4+2)R	
			10	20	30	40	50	60 (*)	70 (*)
Portata aria Air flow Débit d'air Luftstrom Flujo de aire	(E)	m³/h 7	-	939	-	-	-	-	-
		m³/h 6	-	932	-	-	-	-	-
		m³/h 5	-	914	-	-	-	-	-
		m³/h 4	523	749	-	-	-	-	-
		m³/h 3	519	690	1372	1595	2335	4009	7657
		m³/h 2	512	608	1330	1536	2010	3627	7112
Pressione statica Static pressure Pression statique Statischer Druck Presión estática	(E)	Pa 7	-	64	-	-	-	-	-
		Pa 6	-	62	-	-	-	-	-
		Pa 5	-	59	-	-	-	-	-
		Pa 4	54	50	-	-	-	-	-
		Pa 3	52	42	55	56	70	122	121
		Pa 2	50	34	50	50	50	100	100
Livello di potenza sonora aspirazione + radiata Sound power level inlet + radiated Niveau de puissance acoustique aspiration + rayonné Schallleistungspegel Austritt und Abgestrahlt Nivel de potencia acústica de admisión + resonancia	(E)	dB(A) 7	-	64	-	-	-	-	-
		dB(A) 6	-	63	-	-	-	-	-
		dB(A) 5	-	62	-	-	-	-	-
		dB(A) 4	58	60	-	-	-	-	-
		dB(A) 3	57	59	63	65	71	70	72
		dB(A) 2	57	57	62	64	68	66	67
Livello di potenza sonora mandata Sound power level outlet Niveau de puissance acoustique soufflage Schallleistungspegel Austritt Nivel de potencia sonora de salida	(E)	dB(A) 7	-	63	-	-	-	-	-
		dB(A) 6	-	62	-	-	-	-	-
		dB(A) 5	-	63	-	-	-	-	-
		dB(A) 4	61	60	-	-	-	-	-
		dB(A) 3	61	58	66	66	70	74	75
		dB(A) 2	60	56	65	65	67	69	70
Livello di pressione sonora aspirazione + radiata Sound pressure level inlet + radiated Niveau de pression acoustique aspiration + rayonné Schalldruckpegel Eintritt und Abgestrahlt Nivel de presión sonora de admisión + resonancia	(E)	dB(A) 7	-	55	-	-	-	-	-
		dB(A) 6	-	54	-	-	-	-	-
		dB(A) 5	-	53	-	-	-	-	-
		dB(A) 4	49	51	-	-	-	-	-
		dB(A) 3	48	50	54	56	62	61	63
		dB(A) 2	48	48	53	55	59	57	58
Livello di pressione sonora mandata Sound pressure level outlet Niveau de pression acoustique soufflage Schalldruckpegel Austritt Nivel de presión sonora de salida	(E)	dB(A) 7	-	54	-	-	-	-	-
		dB(A) 6	-	53	-	-	-	-	-
		dB(A) 5	-	52	-	-	-	-	-
		dB(A) 4	52	51	-	-	-	-	-
		dB(A) 3	52	49	57	57	61	65	66
		dB(A) 2	51	47	56	56	58	60	61
dB(A) 1	49	46	53	54	54	55	56		

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- Der Test zur Erfassung des Schalleistungspegels wurde gemäß der Norm EN 16583: 2015 durchgeführt / Schalldruckpegel: Schalldruckpegel: 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
- 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 admissibles: ~230V / 1ph / 50-60Hz

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Motore asincrono - Asynchronous motor Moteur asynchrone - Asynchronmotor - Motor asincrono			10	20	30	40	50	60 (*)	70 (*)
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	(E)	W 7	-	137	-	-	-	-	-
		W 6	-	130	-	-	-	-	-
		W 5	-	126	-	-	-	-	-
		W 4	105	119	-	-	-	-	-
		W 3	106	118	204	265	430	992	1932
		W 2	107	116	173	236	366	861	1615
		W 1	107	112	164	216	299	684	1410
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 7	-	0,64	-	-	-	-	-
		A 6	-	0,63	-	-	-	-	-
		A 5	-	0,59	-	-	-	-	-
		A 4	0,51	0,55	-	-	-	-	-
		A 3	0,51	0,54	1,12	1,36	1,90	4,52	9,00
		A 2	0,51	0,54	0,87	1,14	1,67	3,95	7,90
		A 1	0,49	0,52	0,79	1,07	1,45	3,25	6,50
Tensione di alimentazione Power supply Tension d'alimentation Stromversorgung Tensión de alimentación			~230V / 1ph / 50-60Hz						

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Motore ECM - ECM motor Moteur ECM - ECM-Motor - Motor ECM			10	20	30	40	50	60 (*)	70 (*)
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	(E)	W 7	-	118	-	-	-	-	-
		W 6	-	113	-	-	-	-	-
		W 5	-	112	-	-	-	-	-
		W 4	81	92	-	-	-	-	-
		W 3	78	74	161	172	345	656	1285
		W 2	75	58	145	151	224	475	990
		W 1	63	43	124	122	117	336	673
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 7	-	0,99	-	-	-	-	-
		A 6	-	0,98	-	-	-	-	-
		A 5	-	0,97	-	-	-	-	-
		A 4	0,66	0,78	-	-	-	-	-
		A 3	0,61	0,60	1,26	1,22	1,92	2,81	5,52
		A 2	0,58	0,47	1,19	1,04	1,07	2,05	4,26
		A 1	0,48	0,35	1,01	0,88	0,54	1,46	2,93
Tensione di controllo velocità (Vdc) Speed control voltage (Vdc) Tension de contrôle de vitesse (Vcc) Drehzahlregelspannung (Vcc) Voltaje de control de velocidad (Vcc)		Vdc 7	-	8,80	-	-	-	-	-
		Vdc 6	-	8,70	-	-	-	-	-
		Vdc 5	-	8,30	-	-	-	-	-
		Vdc 4	8,70	7,10	-	-	-	-	-
		Vdc 3	8,50	6,00	6,80	6,20	7,20	5,70	5,40
		Vdc 2	8,30	4,70	6,30	5,50	5,90	4,30	4,30
		Vdc 1	7,40	3,00	5,50	4,50	4,40	3,20	3,20
Tensione di alimentazione Power supply Tension d'alimentation Stromversorgung Tensión de alimentación			~230V / 1ph / 50-60Hz						

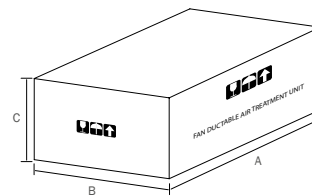
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velocità cablate / wired speed / vitesse câblée / verkabelte Geschwindigkeitsstufe / velocidades cableadas (E) = Eurovent

Weights and packaging

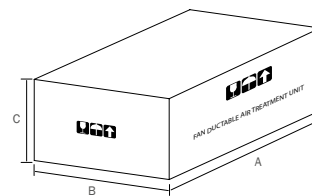
UTC

	dimensioni	peso netto	peso lordo	bancale		
	dimension	net weight	gross weight	L x P [mm]	[n.] unità - units	[kg] tot.
	[mm] (AxBxC)	[kg]	[kg]			
MOD. 10	800 x 640 x 320	24,5	26,0	1300 x 800	10	275
MOD. 20	1210 x 640 x 320	32,5	35,5	1200 x 800	5	192,5
MOD. 30	1310 x 640 x 350	38,0	41,0	1300 x 800	5	220
MOD. 40	1530 x 640 x 350	43,5	46,5	1550 x 800	5	247,5
MOD. 50	1530 x 640 x 400	58,5	61,5	1550 x 800	5	322,5
MOD. 60	1530 x 920 x 700	118,5	118,5	1500 x 1000	2	252
MOD. 70	2200 x 920 x 700	184,0	184,0	2200 x 1000	2	383



UTV

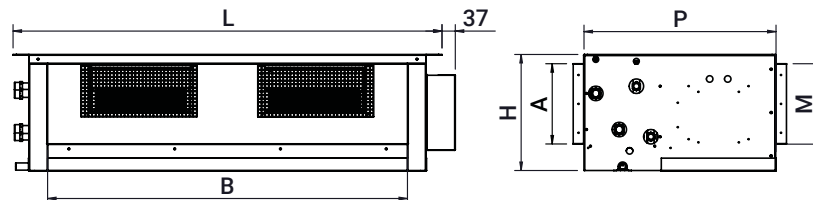
	dimensioni	peso netto	peso lordo	bancale		
	dimension	net weight	gross weight	L x P [mm]	[n.] unità - units	[kg] tot.
	[mm] (AxBxC)	[kg]	[kg]			
MOD. 10	800 x 640 x 340	26,5	28	1300 x 800	10	295
MOD. 20	1210 x 640 x 340	35	38	1200 x 800	5	205
MOD. 30	1310 x 640 x 360	40,5	43,5	1300 x 800	5	232,5
MOD. 40	1530 x 640 x 360	46	49	1550 x 800	4	211
MOD. 50	1530 x 640 x 400	55,5	58,5	1550 x 800	4	249
MOD. 60	1530 x 920 x 750	117	117	1500 x 800	1	132
MOD. 70	2200 x 920 x 750	192	192	2200 x 1000	1	207



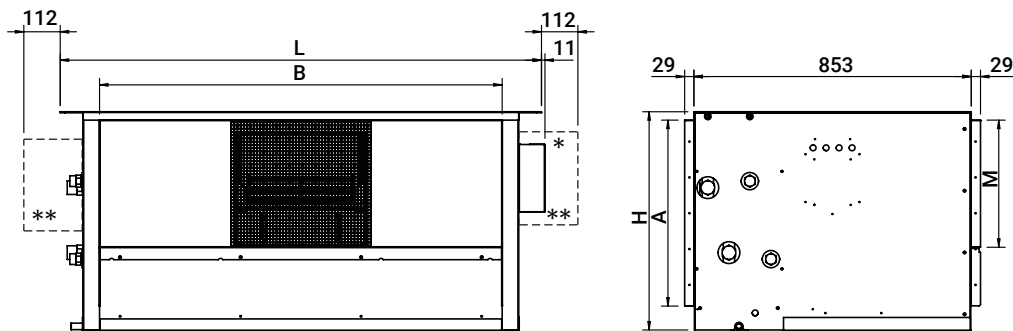
UTC

Unità orizzontale / Horizontal unit Unité horizontale / Horizontales Gerät / Unidad horizontal			10	20	30	40	50	60	70
Ventilatori-Motori / Fans-Motors / Ventilateur-Moteurs Ventilatoren-Motoren / Ventiladores-Motores	No.		1-1	2-1	2-1	2-1	2-1	1-1	2-2
Batteria standard Standard coil	Ranghi / Rows / Rangos Rohrreihen / Rangos	No.	3	3	3	3	3	4	4
Batterie standard Standardwärmetauscher Bateria estándar	Attacchi / Fittings Raccords / Anschlüsse Conexiones	∅	1/2"	3/4"	3/4"	3/4"	1"	1" 1/4	1" 1/2
1/4 Batteria ausiliaria 1/4 Auxiliary coil	Ranghi / Rows / Rangos Rohrreihen / Rangos	No.	1	1	1	1	1	2	2
1/4 Batterie auxiliaire 1/4 Zusatzwärmetauscher 1/4 Bateria auxiliar	Attacchi / Fittings Raccords / Anschlüsse Conexiones	∅	1/2"	1/2"	1/2"	1/2"	1/2"	1"	1" 1/4
Attacco scarico condensa Condensate drain fitting Raccord évacuation condensats Kondensatablaufanschluss Conexión de drenaje de condensado		∅ mm	20	20	20	20	20	20	20
Altezza / Height / Hauteur / Höhe / Altura	H	mm	300	300	325	325	375	675	675
Lunghezza / Length / Longueur / Länge / Longitud	L	mm	740	1090	1190	1430	1430	1480	2170
Profondità / Depth / Profondeur / Tiefe / Profundidad	P	mm	533	533	533	533	533	853	853
	B	mm	548	898	998	1238	1238	1238	1926
	A	mm	197	197	222	222	272	572	572
	M	mm	197	197	222	222	272	392	392
N. x ∅ BAM			2x∅200	3x∅200	3x∅200	4x∅200	4x∅200	2x∅400	4x∅400
Peso netto / Net weight Poids net / Nettogewicht / Peso neto		kg	25	33	38	44	53	121	192

Mod. 10-50



Mod. 60-70

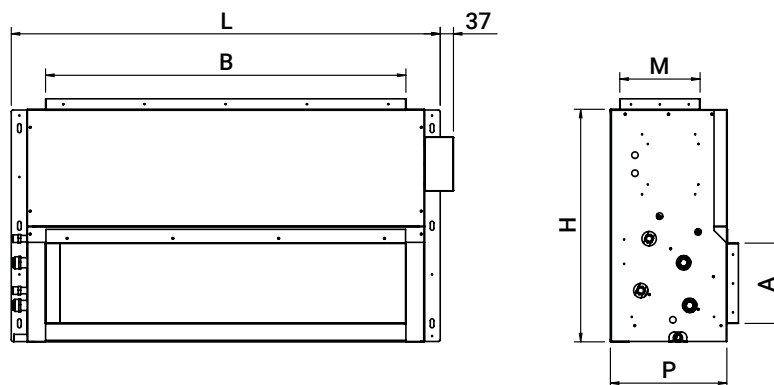


*= UTC 60 ECM
**=UTC 70 ECM

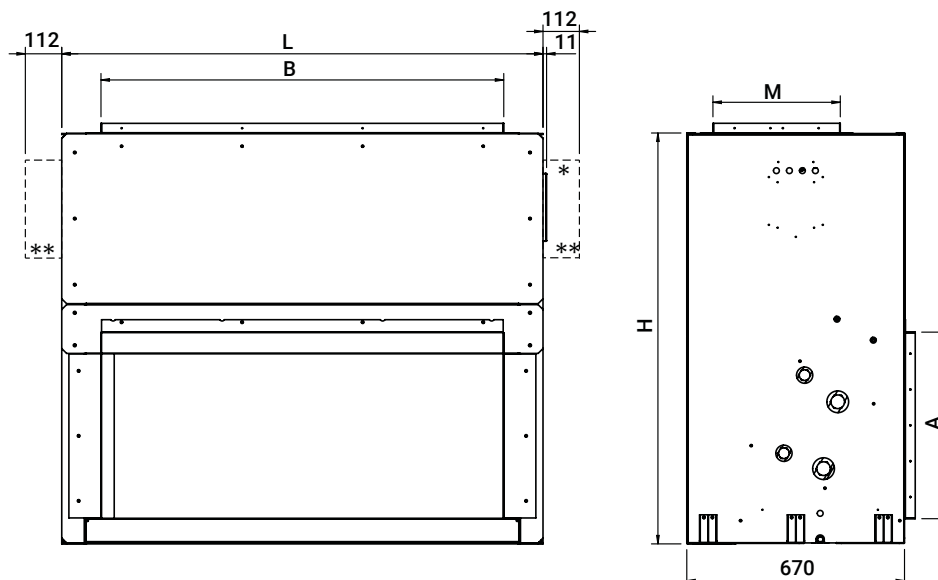
UTV

Unità verticale / Vertical unit Unité verticale / Vertikales Gerät / Unidad vertical		10	20	30	40	50	60	70
Ventilatori-Motori / Fans-Motors / Ventilateur-Moteurs Ventilatoren-Motoren / Ventiladores-Motores	No.	1-1	2-1	2-1	2-1	2-1	1-1	2-2
Batteria standard Standard coil	Ranghi / Rows / Rangs Rohrreihen / Rangos	No.	3	3	3	3	4	4
Batterie standard Standardwärmetauscher Batería estándar	Attacchi / Fittings Raccords / Anschlüsse Conexiones	∅	1/2"	3/4"	3/4"	3/4"	1"	1" 1/4
1/4 Batteria ausiliaria 1/4 Auxiliary coil	Ranghi / Rows / Rangs Rohrreihen / Rangos	No.	1	1	1	1	2	2
1/4 Batterie auxiliaire 1/4 Zusatzwärmetauscher 1/4 Batería auxiliar	Attacchi / Fittings Raccords / Anschlüsse Conexiones	∅	1/2"	1/2"	1/2"	1/2"	1"	1" 1/4
Attacco scarico condensa Condensate drain fitting Raccord évacuation condensats Kondensatablaufanschluss Conexión de drenaje de condensado		∅ mm	20	20	20	20	20	20
Altezza / Height / Hauteur / Höhe / Altura	H mm	573	573	643	643	693	1265	1265
Lunghezza / Length / Longueur / Länge / Longitud	L mm	740	1090	1190	1430	1430	1480	2170
Profondità / Depth / Profondeur / Tiefe / Profundidad	P mm	300	300	325	325	375	672	672
	B mm	548	898	998	1238	1238	1238	1926
	A mm	197	197	222	222	272	572	572
	M mm	197	197	222	222	272	392	392
N. x ∅ BAM		2x∅200	3x∅200	3x∅200	4x∅200	4x∅200	2x∅400	4x∅400
Peso netto / Net weight Poids net / Nettogewicht / Peso neto	kg	27	35	41	46	56	117	192

Mod. 10-50



Mod. 60-70



*= UTC 60 ECM
**=UTC 70 ECM

Compatibility of controls

For the complete specifications of the controls, please refer to the part relating to the controls, available from page 164.

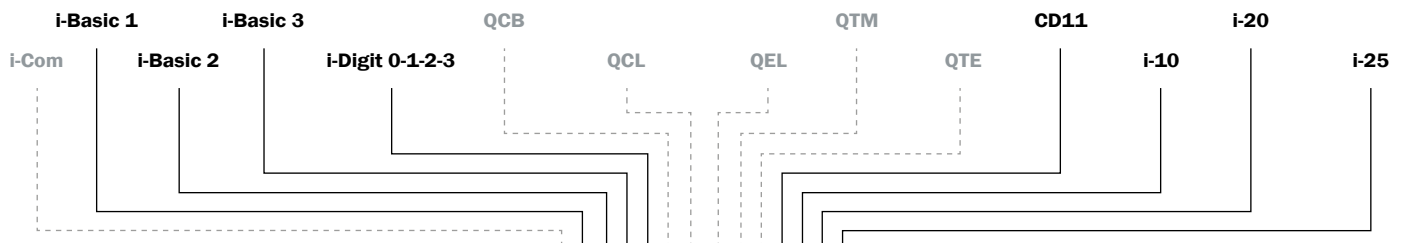
503FA	<ul style="list-style-type: none"> - Termostato elettronico con display LCD - Electronic thermostat with LCD display - Thermostat électronique avec écran LCD - Elektronisches Thermostat mit LCD-Display - Termostato electrónico con pantalla LCD
AGKNFC101 (KNX)	<ul style="list-style-type: none"> - Regolatore per fan coil con protocollo KNX - KNX fan coil controller
CD11	<ul style="list-style-type: none"> - Comando senza regolazione di temperatura - Control without temperature control - Commande sans réglage de température - Regler für Geräte für 2-Leiter oder 4-Leiter-System ohne Temperaturregelung - Control sin regulación de temperatura
COM-B	<ul style="list-style-type: none"> - Commutatore 3 velocità con selettore rotativo BTicino - BTicino rotary selector switch - Commutateur 3 vitesses avec sélecteur rotatif BTicino - Umschalter der 3 Geschwindigkeitsstufen mittels Wahlschalter BTicino - Conmutador de 3 velocidades con selector giratorio b-Ticino
COM-V	<ul style="list-style-type: none"> - Commutatore 3 velocità con selettore a slitta Vimar - Vimar 3-speed slide selector - Commutateur 3 vitesses avec sélecteur à glissière Vimar - Umschalter der 3 Geschwindigkeitsstufen mittels Schiebeselector Vimar - Conmutador de 3 velocidades con selector deslizante Vimar
FAN01	<ul style="list-style-type: none"> - Regolatore per fan coil configurabile con protocollo di comunicazione BACnet - Configurable fan coil controller with BACnet communication protocol - Régulateur pour ventilconvecteur configurable avec protocole de communication BACnet - Regler für Gebläsekonvektor konfigurierbar über Kommunikationsprotokoll BACnet - Controlador fancoil configurable con protocolo de comunicación BACnet
i-10	<ul style="list-style-type: none"> - Termostato elettronico analogico base (unità a 2 e 4 tubi) - Analog electronic thermostat (2 and 4 pipe units) - Thermostat électronique analogique base (unité à 2 et 4 tubes) - Analoger elektronischer Basisthermostat für Geräte mit 2-Leiter- oder 4-Leiter-System - Termostato electrónico analógico base (unidades de 2 y 4 tubos)
i-20	<ul style="list-style-type: none"> - Termostato elettronico analogico (unità a 2 tubi) - Analog electronic thermostat (2 pipe units) - Thermostat électronique analogique (unité à 2 tubes) - Analoger elektronischer Thermostat für Geräte mit 2-Leiter-System - Termostato electrónico analógico (unidad de 2 tubos)
i-25	<ul style="list-style-type: none"> - Termostato elettronico analogico (unità a 4 tubi) - Analog electronic thermostat (4 pipe units) - Thermostat électronique analogique (unité à 4 tubes) - Analoger elektronischer Thermostat für Geräte mit 4-Leiter-System - Termostato electrónico analógico (unidad de 4 tubos)
i-30	<ul style="list-style-type: none"> - Termostato elettronico programmabile con display LCD - Programmable electronic thermostat with LCD display - Thermostat électronique programmable avec écran LCD - Programmierbarer elektronischer Thermostat für Gebläsekonvektoren mit 2/4-Leiter-System, mit LCD-Display - Termostato electrónico programable con pantalla LCD
i-50	<ul style="list-style-type: none"> - Termostato elettronico programmabile con display LCD - Programmable electronic thermostat with LCD display - Thermostat électronique programmable avec écran LCD - Programmierbarer elektronischer Thermostat für Gebläsekonvektoren mit 2/4-Leiter-System, mit LCD-Display - Termostato electrónico programable con pantalla LCD
i-60	<ul style="list-style-type: none"> - Termostato elettronico touch con connessione WiFi per gestione remota - Touch fan coil thermostat with WiFi connection - Thermostat électronique tactile avec connexion WiFi pour gestion à distance - Elektronischer Touch-Thermostat mit WiFi-Anbindung für Fernüberwachung - Termostato electrónico Touch con conexión WiFi para gestión remota
i-70	<ul style="list-style-type: none"> - Termostato elettronico touch configurabile, con protocollo di comunicazione Modbus/BACnet (unità a 2 e 4 tubi) - Touch programmable electronic thermostat with Modbus/BACnet protocol communication (unit 2 and 4 pipe system) - Thermostat électronique tactile configurable, avec protocole de communication Modbus/BACnet (unité à 2 et 4 tubes) - Konfigurierbarer elektronischer Touch-Thermostat, mit Modbus/BACnet-Kommunikation mit 2/4-Leiter-System - Termostato electrónico Touch configurable, con protocolo de comunicación Modbus / Bacnet (unidades de 2 y 4 tubos)
i-Basic 1	<ul style="list-style-type: none"> - Termostato elettronico analogico base - Analog base electronic thermostat - Thermostat électronique analogique base - Analoger elektronischer Basisthermostat für Geräte mit 2-Leiter oder 4-Leiter-System - Termostato electrónico analógico base
i-Basic 2	<ul style="list-style-type: none"> - Termostato elettronico analogico - Analog electronic thermostat - Thermostat électronique analogique - Analoger elektronischer Thermostat für Geräte mit 2-Leiter oder 4-Leiter-System - Termostato electrónico analógico

i-Basic 3	<ul style="list-style-type: none"> - Termostato elettronico analogico con programmazione semplificata a DIP-SWITCH - Analog electronic thermostat with simplified DIP-SWITCH programming - Thermostat électronique analogique avec programmation simplifiée à DIP-SWITCH - Analoger elektronischer Thermostat mit vereinfachter DIP-Schalter Programmierung - Termostato electrónico analógico con programación simplificada DIP-SWITCH
i-Com	<ul style="list-style-type: none"> - Comando senza regolazione di temperatura - Base switch without temperature control - Commande sans réglage de température - Regler für Geräte für 2-Leiter oder 4-Leiter-System ohne Temperaturregelung - Control sin regulación de temperatura
i-Digit 0-1-2-3	<ul style="list-style-type: none"> - Termostato elettronico programmabile con display LCD - Programmable electronic thermostat with LCD display - Thermostat électronique programmable avec écran LCD - Elektronischer Thermostat für Gebläsekonvektoren mit 2-Leiter oder 4-Leiter-System, mit LCD-Display - Termostato electrónico programable con pantalla LCD
IR-C	<ul style="list-style-type: none"> - Telecomando a raggi infrarossi (per cassette e sistemi TRI/F1 2.0 + S-MOD) - Infrared remote control (for cassette and TRI/F1 2.0 + S-MOD systems) - Télécommande à infrarouges (pour cassette et TRI/F1 2.0 + S-MOD systèmes) - Infrarot-Fernbedienung (für Kassettengeräte und TRI/F1 2.0 + S-MOD Systeme) - Control remoto IR (para fancoil de tipo cassette e sistemas TRI/F1 2.0 + S-MOD)
IR-T	<ul style="list-style-type: none"> - Telecomando a raggi infrarossi (per unità a parete) - Infrared remote control (for wall unit) - Télécommande à infrarouges (pour unité murale) - Infrarot-Fernbedienung für wandmontierte Geräte - Control remoto IR (para unidad de pared)
QCB	<ul style="list-style-type: none"> - Quadro comando base - Base control panel - Panneau de contrôle base - Basisbediengerät - Panel de control base
QCL	<ul style="list-style-type: none"> - Quadro comando base in lamiera - Sheet base control panel - Panneau de contrôle base en tôle - Basisbediengerät aus Metall - Panel de control base en chapa
QEL	<ul style="list-style-type: none"> - Quadro comando base in lamiera - Sheet base control panel - Panneau de contrôle base en tôle - Basisbediengerät aus Metall - Panel de control base en chapa
QTE	<ul style="list-style-type: none"> - Quadro comando base con termostato ambiente elettronico - Base control panel with electronic room thermostat - Panneau de contrôle base avec thermostat ambient électronique - Basisbediengerät mit elektronischem Raumthermostat - Panel de control base con termostato ambiente electrónico
QTM	<ul style="list-style-type: none"> - Quadro comando base con termostato ambiente elettromeccanico (a bulbo) - Base control panel with room electromechanical temperature bulb thermostat - Panneau de contrôle base avec thermostat ambient électromécanique (à bulbe) - Basischalttafel mit elektromechanischem Raumtempertur-Thermostat (mit Stabfühler) - Panel de control base con termostato ambiente electromecánico (a bulbo)
RWIECM 1-2	<ul style="list-style-type: none"> - Interfaccia utente a parete - Wall user interface - Interface utilisateur mural - Wandmontiertes Bediengerät - Interfaz de usuario de pared
S-MOD	<ul style="list-style-type: none"> - Sistema di supervisione - Supervision system - Système de supervision - Überwachungssystem - Sistema de supervisión
TRI/F1 2.0	<ul style="list-style-type: none"> - Controllo con telecomando IR o interfaccia a muro con protocollo di comunicazione Modbus - Infrared remote controller or wall controller with Modbus communication protocol - Contrôle avec télécommande IR ou interface mural avec protocole de communication Modbus - Steuerung mittels Infrarot-Fernbedienung oder wandmontiertes Bedienfeld mit Modbus-Kommunikationsprotokoll - Control con mando IR o interfaz de pared con protocolo de comunicación Modbus

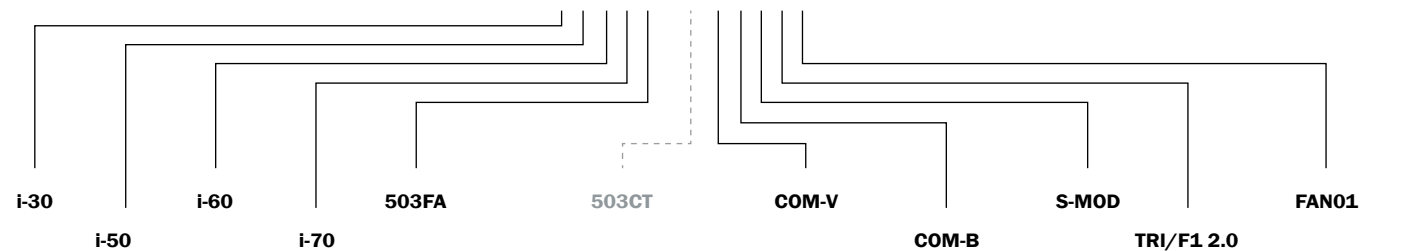
Compatibility of controls

Scheda di potenza per controllo a 3 velocità
 Power chart for 3-speed control
 Fiche de puissance pour contrôle à 3 vitesses
 Leistungsplatine zur Steuerung mit 3 Geschwindigkeiten
 Tarjeta de alimentación para el control de 3 velocidades

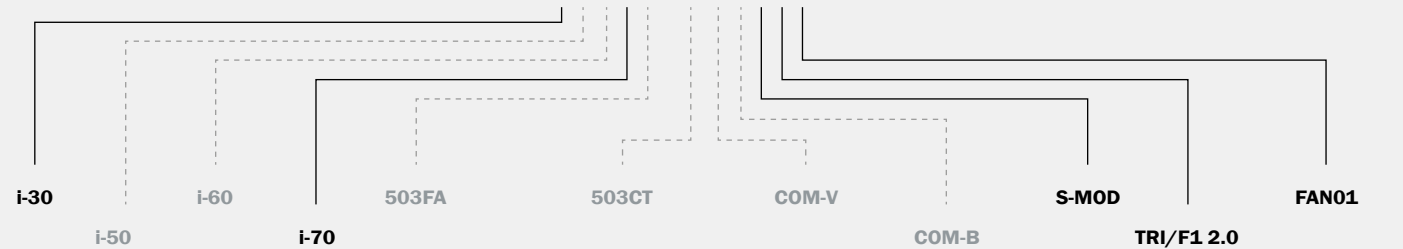
	i-Com	i-Basic 1	i-Basic 2	i-Basic 3	i-Digit 0-1-2-3	TRI/F1 2.0	CD11	i-10	i-20	i-25	i-30	i-50	i-60	i-70	503FA	S-MOD	FAN01
Mod. 10	-	-	○	○	○	○	-	-	-	-	○	○	○	○	○	○	○
Mod. 20	-	-	○	○	○	○	-	-	-	-	○	○	○	○	○	○	○
Mod. 30	-	○	○	○	○	○	-	-	-	-	○	○	○	○	○	○	○
Mod. 40	-	○	○	○	○	○	-	-	-	-	○	○	○	○	○	○	○
Mod. 50	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Mod. 60	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Mod. 70	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●



UTC/UTV



UTC/UTV-ECM

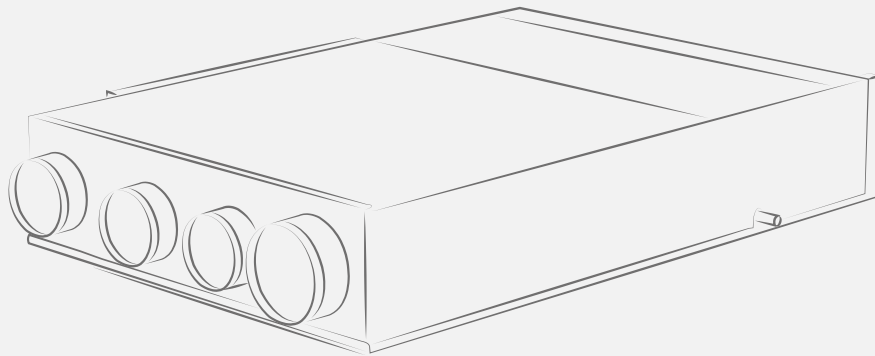


- Compatible
Compatible
Compatible
Kompatibel
Compatible
- - - - - Non compatible
Not compatible
Non compatible
Nicht kompatibel
NO compatible
- Non necessaria
Not necessary
Non nécessaire
Nicht erforderlich
No Requerido
- Necessaria (inclusa di serie)
Necessary (included as standard)
Nécessaire (comprise de série)
Erforderlich (serienmäßig inbegriffen)
Requerido (incluido de serie)
- Necessaria (non inclusa)
Necessary (not included)
Nécessaire (non comprise)
Erforderlich (nicht inbegriffen)
Requerido (no incluido)

UTC/UTV
UTC/UTV-ECM

DOUBLE-ECM

Fan coil unit with integrated recovery unit



DOUBLE-ECM

New concept of comfort and efficiency

❄️ 2.6 ÷ 4.7 kW
cooling

☀️ 2.2 ÷ 4.6 kW
heating

🌀 300 - 700 m³/h
air flow

↻ 83 - 88 %
thermal efficiency

DOUBLE-ECM



Structure:

galvanized or painted sheet (optional) thickness 10/10, insulated in all parts in indirect contact with the heat transfer fluid. Condensate drain pan in galvanized insulated sheet, complete with connections for condensate drainage.

Pre-drilled sides for practical attachment of accessories.

Wall anchoring slots for easy fixing and leveling of the appliance. Wide range of accessories available as plenum with bayonet connection and circular fittings.

The unit is supplied as standard with hydraulic connections on the left and terminal block on the right.



Recovery unit:

static high-efficiency polystyrene recuperator, complete with By-pass system.



Air filter:

filtration system composed by air filters class F7*/EU7** for primary air, M5*/EU5** for the recirculation airflow, and G2 * / EU2 ** for expulsion air to safeguard the recuperator. (* according to EN779 / ** according to Eurovent)



Fan section:

double-inlet centrifugal fans type ECM brushless with statically and dynamically balanced horizontally-oriented aluminium impellers, directly coupled to the fans and cushioned with flexible mountings to ensure low noise. Thermal recovery part equipped with two ECM plug-fan type, as a guarantee of an excellent reduction of energy.



Coils:

copper tube coil with aluminum fins with continuous pack blocked on the tubes by mechanical expansion. Brass manifolds equipped with $\varnothing 1/2'' \sim 3/4''$ female gas connections and easily accessible air vent valves. Hydraulic connections positioned on the left (front view) on request can be supplied on the right. The coils are reversible, so the connection side can also be reversed on site. The heat exchange coil is not suitable for use in corrosive atmospheres.

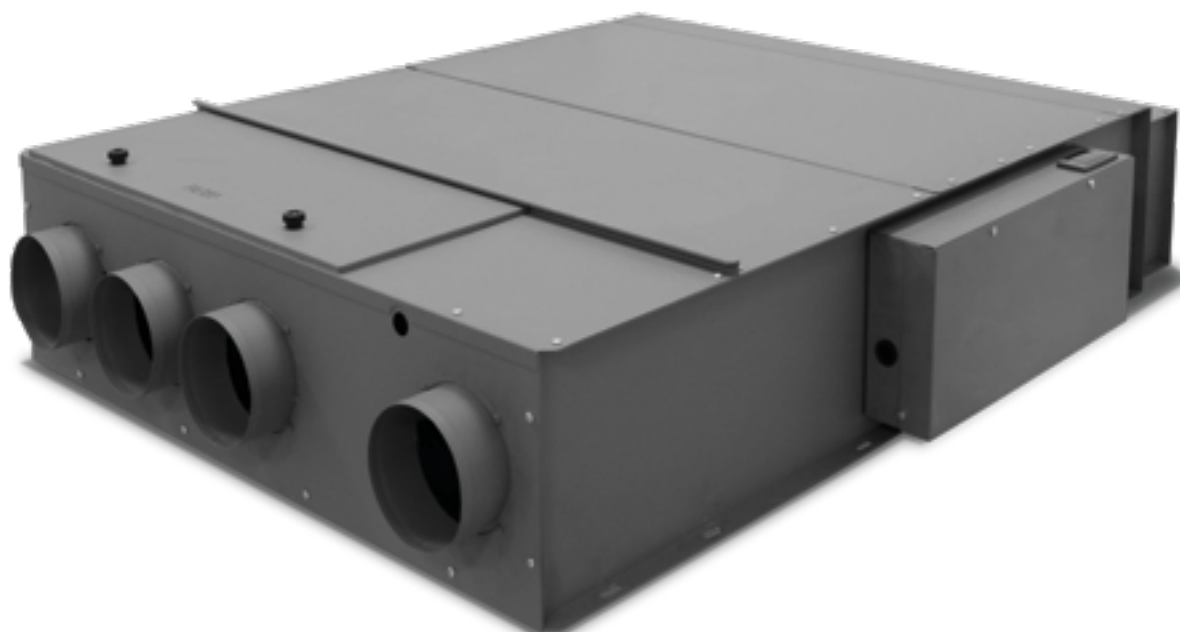
With the advent of avant-garde building technologies, the newly designed housing units are increasingly thermally insulated with direct consequence of limited thermal loads needed to achieve the desired comfort. At the same time, thanks to the absence of dispersions, constant regeneration of the air through a controlled mechanical ventilation system is essential to guarantee the appropriate air quality in the environments.

Nowadays moreover, the use of living spaces reflects new frenetic and unpredictable lifestyles. A flexible system is therefore a winning choice, allowing optimal management of environmental comfort based on real needs, with extremely rapid response times, without any waste.

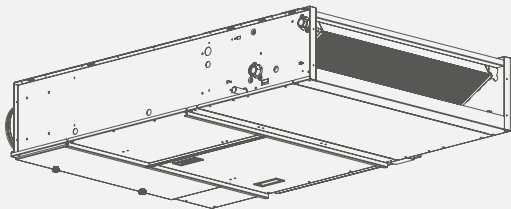
The ideal solution to meet all these needs in a simple, practical and economical way is the newly developed DOUBLE-ECM unit, which in just 238 mm thick encloses a high-efficiency air conditioning system that can heat, cool (with relative dehumidification), filter and renew the air with integrated recovery, also through the free-cooling and free-heating functions. All this through a single extremely compact unit, able to completely replace traditional systems in residential / commercial environments with surfaces up to about 120 square meters.

The range consists of 2 models of 300 m³/h o 700 m³/h, in 2 configurations, horizontal and vertical, with thermal outputs from 2,2 a 4,6 kW and cooling capacities from 2,6 a 4,7 kW.

Versions	
DOUBLE-ECM 300-H	300 m ³ /h for horizontal installation
DOUBLE-ECM 300-V	300 m ³ /h for vertical installation
DOUBLE-ECM 700-H	700 m ³ /h for horizontal installation
DOUBLE-ECM 700-V	700 m ³ /h for vertical installation

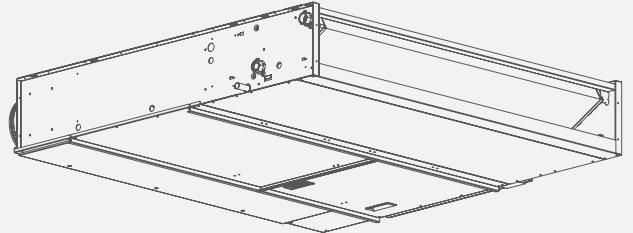


300 - H



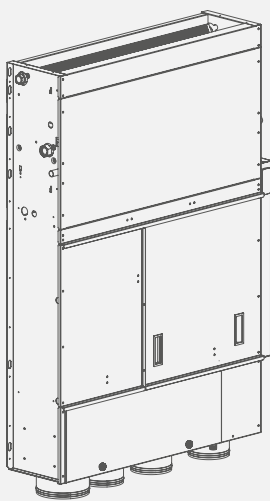
Nominal airflow 300 m³/h
Recovery airflow 80-150 m³/h
Horizontal installation

700 - H



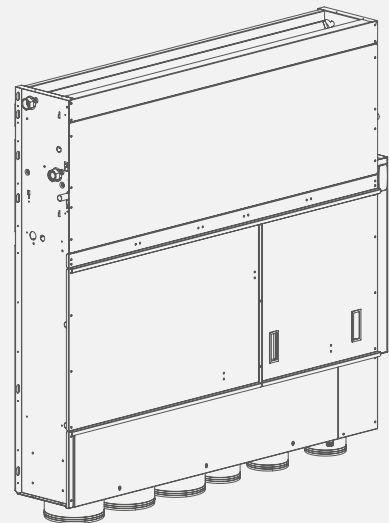
Nominal airflow 700 m³/h
Recovery airflow 80-150 m³/h
Horizontal installation

300 - V



Nominal airflow 300 m³/h
Recovery airflow 80-150 m³/h
Vertical installation

700 - V



Nominal airflow 700 m³/h
Recovery airflow 80-150 m³/h
Vertical installation

i-Plus



On-board unit interface



Interface for wall installation

The i-Plus controller has been developed specifically for controlling the DOUBLE unit to automate all its functionality and offer a perfect control of comfort conditions.

i-Plus manages both room temperature control and ambient air quality control.

The user sets the desired temperature value and i-Plus performs the operations automatically by processing the temperature and air quality probes (or humidity) and acting suitably on the air handling unit, renewal, free cooling/free heating damper, water intake valve.

However, if you prefer, you can manually define engine rotation speeds.

i-Plus integrates the chronothermostat function (time scheduler) and the possibility of remote on-off and remote change season.

i-Plus can be connected via MODbus protocol to a centralized system to be remotely programmed and supervised. You can connect to the i-Plus controller the remote keyboard to position it where the user prefers.

Power supply 12/24 Vac; 50/60Hz through transformer.

i-Eco



The i-Eco controller includes a programmable electronic thermostat model i-30 with LCD display able to manage the air-treatment unit (fan coil unit).

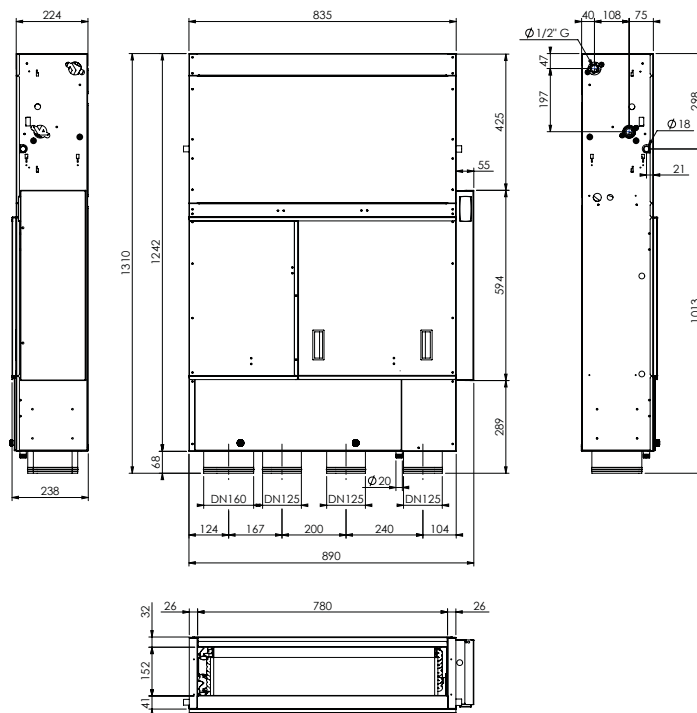
N.B. if used with 24 Vac valves, the thermostat must be powered through a 230/24 Vac transformer.

		300	700				
Portata aria nominale / Nominal airflow Débit d'air nominal / Nennluftstrom / Caudal de aire nominal	m ³ /h	300	700				
Pressione statica / Static pressure Pression statique / Statischer Druck / Presión estática	Pa	50	50				
❄️ RECUPERO TERMICO INVERNO / WINTER HEAT RECOVERY RÉCUPÉRATION THERMIQUE EN HIVER / WÄRMERÜCKGEWINNUNG IM WINTER / RECUPERACIÓN TÉRMICA INVIERNO							
Portata aria / Air flow Débit d'air / Luftstrom / Caudal de aire	(1) m ³ /h	80	120	150	80	120	150
Efficienza recupero / Recovery efficiency Efficacité de récupération / Rückgewinnungseffizienz / Eficiencia de recuperación	(1) %	88,5	85,4	83,5	88,5	85,4	83,5
Potenza termica recupero / Recovery heating capacity Puissance thermique récupération / Wärmerückgewinnungsleistung / Potencia térmica de recuperación	(1) kW	628	922	1134	628	922	1134
Temperatura uscita aria / Air outlet temperature Température de sortie d'air / Luftaustrittstemperatur / Temperatura del aire de salida	(1) °C	18,23	17,73	17,38	18,23	17,73	17,38
☀️ RECUPERO TERMICO ESTATE / SUMMER HEAT RECOVERY RÉCUPÉRATION THERMIQUE D'ÉTÉ / WÄRMERÜCKGEWINNUNG IM SOMMER / RECUPERACIÓN TÉRMICA DE VERANO							
Portata aria / Air flow Débit d'air / Luftstrom / Caudal de aire	(2) m ³ /h	80	120	150	80	120	150
Efficienza recupero / Recovery efficiency Efficacité de récupération / Rückgewinnungseffizienz / Eficiencia de recuperación	(2) %	88,7	85,6	83,5	88,7	85,6	83,5
Potenza termica recupero / Recovery heating capacity Puissance thermique récupération / Wärmerückgewinnungsleistung / Potencia térmica de recuperación	(2) kW	141	204	249	141	204	249
Temperatura uscita aria / Air outlet temperature Température de sortie d'air / Luftaustrittstemperatur / Temperatura del aire de salida	(2) °C	27,68	27,86	27,99	27,68	27,86	27,99
VENTILATORE / FAN VENTILATEUR / VENTILATOR / VENTILADOR							
Ventilatore centrifugo con motore Brushless ECM per unità di trattamento aria / Centrifugal fan with ECM Brushless motor for air treatment unit / Ventilateur centrifuge avec moteur ECM Brushless pour unités de traitement air / Radialventilator mit bürstenlosem ECM/Motor für Lüftungsgeräte / Ventilador centrífugo con motor ECM sin escobillas para unidades de tratamiento de aire							
Ventilatore radiale con motore Brushless ECM per unità di recupero calore / Radial fan with ECM Brushless motor for heat recovery unit / ventilateur radial avec moteur Brushless ECM pour les unités de récupération de chaleur / Radialventilator mit bürstenlosem ECM/Motor für Wärmerückgewinnungsgerät / Ventilador axial con motor ECM sin escobillas para recuperador de calor							
BATTERIA AD ACQUA / WATER COIL BATTERIE À EAU / WASSERWÄRMETAUSCHER / BATERÍA DE AGUA							
Ranghi / Rows Rangs / Rohrreihen / Rangos	kW	3	3				
Potenza termica totale / Total heating capacity Puissance thermique totale / Gesamtheizleistung / Potencia térmica total	(3) kW	2242	4571				
Temperatura uscita aria / Air outlet temperature Température de sortie d'air / Luftaustrittstemperatur / Temperatura del aire de salida	°C	41,2	38,9				
Perdita di carico lato acqua / Water pressure drop Pertes charge côté eau / Wasserseitiger Druckverlust / Pérdida de carga lado agua	kPa	8,4	10,3				
Portata acqua nominale / Nominal water flow Débit d'eau nominal / Nennwasserdurchfluss / Caudal nominal de agua	l/h	390	796				
Potenza frigorifera totale / Total cooling capacity Puissance frigorifique totale / Kälteleistung gesamt / Potencia frigorífica total	(4) kW	2618	4650				
Potenza frigorifera sensibile / Sensible cooling capacity Puissance frigorifique sensible / Sensible Kälteleistung / Potencia frigorífica total sensible	kW	1471	3068				
Temperatura uscita aria / Air outlet temperature Température de sortie d'air / Luftaustrittstemperatur / Temperatura del aire de salida	°C	12,6	14				
Perdita di carico lato acqua / Water pressure drop Pertes charge côté eau / Wasserseitiger Druckverlust / Pérdida de carga lado agua	kPa	13	12,6				
Portata acqua nominale / Nominal water flow Débit d'eau nominal / Nennwasserdurchfluss / Caudal nominal de agua	l/h	449	798				
ASSORBIMENTI ELETRICI / ELECTRICAL ABSORPTIONS CONSOMMATION ÉLECTRIQUE / STROMVERBRAUCH / ABSORCIÓN ELÉCTRICA							
Alimentazione elettrica / Power supply Alimentation électrique / Stromversorgung / Fuente de alimentación	-	230V / 50Hz	230V / 50Hz				
Massima potenza assorbita / Max absorbed power Puissance maximale / Maximale Leistungsaufnahme / Potencia máxima absorbida	kW	260	340				
Massima corrente assorbita / Max absorbed current Courant maximal admissible / Stromaufnahme / Corriente máxima absorbida	A	1,15	1,48				
LIMITI DI FUNZIONAMENTO / OPERATING LIMITS LIMITES DE FONCTIONNEMENT / EINSATZGRENZEN / LIMITES DE FONCONAMIENTO							
Temperatura aria esterna / Outdoor air temperature Température de l'air extérieur / Außenlufttemperatur / Temperatura del aire exterior	°C	min (-) max (+) 45)					
Umidità aria esterna / Outdoor humidity Humidité air extérieur / Außenluftfeuchtigkeit / Humedad del aire exterior	%	min 10 - max 75					
Temperatura aria interna / Indoor air temperature Température de l'air intérieur / Raumlufttemperatur / Temperatura del aire interior	°C	min 15 - max 30					
Umidità aria interna / Indoor humidity Humidité air intérieur / Raumluftfeuchtigkeit / Humedad del aire interior	%	min 10 - max 75					
Massima pressione di esercizio acqua / Max water pressure Pression maximum d'utilisation d'eau / maximaler Wasserdruck / Presión de agua máxima de trabajo	Bar	8					
Massima temp. esercizio acqua / Max inlet water temperature Temp. maximum d'utilisation d'eau / maximale Wassereintrittstemperatur / Temperatura de agua máxima de trabajo	°C	70					
(1)	Temperatura aria di rinnovo / Air temperature renewal / Température de l'air neuf / Frischlufttemperatur / Temperatura del aire de renovación	-5°C					
	Temperatura aria espulsione / Exhaust air temperature / Température de l'air extérieur / Ablufttemperatur / Temperatura del aire de expulsión	20°C					
(2)	Temperatura aria di rinnovo / Air temperature renewal / Température de l'air neuf / Frischlufttemperatur / Temperatura del aire de renovación	33°C 50%					
	Temperatura aria espulsione / Exhaust air temperature / Température de l'air extérieur / Ablufttemperatur / Temperatura del aire de expulsión	27°C 50%					
(3)	Temp. aria esterna/Acqua - Outside temp. air/Temp. water - Temp. air extérieur/Eau - Temp. Aussenluft/Wasser - Temp. aire exterior/agua	-5°C / 45-40°C					
(4)	Temp. aria esterna/Acqua - Outside temp. air/Temp. water - Temp. air extérieur/Eau - Temp. Aussenluft/Wasser - Temp. aire exterior/agua	33°C 50% / 7-12°C					

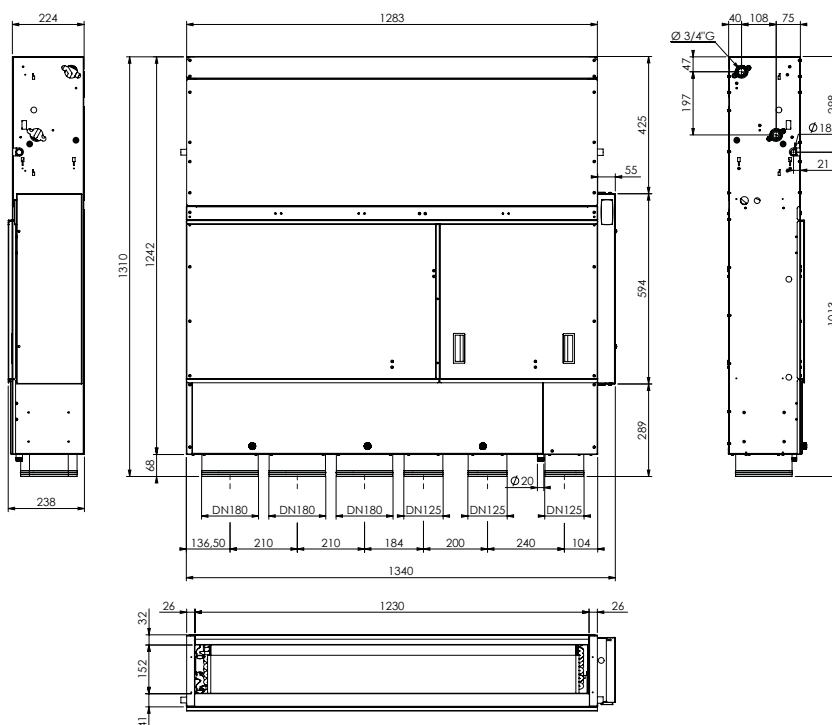
Dimensions

			300	700
Lunghezza / Length / Longueur / Lange / Longitud	L	mm	890	1340
Altezza / Height / Hauteur / Hohe / Altura	H	mm	1310	1310
Profondit / Depth / Profondeur / Tiefe / Profundidad	P	mm	238	238
Scarico recuperatore / Cross-flow recovery drain Evacuation - rcuprateur / Kreuzstromplattentauscher / Escape recuperador	R	mm	20	20
Scarico trattamento aria / Air treatment drain Evacuation - traitement de l'air / Entluftungsventil / Escape de tratamiento de aire	F	mm	18	18

Mod. 300



Mod. 700



DOUBLE-ECM

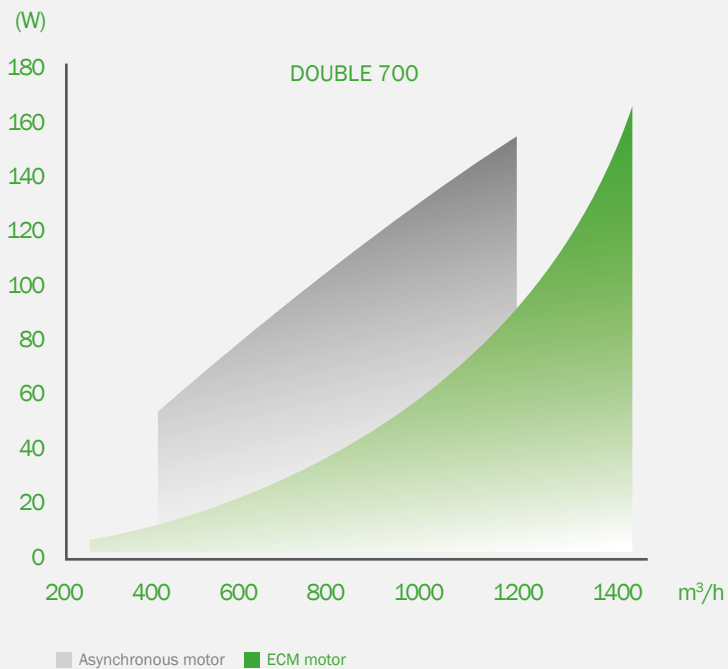
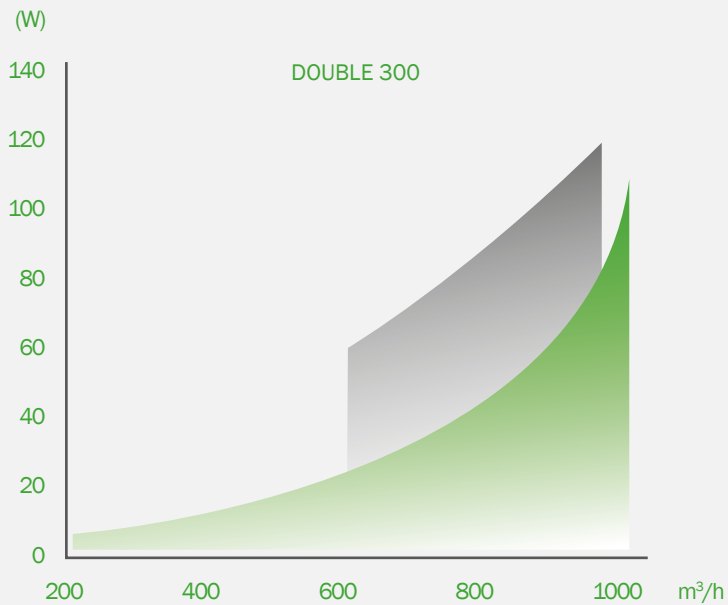


ECM motors, not only as a savings guarantee

The DOUBLE system is equipped with brushless ECM motors of the latest generation, as a guarantee of a perfect combination of high performance, excellent reduction of energy consumption and low ambient noise emission.

Fundamental plus of these innovative fan groups is the capacity to modulate in a precise and constant way the air flow based on actual working loads required for the benefit of a reduction of consumption, absence of unnecessary waste and greater psychological and physical comfort in an environment guaranteed by greater management sensitivity and low noise thanks to the intelligent management of air flow.

The diagram shows the comparison between the absorption of asynchronous centrifugal motor and brushless centrifugal ECM motor with the same air flow.



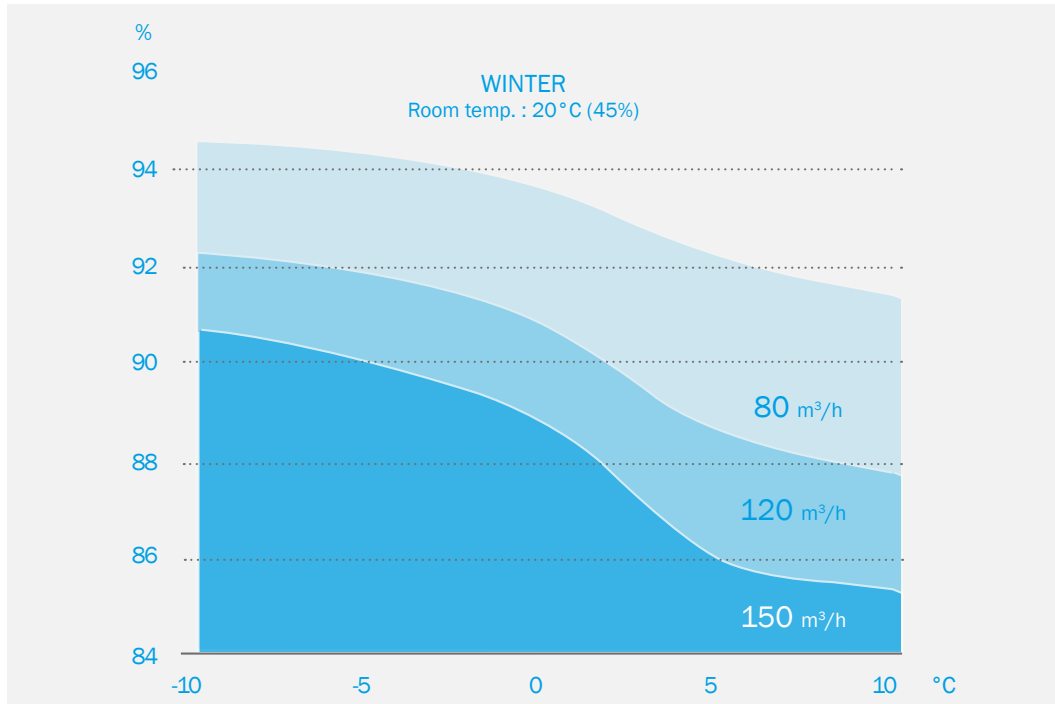
DOUBLE-ECM



Heat recovery efficiency

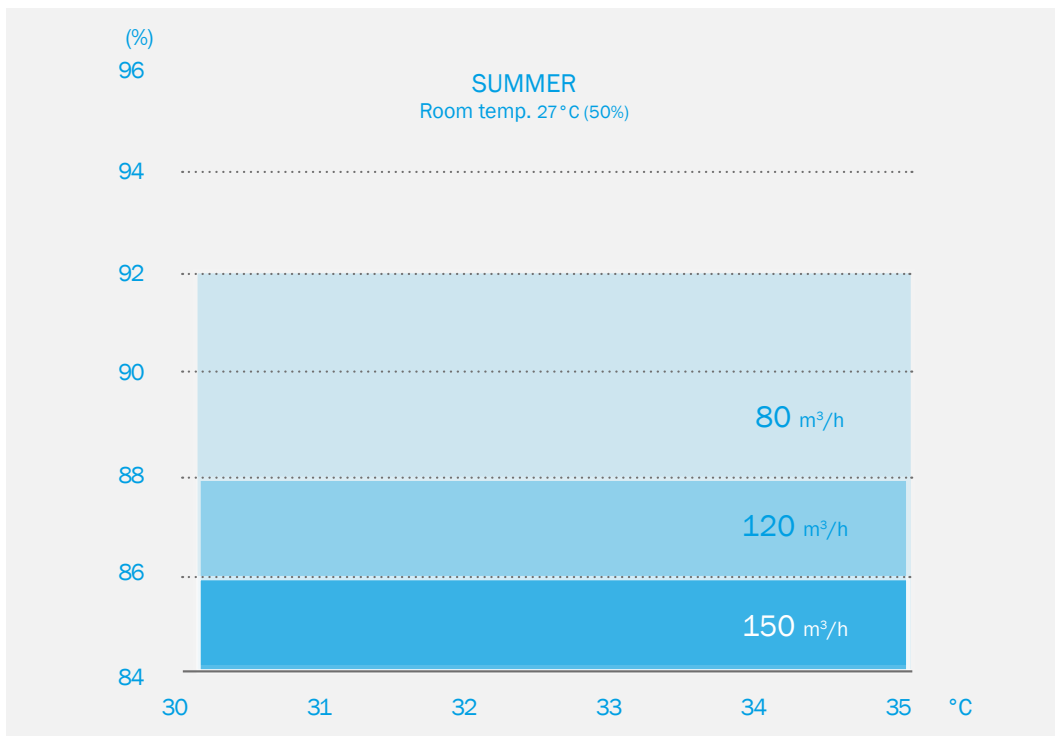
WINTER

Representation of the degree of efficiency of the plate heat exchanger, with external temperatures between -10 °C and +10 °C; relative humidity of 70%.



SUMMER

Representation of the degree of efficiency of the plate heat exchanger, with external temperatures between 30°C and 35°C; relative humidity of 50%.



Note: for temperatures below 0°C is important to use a defrosting system, managed by the control unit.

Cooling mode

1 RECIRCULATION AIR INLET

The air is drawn from rooms less predisposed to generate stale air like living room and/or bedroom and, after a suitable filtration, is allowed to flow to the part used for the treatment

2 STALE AIR INLET

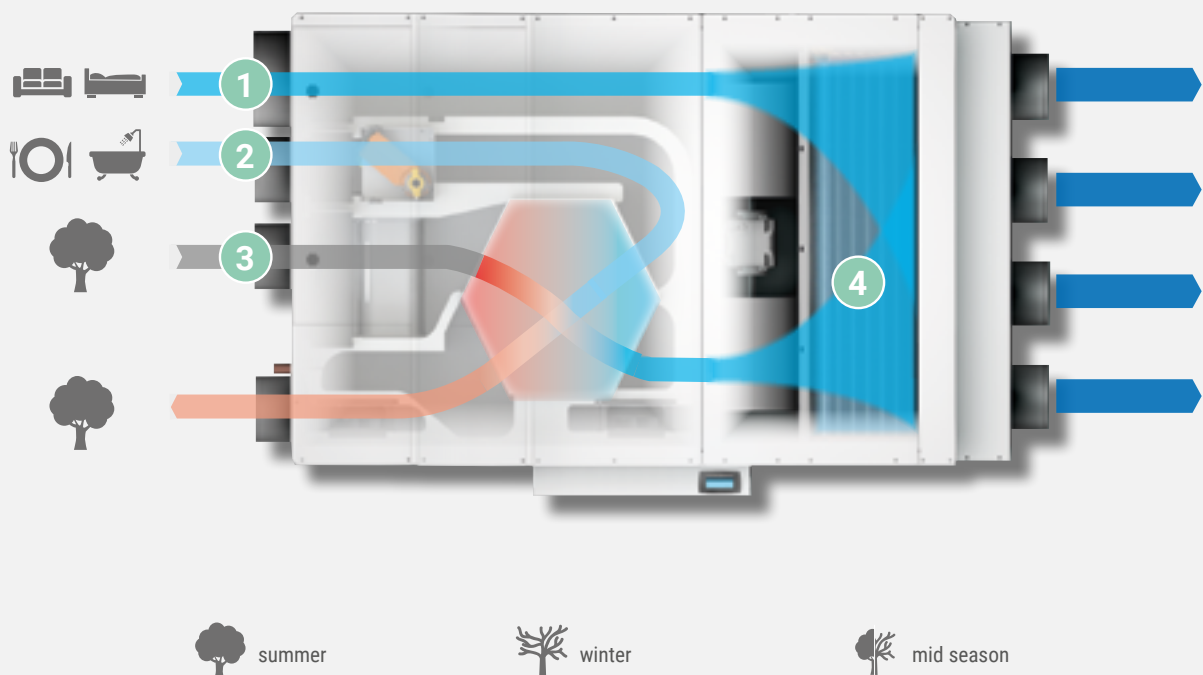
The stale air, usually taken from the kitchens and bathrooms, before being ejected is made to flow through the plate heat exchanger to recover up to 92% of the thermal energy that otherwise would be unnecessarily wasted.

3 EXTERNAL AIR INLET

The hot and moist air, taken from the outside and used for the renewal is inserted into the unit and, after a suitable filtration to remove contaminants, is conveyed through the heat recovery assimilating up to 92% of the thermal energy transferred from the outgoing cold stale air, and then flow to the part used for the treatment. If the external conditions are in line with the required internal load, the primary air through the By-pass function that is automatically activated with the dedicated control, will be entered directly into the room after a suitable filtration.

4 TREATMENT

The air mix thus obtained, composed partly of recirculated air and partly by pre-treated new fresh air, it is now cooled by the coil according to the exact requirements of comfort selected by the user, before to be re-entered in the environments through dedicated multiplexed distribution network



Heating mode

1 RECIRCULATION AIR INLET

The air is drawn from rooms less predisposed to generate stale air like living room and/or bedroom and, after a suitable filtration, is allowed to flow to the part used for the treatment.

2 STALE AIR INLET

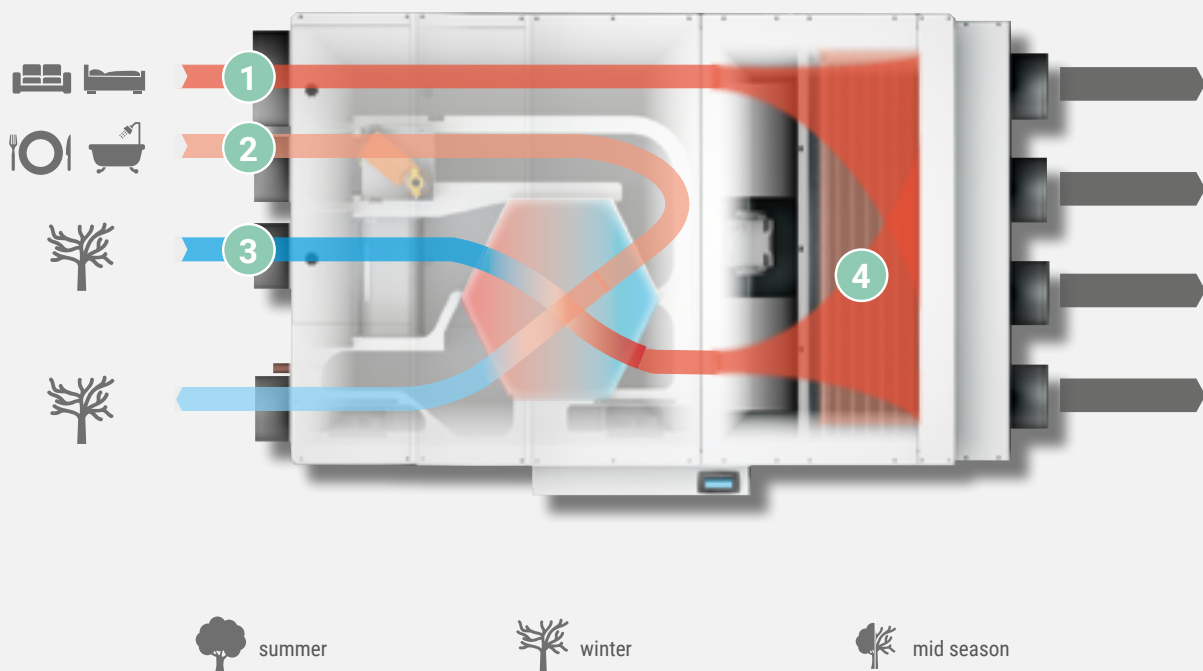
The stale air, usually taken from the kitchens and bathrooms, before being ejected is made to flow through the plate heat exchanger to recover up to 94% of the thermal energy that otherwise would be unnecessarily wasted.

3 EXTERNAL AIR INLET

The cold and moist air, taken from the outside and used for the renewal is inserted into the unit and, after a suitable filtration to remove contaminants, is conveyed through the heat recovery assimilating up to 94% of the thermal energy transferred from the outgoing warm stale air, and then flow to the part used for the treatment. If the external conditions are in line with the required internal load, the primary air through the By-pass function that is automatically activated with the dedicated control, will be entered directly into the room after a suitable filtration.

4 TREATMENT

The air mix thus obtained, composed partly of warm recirculated air and partly by pre-treated new fresh air, is now heated by the coil according to the exact requirements of comfort selected by the user, before to be re-entered in the environments through dedicated multiplexed distribution network.



FC Free cooling mode

1 RECIRCULATION AIR INLET

The air is drawn from rooms less predisposed to generate stale air like living room and/or bedroom and, after a suitable filtration, is allowed to flow to the part used for the treatment.

2 STALE AIR INLET

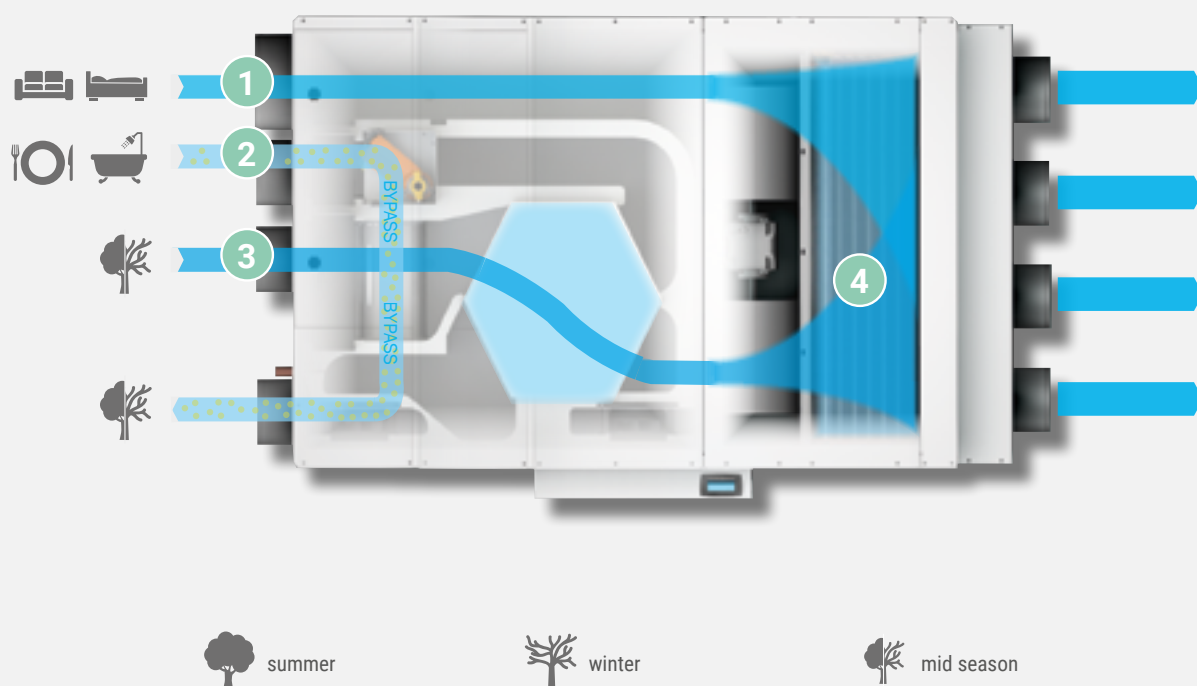
The stale air, usually taken from the kitchens and bathrooms, is directly ejected outside of the building.

3 EXTERNAL AIR INLET

If the cool external conditions are in line with the required internal load, the primary air through the By-pass function that is automatically activated with the dedicated control, will be entered directly into the room after a suitable filtration.

4 TREATMENT (IF NEEDED ONLY)

The air mix thus obtained, composed partly of recirculated air and partly by fresh air sourced in free cooling, it is now further cooled only if needed by the coil according to the exact requirements of comfort selected by the user, before to be re-entered in the environments through dedicated multiplexed distribution network.



FH Free heating mode

1 RECIRCULATION AIR INLET

The air is drawn from rooms less predisposed to generate stale air like living room and/or bedroom and, after a suitable filtration, is allowed to flow to the part used for the treatment.

2 STALE AIR INLET

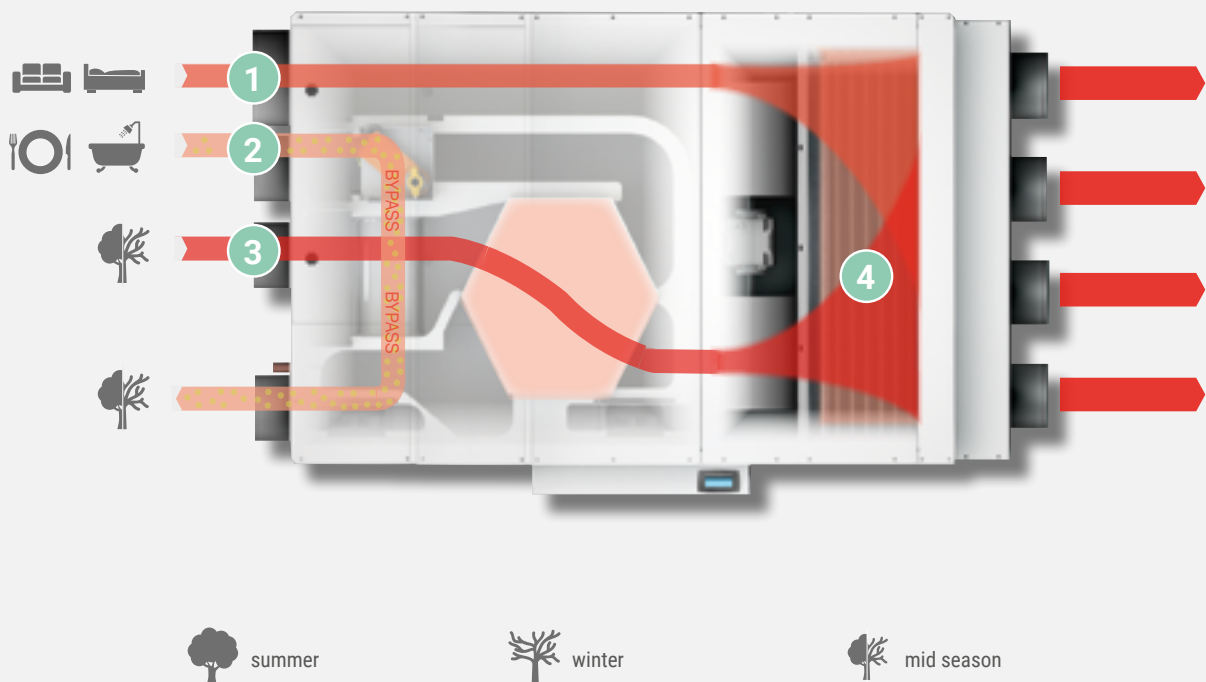
The stale air, usually taken from the kitchens and bathrooms, is directly ejected outside of the building.

3 EXTERNAL AIR INLET

If the warm external conditions are in line with the required internal load, the primary air through the By-pass function that is automatically activated with the dedicated control, will be entered directly into the room after a suitable filtration.

4 TREATMENT (IF NEEDED ONLY)

The air mix thus obtained, composed partly of recirculated air and partly by fresh air sourced in free heating, it is now further heated only if needed by the coil according to the exact requirements of comfort selected by the user, before to be re-entered in the environments through dedicated multiplexed distribution network.

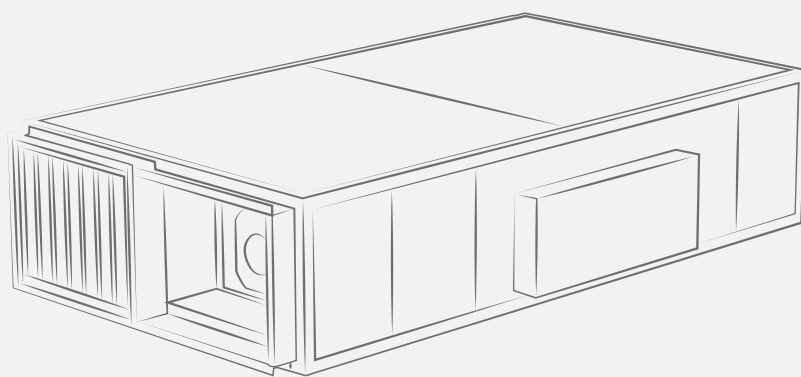


DOUBLE-ECM

EBF-SHE/HHE

EBF-SHE/HHE-ECM

High efficiency heat recovery unit



EBF-SHE/HHE
EBF-SHE/HHE-ECM


High efficiency and energy savings

EBF-SHE

 **400 - 4700** m³/h
air flow

 **75 - 86** %
thermal efficiency

EBF-HHE

 **320 - 4300** m³/h
air flow

 **78 - 90** %
thermal efficiency

EBF-SHE/HHE
EBF-SHE/HHE-ECM



Structure:

structure made of pre-painted sheet metal with sandwich-type removable panels of average thickness 23mm, with thermo-acoustic insulation in injected polyurethane with a density of 45 kg/m³.



Heat exchanger:

Air-to-air heat recovery unit in aluminum, static type with countercurrent flows with a close pitch with achievable performances up to over 90%.

The recuperator is removable from below for the model size 1, and laterally for all other sizes.



Air filter:

Standard air filters with efficiency ISO 16890 and PM1 55% (F7 EN 779) in supply and PM10 55% (M5 EN 779) in recovery, laterally removable. These filters use a composite polypropylene medium designed for use in systems with high air volumes, reduced installation spaces and limited load losses.



Fan section:

Fresh air inlet and exhaust fans of centrifugal type with double intake with forward blades with directly coupled motor, designed to optimize the air flow through the internal components minimizing noise.

The ECM versions are equipped with innovative high-efficiency brushless motors.



Condensate drain pan:

Made of galvanized steel plate with water drain connection downwards.



Differential pressure switches:

Fresh air filter pressure switch with visual warning of dirty filter alarm supplied, also available on request an additional pressure switch on the expulsion side.



By-pass free cooling:

The unit is equipped with a partial by-pass of the recuperator for defrosting or free cooling, with a manual opening system (supplied with standard) or an automatic servo control (optional). The automatic version can be controlled by an external consent or even by an integrated electronic management.



Installation:

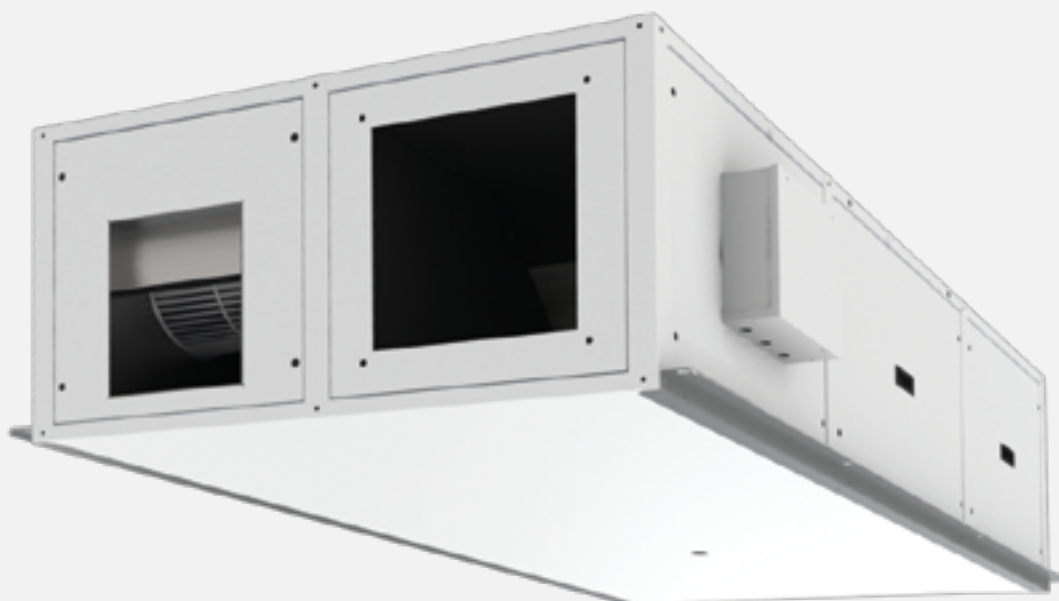
The range is suitable for horizontal installation with application in false ceilings or similar. Depending on the configuration of the distribution network and the space available, it will be possible to choose between two possible orientations named A or B.

The EBF-SHE/HHE series of heat exchanger has been developed in order to guarantee a comfortable and healthy environment aiming for maximum efficiency, ensuring a high energy saving and relative reduction in operating costs.

The range consists of 6 sizes for the SHE / HHE series equipped with asynchronous motors and 8 sizes for the SHE / HHE-ECM series equipped with innovative brushless motors. The units are suitable for horizontal installation, with an air flow range from 320 a 4700 m³/h and recovery efficiencies up to over 90%.

The wide range of capacities and configurations allows to satisfy multiple application requirements for different areas ranging from residential to industrial area.

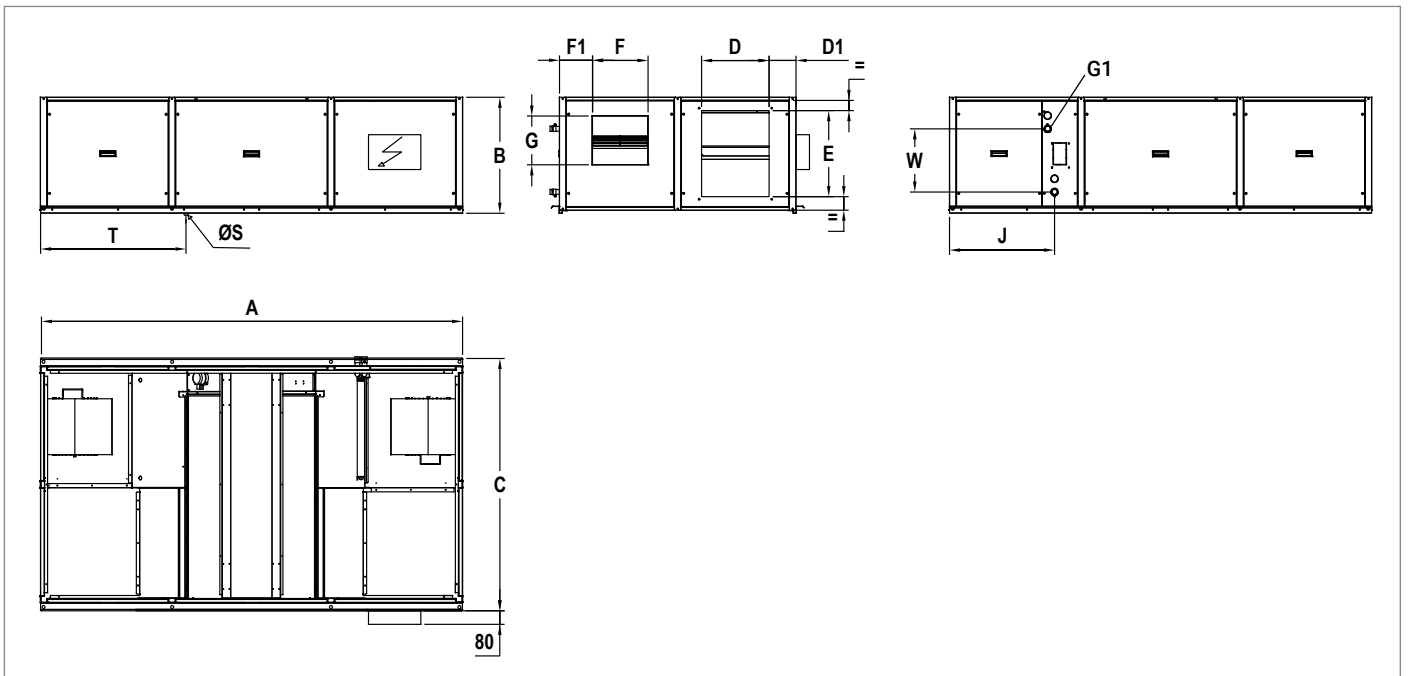
These series of heat exchanger have been suitably sized to comply with the requirements of the European Ecodesign Directive (EU Regulation 1253/14).



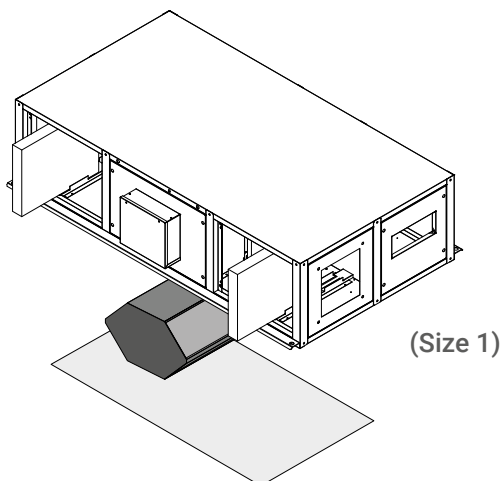
EBF-SHE/HHE
EBF-SHE/HHE-ECM

Dimensions

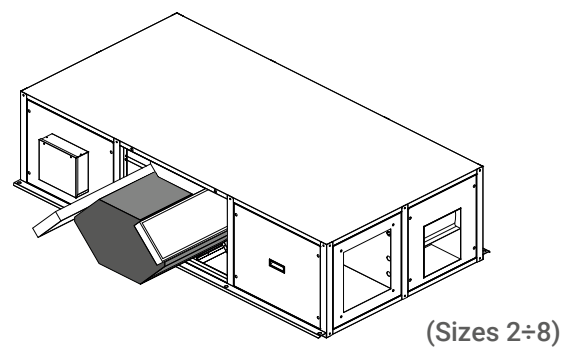
		1	2	3	4	5	6	7	8	
Lunghezza / Length / Longueur / Länge / Longitud	A	mm	1480	1940	1940	2200	2200	2500	2500	2500
Altezza / Height / Hauteur / Höhe / Altura	B	mm	380	480	480	550	550	680	680	680
Profondità / Depth / Profondeur / Tiefe / Profundidad	C	mm	800	990	990	1000	1400	1400	1400	1700
	D	mm	200	300	300	300	500	400	500	500
	D1	mm	110	100	100	100	100	150	100	185
	E	mm	210	310	310	410	410	510	510	510
	F	mm	230	230	230	230	300	330	405	405
	F1	mm	90	140	140	145	215	195	158	232
	G	mm	70	210	260	260	260	290	405	405
	G1	Ø inch	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	1"	1"
	S	Ø inch	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
	T	mm	355	697	697	778	779	863	863	863
	J	mm	412	550	550	550	550	620	620	620
	W	mm	177	190	190	265	350	375	375	375
Peso / Weight / Poids / Gewicht / Peso		kg	90	140	150	170	200	230	260	300



Accessibility (filters and heat recovery exchanger)

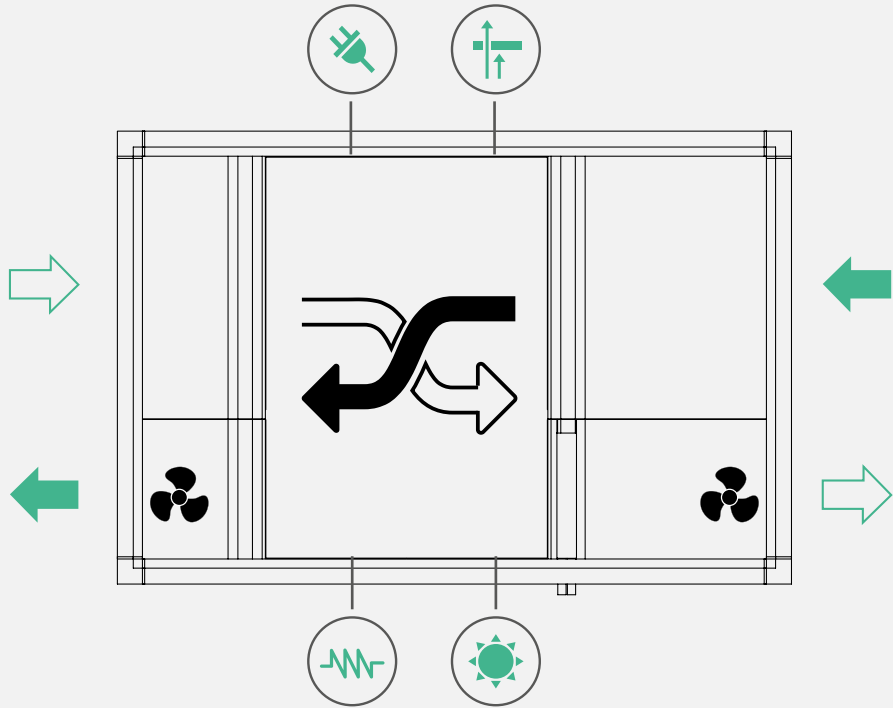


(Size 1)

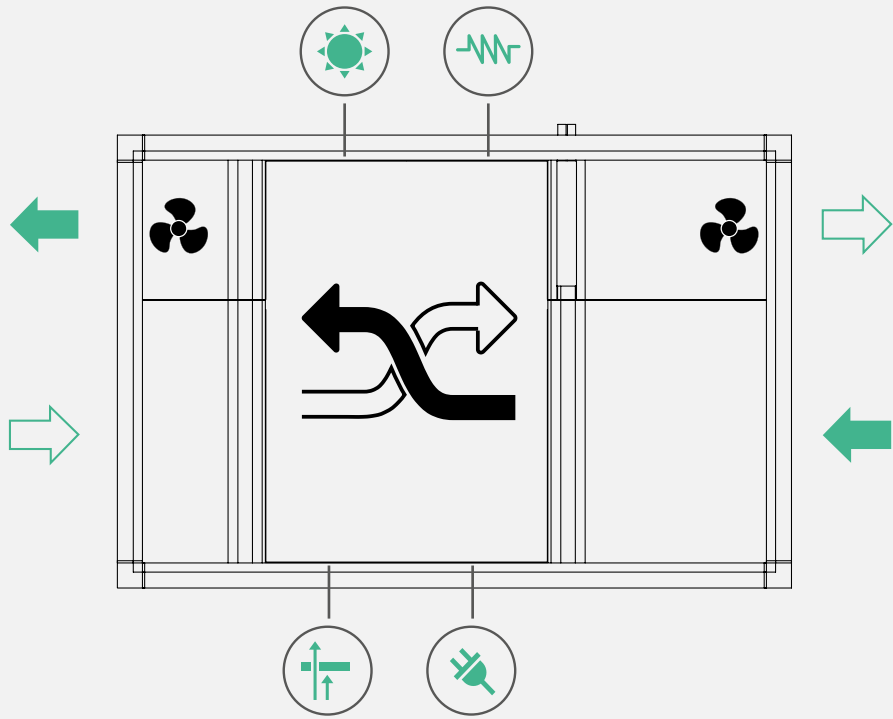


(Sizes 2-8)

Configuration type A



Configuration type B



The configurations are referred to the top view



exhaust air



fresh air



power outlet






air filter




electric heater



heating

		SHE-ECM								HHE-ECM								
 Motore ECM - ECM motor Moteur ECM - ECM-Motor - Motor ECM		1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	
Portata aria nominale Nominal airflow Débit d'air nominal Nennluftstrom Caudal de aire nominal	m ³ /h	400	750	1000	1500	2050	3200	3800	4700	320	600	800	1200	1600	2500	3500	4300	
Pressione statica utile nominale Nominal external static pressure Pression statique utile nominale Nominaler externer statischer Druck Presión estática útil nominal	Pa	160	120	130	160	120	180	200	200	165	150	160	160	150	250	200	200	
Pressione statica utile massima Maximum external static pressure Pression statique utile maxi Maximaler externer statischer Druck Presión estática máxima útil	Pa	340	210	520	500	540	375	330	200	380	300	600	450	600	440	350	220	
VENTILATORE / FAN VENTILATEUR / VENTILATOR / VENTILADOR																		
Tipologia motore Motor typology Typologie du moteur Motorentyp Tipología de motor		ECM																
N° velocità Speed Number Numéro de vitesses Anzahl der Geschwindigkeitsstufen No. de velocidades	(1)	Multiple																
Controllo ventilazione Fan control Contrôle de la ventilation Ventilatorsteuerung Control de ventilación	(1)	0-10V																
Potenza assorbita nominale totale Total nominal power input Puissance absorbée totale nominale Gesamtnennleistung Potencia absorbida nominal total	kW	0.16	0.30	0.49	0.76	0.84	1.77	1.78	2.19	0.16	0.24	0.32	0.53	0.61	1.32	1.87	2.27	
Corrente assorbita nominale totale Total nominal load amperage Courant absorbé nominal total Gesamtnennstrom Corriente absorbida nominal total	A	0.7	1.3	2.1	3.2	3.6	7.5	7.6	9.3	0.7	1.0	1.4	2.2	2.6	5.6	8.0	9.6	
Efficienza statica dei ventilatori secondo (UE) n.327/2011 Static efficiency of fans (UE) n.327/2011 Efficacité statique des ventilateurs selon (EU) n.327 / 2011 Statischer Wirkungsgrad von Lüftern gemäß (EU) Nr. 327/2011 Eficiencia estática de los ventiladores según (UE) n. 327/2011	%	32.7	32.7	53.2	53.2	55.9	59.8	66.9	66.9	32.73	32.73	53.2	53.2	55.9	59.8	66.9	66.9	
Potenza assorbita massima totale Total full load power input Puissance absorbée totale maximale Gesamtleistungsaufnahme bei Vollast Potencia absorbida máxima total	kW	0.56	0.56	2.12	2.12	2.12	2.35	2.07	2.07	0.56	0.56	2.12	2.12	2.12	2.35	2.07	2.07	
Corrente assorbita massima totale Total full load amperage Courant absorbé maximal total Gesamstromaufnahme bei Vollast Corriente absorbida máxima total	A	2.4	2.4	9.0	9.0	9.0	10.0	8.8	8.8	2.4	2.4	9.0	9.0	9.0	10.0	8.8	8.8	
Alimentazione elettrica Power supply Alimentation électrique Stromversorgung Fuente de alimentación	V/ph/Hz	230/1/50			230/1/50-60					230/1/50		230/1/50-60						
RECUPERATORE DI CALORE / HEAT RECOVERY UNITS RÉCUPÉRATEURS DE CHALEUR / WÄRMERÜCKGEWINNUNG / RECUPERADOR DE CALOR																		
 Efficienza termica invernale Winter thermal efficiency Efficacité thermique hivernale Wärmewirkungsgrad im Winter Eficiencia térmica invernale	(2)	%	83.6	82.9	81.6	83.3	83.7	86.8	84.1	84.2	90.2	91.1	90.0	90.0	90.4	91.5	90.1	90.2
 Efficienza termica estiva Summer thermal efficiency Efficacité thermique d'été Termischer Wirkungsgrad im Sommer Eficiencia térmica de verano	(3)	%	75.5	75.9	74.5	75.1	75.6	78.0	75.0	75.1	79.6	80.1	78.7	79.2	79.8	80.0	78.4	78.5
Efficienza termica a secco Dry thermal efficiency Efficacité thermique sèche Trockener thermischer Wirkungsgrad Eficiencia térmica seca	(4)	%	75.9	76.4	75.0	75.6	76.0	76.3	75.5	75.6	83.1	83.7	82.2	82.7	83.3	83.5	81.8	81.9
(1)	Multiple = Multivelocità > 3 / Multispeed > 3 / Multi-vitesses > 3 / Mehrfache Geschwindigkeit > 3 / Multivelocidad > 3 0-10V = Da potenziometro o tastiera / By potentiometer or control panel / Par clavier ou potentiomètre / über Potentiometer oder Bediengerät / Desde potenciómetro o teclado																	
(2)	Aria esterna, aria ambiente / Outside air, ambient air / Air extérieur, air ambiance / Aussenluft, umgebungsluft / Aire exterior, aire ambiente										-5°C 80% UR / 20°C 50% UR							
(3)	Aria esterna, aria ambiente / Outside air, ambient air / Air extérieur, air ambiance / Aussenluft, umgebungsluft / Aire exterior, aire ambiente										32°C 50% UR / 26°C 50% UR							
(4)	Secondo regolamento UE 1253/2014: alla pressione nominale; condizioni di temperatura e umidità riferite a EN 308 / Refer to EU 1253/2014 regulation: at nominal pressure; air conditions refer to EN 308 standard / Selon le règlement UE 1253/2014: à la pression nominale; conditions de température et d'humidité selon EN 308 / Gemäß EU-Verordnung 1253/2014: bei Nenndruck; Temperatur- und Feuchtigkeitsbedingungen gemäß EN 308 / Según el reglamento UE 1253/2014: a presión nominal; condiciones de temperatura y humedad referidas a EN 308.																	

Performance technical data

		SHE-ECM								HHE-ECM							
 Motore ECM - ECM motor Moteur ECM - ECM-Motor - Motor ECM		1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8
LIMITI DI FUNZIONAMENTO / OPERATING LIMITS																	
LIMITES DE FONCTIONNEMENT / EINSATZGRENZEN / LIMITES DE FUNCIONAMIENTO																	
Condizioni di temperatura / umidità limite esterne Outdoor temperature / humidity working limits Conditions de température / humidité limite externe Aussentemperatur / Luftfeuchtigkeitseinsatzgrenzen Condiciones ambientales : humedad limite exterior	°C/%	-5 ... +45 °C / 5 ... 95%															
Condizioni di temperatura / umidità limite esterne con accessorio sezione 3 serrande di sbrinamento o resistenza elettrica di pre-riscaldamento Outdoor temperature / humidity working limits with 3 dampers defrosting section or electric pre-heating coil option Conditions de température / humidité limite externe with 3 dampers defrosting section or electric pre-heating coil option Aussentemperatur / Luftfeuchtigkeitseinsatzgrenzen mit Sektion 3 Abtauklappen Zubehör oder Elektroheizwiderstand für integrierte Vorheizung Condiciones ambientales: humedad límite exterior con accesorio Sección 3 compuertas de descongelación o Resistencia eléctrica de precalentamiento integrada	°C/%	-15 ... +45 °C / 5 ... 95%															
Condizioni di temperatura / umidità limite interne Indoor temperature / humidity working limits Conditions de température / humidité limite interne Innentemperatur / Luftfeuchtigkeitseinsatzgrenzen Condiciones ambientales / humedad limite interior	°C/%	+10 ... +35 °C / 10 ... 90%															
DATI SPECIFICI ECODESIGN / ECODESIGN SPECIFIC DATA																	
DONNÉES SPÉCIFIQUES À L'ÉCODESIGN / SPEZIFISCHE ECODESIGNDATEN / DATOS ESPECÍFICOS DE ECODISEÑO																	
Tipologia dichiarata Declared typology Typologie déclarée Deklarierter typ Tipología declarada		UVNR - UVB															
Potenza specifica interna dei componenti della ventilazione (SFPint) Internal specific fan power of ventilation components (SFPint) Puissance spécifique des composants internes de ventilation (SFPint) Interne spezifische Leistung von Lüftungskomponenten (SFPint) Potencia específica interna de los componentes de ventilación (SFPint)	(4) W/(m³/s)	705	742	1059	1048	898	1040	949	935	830	608	722	866	722	816	1157	1129
Potenza massima specifica interna dei componenti della ventilazione (SFPint_limit) Maximum internal specific fan power of ventilation components (SFPint_limit) Puissance spécifique maximale des composants internes de ventilation (SFPint_limit) Maximale spezifische Innenleistung der Lüftungskomponenten (SFPint_limit) Potencia específica interna máxima de componentes de ventilación (SFPint_limit)	W/(m³/s)	1170	1171	1118	1116	1105	1066	1017	982	1390	1396	1343	1341	1342	1311	1218	1188
Velocità frontale alla portata nominale Air speed at the air flow rate Vitesse frontale au débit nominal Luftgeschwindigkeit bei gewähltem Luftstrom Velocidad del aire en contraposición al caudal nominal del aire	m/s	0.93	1.36	1.81	2.00	1.83	2.06	2.44	2.42	0.74	1.08	1.45	1.60	1.42	1.61	2.25	2.21
Perdita di pressione dei componenti interni della ventilazione (Δps,int) Internal pressure drop of ventilation components (Δps,int) Perte de pression des composants internes de la ventilation (Δps,int) Druckverlust der internen Lüftungskomponenten (Δps, int) Pérdida de carga de los componentes internos de la ventilación (Δps, int)	Pa	140	119	179	202	177	194	252	248	135	105	154	184	157	183	294	287
Massimo trafilamento esterno dell'involucro Declared maximum external leakage rates of the casing of ventilation units Fuite externe maximale du boîtier Maximale externe Leakage des Gehäuses Fuga externa máxima del envolvente	%	< 3,5	< 3,5	< 3,5	< 3,5	< 3,5	< 3,5	< 3,5	< 3,5	< 3,5	< 3,5	< 3,5	< 3,5	< 3,5	< 3,5	< 3,5	< 3,5
Massimo trafilamento interno o flusso residuo Declared maximum internal leakage rates for bidirectional ventilation units Fuite interne maximale ou débit résiduel Maximale Leckluft rate des Gehäuses Fuga interna máxima o flujo residual	%	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
Consumo annuo calcolato di energia dei filtri (8760 h di funzionamento) Calculated annual energy consumption of the F7 and M5 filter (8760 hours of operation) Consumation annuelle d'énergie des filtres calculée (8760 h de fonctionnement) Berechneter jährlicher Energieverbrauch der Filter (8760 Betriebsstunden) Consumo energético anual calculado de los filtros (8760 h en funcionamiento)	kWh/a	487	1448	1684	2862	3325	4036	5456	6649	297	884	1028	1747	1922	2229	4476	5368
Livello di potenza sonora irradiato dall'involucro (LWA) Sound power level (LWA) Niveaux de puissance acoustique rayonné (LWA) Schalleistungspegel, der vom Gehäuse abgestrahlt wird (LWA) Nivel de potencia acústica transmitida por el envolvente (LWA)	(5) dB (A)	57	60	59	61	59	64	66	68	56	57	60	60	60	66	68	67

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(4) Secondo regolamento UE 1253/2014: alla pressione nominale; condizioni di temperatura e umidità riferite a EN 308 / Referred to EU 1253/2014 regulation: at nominal pressure; air conditions refer to EN 308 standard / Selon le règlement UE 1253/2014: à la pression nominale; conditions de température et d'humidité selon EN 308 / Gemäß EU-Verordnung 1253/2014: bei Nenndruck; Temperatur- und Feuchtigkeitsbedingungen gemäß EN 308 / Según el reglamento UE 1253/2014: a presión nominal; condiciones de temperatura y humedad referidas a EN 308.

(5) Livello di potenza sonora alle condizioni di funzionamento nominali / Sound power level at nominal working conditions / Niveaux de puissance acoustique à les conditions nominales de fonctionnement / Schalleistungspegel bei Nennbetriebsbedingungen / Nivel de potencia acústica en condiciones nominales de funcionamiento

		SHE						HHE						
Motore asincrono - Asynchronous motor Moteur asynchrone - Asynchronmotor - Motor asincrono		1	2	3	4	5	6	1	2	3	4	5	6	
Portata aria nominale Nominal airflow Débit d'air nominal Nennluftstrom Caudal de aire nominal	m ³ /h	400	750	1000	1500	2050	3200	320	600	800	1200	1600	2500	
Pressione statica utile nominale Nominal external static pressure Pression statique utile nominale Nominaler externer statischer Druck Presión estática útil nominal	Pa	160	120	130	160	120	180	165	150	160	160	150	250	
Pressione statica utile massima Maximum external static pressure Pression statique utile maxi Maximaler externer statischer Druck Presión estática máxima útil	Pa	160	120	130	160	120	180	165	150	160	160	150	250	
VENTILATORE / FAN VENTILATEUR / VENTILATOR / VENTILADOR														
Tipologia motore Motor typology Typologie du moteur Motorentyp Tipología de motor		AC												
N° velocità Speed Number Numéro de vitesse Anzahl der Geschwindigkeitsstufen No. de velocidades		3												
Controllo ventilazione Fan control Contrôle de la ventilation Ventilatorsteuerung Control de ventilación	(1)	Manuale - Manual												
Potenza assorbita nominale totale Total nominal power input Puissance absorbée totale nominale Gesamtnennleistung Potencia absorbida nominal total	kW	0.17	0.38	0.52	0.80	1.00	1.79	0.22	0.32	0.35	0.59	0.70	1.60	
Corrente assorbita nominale totale Total nominal load amperage Courant absorbé nominal total Gesamtnennstrom Corriente absorbida nominal total	A	0.7	1.6	2.2	3.4	4.3	7.6	0.9	1.4	1.5	2.5	3.0	6.8	
Efficienza statica dei ventilatori secondo (UE) n.327/2011 Static efficiency of fans (UE) n.327/2011 Efficacité statique des ventilateurs selon (EU) n.327 / 2011 Statischer Wirkungsgrad von Lüftern gemäß (EU) Nr. 327/2011 Eficiencia estática de los ventiladores según (UE) n. 327/2011	%	N.A.	38.6	38.6	38.6	40.4	43.4	N.A.	38.6	38.6	38.6	40.4	43.4	
Potenza assorbita massima totale Total full load power input Puissance absorbée maximale Gesamtleistungsaufnahme bei Vollast Potencia absorbida máxima total	kW	0.35	0.68	1.41	1.41	1.41	3.29	0.35	0.68	1.41	1.41	1.41	3.29	
Corrente assorbita massima totale Total full load amperage Courant absorbé maximal total Gesamtstromaufnahme bei Vollast Corriente absorbida máxima total	A	1.5	2.9	6.0	6.0	6.0	14.0	1.5	2.9	6.0	6.0	6.0	14.0	
Alimentazione elettrica Power supply Alimentation électrique Stromversorgung Fuente de alimentación	V/ph/Hz	230/1/50			230/1/50-60			230/1/50			230/1/50-60			
RECUPERATORE DI CALORE / HEAT RECOVERY UNITS RÉCUPÉRATEURS DE CHALEUR / WÄRMERÜCKGEWINNUNG / RECUPERADOR DE CALOR														
❄️ Efficienza termica invernale Winter thermal efficiency Efficacité thermique hivernale Wärmewirkungsgrad im Winter Eficiencia térmica invernal	(2) %	83.6	82.9	81.6	83.3	83.7	86.8	90.2	91.1	90.0	90.0	90.4	91.5	
☀️ Efficienza termica estiva Summer thermal efficiency Efficacité thermique d'été Termischer Wirkungsgrad im Sommer Eficiencia térmica de verano	(3) %	75.5	75.9	74.5	75.1	75.6	78.0	79.6	80.1	78.7	79.2	79.8	80.0	
Efficienza termica a secco Dry thermal efficiency Efficacité thermique sèche Trockener thermischer Wirkungsgrad Eficiencia térmica seca	(4) %	75.9	76.4	75.0	75.6	76.0	76.3	83.1	83.7	82.2	82.7	83.3	83.5	
(1)	Manuale da selettore o tastiera / Manual by selector switch or control panel / Manuel par le sélecteur ou le clavier / Manuell über Drehschalter oder Bediengerät / Manual desde selector o teclado													
(2)	Aria esterna, aria ambiente / Outside air, ambient air / Air extérieur, air ambiance / Aussenluft, umgebungsluft / Aire exterior, aire ambiente								-5°C 80% UR / 20°C 50% UR					
(3)	Aria esterna, aria ambiente / Outside air, ambient air / Air extérieur, air ambiance / Aussenluft, umgebungsluft / Aire exterior, aire ambiente								32°C 50% UR / 26°C 50% UR					
(4)	Secondo regolamento UE 1253/2014: alla pressione nominale; condizioni di temperatura e umidità riferite a EN 308 / Refer to EU 1253/2014 regulation: at nominal pressure; air conditions refer to EN 308 standard / Selon le règlement UE 1253/2014: à la pression nominale; conditions de température et d'humidité selon EN 308 / Gemäß EU-Verordnung 1253/2014: bei Nenndruck; Temperatur- und Feuchtigkeitsbedingungen gemäß EN 308 / Según el reglamento UE 1253/2014: a presión nominal; condiciones de temperatura y humedad referidas a EN 308.													

		SHE					HHE						
Motore asincrono - Asynchronous motor Moteur asynchrone - Asynchronmotor - Motor asíncrono		1	2	3	4	5	6	1	2	3	4	5	6
LIMITI DI FUNZIONAMENTO / OPERATING LIMITS													
LIMITES DE FONCTIONNEMENT / EINSATZGRENZEN / LIMITES DE FUNCIONAMIENTO													
Condizioni di temperatura / umidità limite esterne Outdoor temperature / humidity working limits Conditions de température / humidité limite externe Aussentemperatur / Luftfeuchtigkeitseinsatzgrenzen Condiciones ambientales : humedad limite exterior	°C/%	-5 ... +45 °C / 5 ... 95%											
Condizioni di temperatura / umidità limite esterne con accessorio sezione 3 serrande di sbrinamento o resistenza elettrica di pre-riscaldamento Outdoor temperature / humidity working limits with 3 dampers defrosting section or electric pre-heating coil option Conditions de température / humidité limite externe with 3 dampers defrosting section or electric pre-heating coil option Aussentemperatur / Luftfeuchtigkeitseinsatzgrenzen mit Sektion 3 Abtauklappen Zubehör oder Elektroheizwiderstand für integrierte Vorheizung Condiciones ambientales: humedad límite exterior con accesorio Sección 3 compuertas de descongelación o Resistencia eléctrica de precalentamiento integrada	°C/%	-15 ... +45 °C / 5 ... 95%											
Condizioni di temperatura / umidità limite interne Indoor temperature / humidity working limits Conditions de température / humidité limite interne Innentemperatur / Luftfeuchtigkeitseinsatzgrenzen Condiciones ambientales / humedad limite interior	°C/%	+10 ... +35 °C / 10 ... 90%											
DATI SPECIFICI ECODESIGN / ECODESIGN SPECIFIC DATA													
DONNÉES SPÉCIFIQUES À L'ÉCODESIGN / SPEZIFISCHE ECODESIGNDATEN / DATOS ESPECÍFICOS DE ECODISEÑO													
Tipologia dichiarata Declared typology Typologie déclarée Deklarierte typ Tipología declarada		UVNR - UVB											
Potenza specifica interna dei componenti della ventilazione (SFPint) Internal specific fan power of ventilation components (SFPint) Puissance spécifique des composants internes de ventilation (SFPint) Interne spezifische Leistung von Lüftungskomponenten (SFPint) Potencia interna específica de los componentes de ventilación (SFPint)	(4) W/(m³/s)	740	934	1105	1102	1078	1054	1153	821	793	974	830	988
Potenza massima specifica interna dei componenti della ventilazione (SFPint_limit) Maximum internal specific fan power of ventilation components (SFPint_limit) Puissance spécifique maximale des composants internes de ventilation (SFPint_limit) Maximale spezifische Innenleistung der Lüftungskomponenten (SFPint_limit) Potencia específica interna máxima de componentes de ventilación (SFPint_limit)	W/(m³/s)	1170	1171	1118	1116	1105	1066	1390	1396	1343	1341	1342	1311
Velocità frontale alla portata nominale Air speed at the air flow rate Vitesse frontale au débit nominal Luftgeschwindigkeit bei gewähltem Luftstrom Velocidad del aire en contraposición al caudal nominal del aire	m/s	0.93	1.36	1.81	2.00	1.83	2.06	0.74	1.08	1.45	1.60	1.42	1.61
Perdita di pressione dei componenti interni della ventilazione (Δps,int) Internal pressure drop of ventilation components (Δps,int) Perte de pression des composants internes de la ventilation (Δps,int) Druckverlust der internen Lüftungskomponenten (Δps, int) Pérdida de carga de los componentes internos de la ventilación (Δps, int)	Pa	140	119	179	202	177	194	135	105	154	184	157	183
Massimo trafileamento esterno dell'involucro Declared maximum external leakage rates of the casing of ventilation units Fuite externe maximale du boîtier Maximale externe Leckage des Gehäuses Fuga externa máxima del envolvente	%	< 3,5	< 3,5	< 3,5	< 3,5	< 3,5	< 3,5	< 3,5	< 3,5	< 3,5	< 3,5	< 3,5	< 3,5
Massimo trafileamento interno o flusso residuo Declared maximum internal leakage rates for bidirectional ventilation units Fuite interne maximale ou débit résiduel Maximale Lecklufttrate des Gehäuses Fuga interna máxima o flujo residual	%	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
Consumo annuo calcolato di energia dei filtri (8760 h di funzionamento) Calculated annual energy consumption of the F7 and M5 filter (8760 hours of operation) Consumation annuelle d'énergie des filtres calculée (8760 h de fonctionnement) Berechneter jährlicher Energieverbrauch der Filter (8760 Betriebsstunden) Consumo energético anual calculado de los filtros (8760 h en funcionamiento)	kWh/a	613	1228	2320	3945	4601	5562	374	749	1416	2408	2659	3071
Livello di potenza sonora irradiato dall'involucro (LWA) Sound power level (LWA) Niveaux de puissance acoustique rayonné (LWA) Schalleistungspegel, der vom Gehäuse abgestrahlt wird (LWA) Nivel de potencia acústica transmitida por el envolvente (LWA)	(5) dB (A)	58	61	61	64	64	68	57	57	60	62	63	68

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EBF-SHE/HHE-ECM**

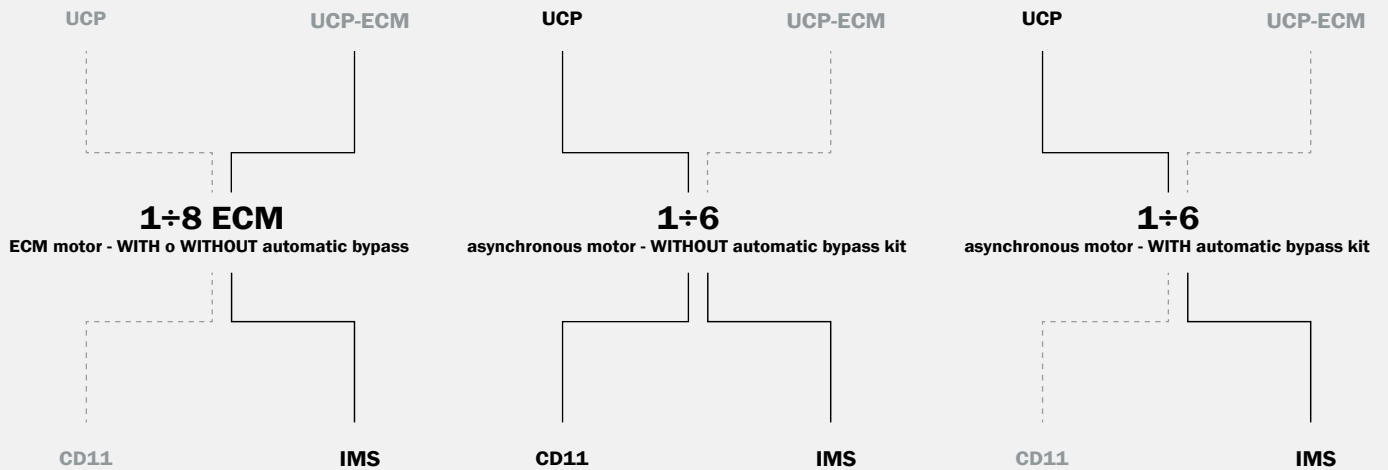
(4) Secondo regolamento UE 1253/2014: alla pressione nominale; condizioni di temperatura e umidità riferite a EN 308 / Referred to EU 1253/2014 regulation: at nominal pressure; air conditions refer to EN 308 standard / Selon le règlement UE 1253/2014: à la pression nominale; conditions de température et d'humidité selon EN 308 / Gemäß EU-Verordnung 1253/2014: bei Nenndruck; Temperatur- und Feuchtigkeitsbedingungen gemäß EN 308 / Según el reglamento UE 1253/2014: a presión nominal; condiciones de temperatura y humedad referidas a EN 308.

(5) Livello di potenza sonora alle condizioni di funzionamento nominali / Sound power level at nominal working conditions / Niveaux de puissance acoustique à les conditions nominales de fonctionnement / Schalleistungspegel bei Nennbetriebsbedingungen / Nivel de potencia acústica en condiciones nominales de funcionamiento

Compatibility of controls

For the complete specifications of the controls, please refer to the part relating to the controls, available from page 164.

CD11	Comando senza regolazione di temperatura Control without temperature control Commande sans réglage de température Steuerung ohne Temperaturregelung Funcionamiento sin regulación de temperatura
IMS	Sistema di gestione integrale Integrated management system Système de gestion intégrale Integriertes Verwaltungssystem Sistema de gestión integral
UCP	Pannello di controllo unità (motore asincrono) Unit control panel (asynchronous motor) Panneau de contrôle unité (moteur asynchrone) Steuertafel der Einheit (Asynchronmotor) Panel de control de la unidad (motor asíncrono)
UCP-ECM	Pannello di controllo unità (motore ECM) Unit control panel (ECM motor) Panneau de contrôle unité (moteur ECM) Steuertafel der Einheit (Motorsteuerung) Panel de control de la unidad (motor ECM)

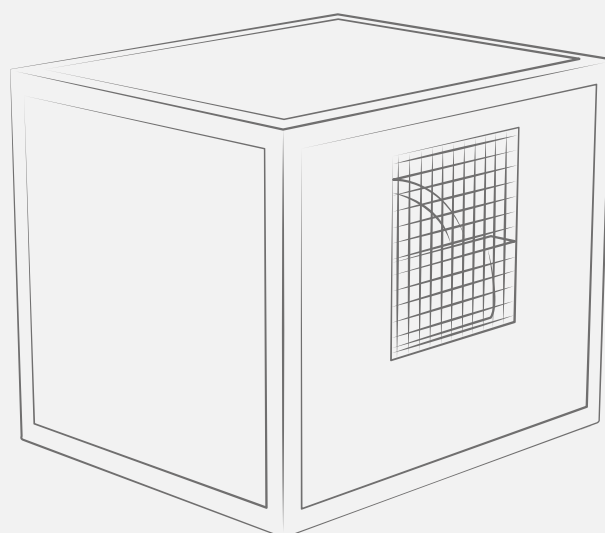


———— Compatible
Compatible
Compatible
Kompatibel
Compatible

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

CFT

Centrifugal extract fan box



CFT

Reliability and consistency



1372 - 3203 m³/h
air flow

CFT

Construction features



Structure:

CFT-A single panel unit:



shaped galvanized steel profiles, ABS corner sections and galvanized steel panels lined with polyester, 10 mm thick.

CFT-B unit with double paneling:

extruded aluminum profiles, angular in ABS and panels in double paneling with interposed polyurethane foam density 45 kg/m³.

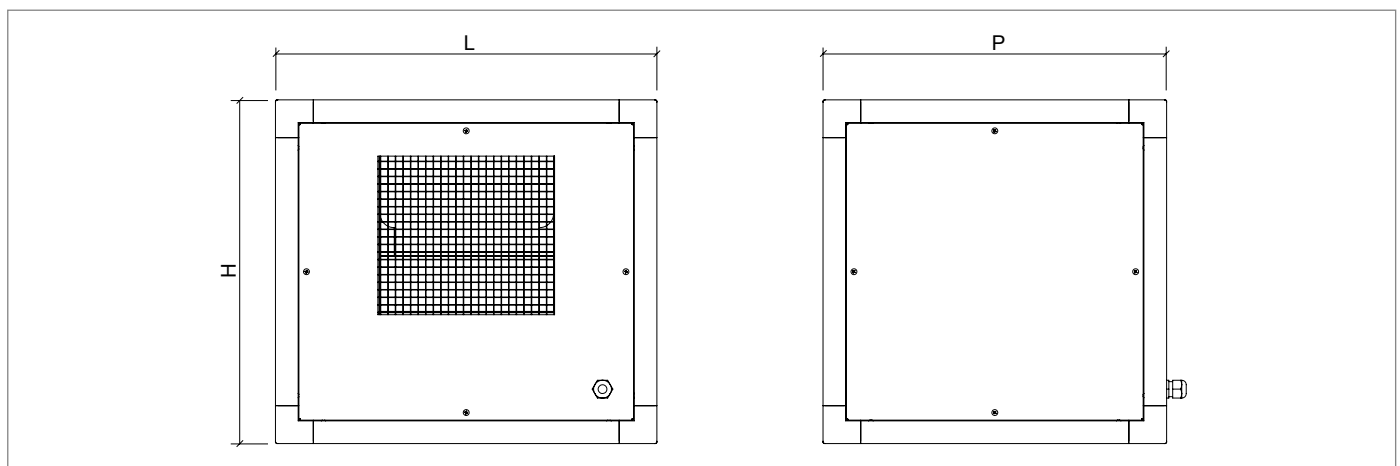
Fan section



Forward blades double suction fan, with single-phase asynchronous motor directly coupled to 3 speeds. Single speed motors are available on request.

Dimensions

			MOD. A				MOD. B			
			02	05	07	08	02	05	07	08
Lunghezza / Length / Longueur / Länge / Longitud	L	mm	505	605	705	805	505	605	705	805
Altezza / Height / Hauteur / Höhe / Altura	H	mm	455	505	555	655	455	505	555	655
Profondità / Depth / Profondeur / Tiefe / Profundidad	P	mm	455	505	555	655	455	505	555	655



CFT

		02	05	07	08
Tipologia dichiarata Declared typology Typologie déclarée deklarierter Type Tipología declarada		UVNR-UVU NRVU-UVU	UVNR-UVU NRVU-UVU	UVNR-UVU NRVU-UVU	UVNR-UVU NRVU-UVU
Tipo di azionamento installato o prescritto Type of drive installed or intended to be installed Type de contrôle de vitesse installé ou prescrit Antriebstyp installiert oder vorgeschrieben Tipo de unidad instalada o de proyecto		Multivelocità / Multispeed / Multi-vitesse / Mehrfache Geschwindigkeit / Multivelocidad			
Tipologia sistema di recupero HRS Type of HRS Système de récupération HRS Art des Wärmerückgewinnungssysteme Tipología de sistema de recuperación HRS		Assente - Absent			
Efficienza termica del sistema Thermal efficiency of heat recovery Efficacité thermique du système Wirkungsgrad der Wärmerückgewinnung Eficiencia térmica del sistema	%	Non disponibile / Unavailable / Non disponible / Nicht verfügbar / No disponible			
Portata aria nominale UVNR-UVU Nominal flow rate NRVU-UVU Débit d'air nominal NRVU-UVU Nennluftstrom NRVU-UVU Caudal de aire nominal NRVU-UVU	m³/s	0,381	0,629	0,780	0,890
Potenza elettrica assorbita effettiva Effective electric power input Puissance électrique nominale absorbée Effektive elektrische Leistungsaufnahme Consumo efectivo de energía eléctrica	kW	0,280	0,538	0,857	0,724
Potenza specifica interna dei componenti della ventilazione (SFPint) Internal specific fan power of ventilation components (SFPint) Puissance spécifique des composants internes de ventilation (SFPint) Interne spezifische Leistung von Lüftungskomponenten (SFPint) Potencia interna específica de los componentes de ventilación (SFPint)	W/(m³/s)	229	221	197	134
Velocità frontale alla portata nominale Air speed at the air flow rate Vitesse frontale au débit nominal Luftgeschwindigkeit bei gewähltem Luftstrom Velocidad del aire en contraposición al caudal nominal del aire	m/s	7,7	8,0	8,1	6,6
Pressione esterna nominale (Δps, ext) Nominal external pressure (Dps, ext) Pression nominale externe (Δps, ext) Nennaußendruck (Δps, ext) Presión externa nominal (Δps, ext)	Pa	202	298	371	285
Perdita di pressione dei componenti interni della ventilazione (Δps,int) Internal pressure drop of ventilation components (Dps, int) Perte de pression des composants internes de la ventilation (Δps,int) Druckverlust der internen Lüftungskomponenten (Δps, int) Pérdida de carga de los componentes internos de la ventilación (Δps, int)	Pa	64	70	67	47
Efficienza statica dei ventilatori secondo (UE) n.327/2011 Static efficiency of fans according to (UE) n.327/2011 Efficacité statique des ventilateurs selon (EU) n.327 / 2011 Statischer Wirkungsgrad von Lüftern gemäß (EU) Nr. 327/2011 Eficiencia estática de los ventiladores según (UE) n. 327/2011	%	34,2	36,1	37,2	36,8
Massimo trafileamento esterno dell'involucro Declared maximum external leakage rates of the casing of ventilation units Fuite externe maximale du boîtier Maximale externe Leckage des Gehäuses Fuga externa máxima del envoltente	%	≤ 3%	≤ 3%	≤ 3%	≤ 3%
Prestazione energetica o classificazione energetica dei filtri Energy performance or energy rating of the filters Performance énergétique ou classification énergétique des filtre Energieeffizienz oder Energieklassifizierung der Filter Rendimiento energético o clasificación energética de filtros		Assente - Absent			
Descrizione del segnale visivo dei filtri Description of the visual signal of the filters Description du signal visuel des filtres Beschreibung des visuellen Signals der Filter Descripción de la señal visual de los filtros		Assente - Absent			
Livello di potenza sonora irradiato dall'involucro Sound power level (LWA) Niveaux de puissance acoustique rayonné Schallleistungspegel, der vom Gehäuse abgestrahlt wird Nivel de potencia acústica transmitida por el envoltente	dB(A)	67	57	61	74
Tipologia di ventilatore Fan typology Type de ventilateur Ventilatorart Tipología de ventilador	-	7/7	9/9	10/10	12/12
Numero velocità Speed number Numéro de vitesse Nummer der Geschwindigkeitsstufe Número de velocidad	n.	3	3	3	3
Classe motore Motor class Classe de moteur Motorklasse Clase de motor	-	F	F	F	F
Grado protezione motore Motor protection grade Degré de protection du moteur Motorschutzklasse Grado de protección del motor	IP	IP20	IP20	IP20	IP20
Potenza nominale resa Nominal power Puissance nominale Nennleistung Potencia nominal	W	145	370	550	735

		02	05	07	08
Numero poli motore Number of motor poles Nombre de pôles moteur Motorpolzahl Número de polos de ventilador	n.	4	4	4	6
Potenza massima assorbita Maximum absorbed power Max. Puissance absorbée maximale Leistungsaufnahme Potencia máxima absorbida	W	460	900	1520	1780
Corrente massima assorbita Maximum absorbed current Courant maximum absorbé maximale Stromaufnahme Corriente máxima absorbida	A	2,10	4,00	7,14	8,47
Temperatura minima aria di utilizzo Minimum air operating temperature Température mini de l'air Mindestlufttemperatur Temperatura mínima del aire de uso	°C	-10	-10	-10	-10
Temperatura massima aria di utilizzo Maximum air operating temperature Température max de l'air Maximale Betriebslufttemperatur Temperatura máxima del aire de funcionamiento	°C	40	40	40	40
Numero di giri massimo al minuto Maximum R.P.M. nombre maximum de tours par minute maximale Umdrehungen pro Minute Número máximo de revoluciones por minuto	1/min	1080	755	710	550
Alimentazione elettrica Power supply Alimentation électrique Stromversorgung Fuente de alimentación	230V/1ph/50-60Hz				

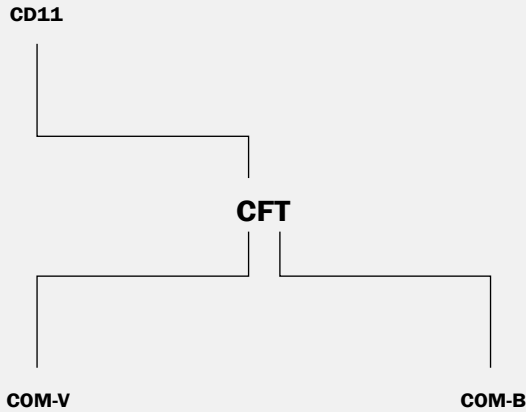
Pressione statica disponibile - Static pressure available Pression statique disponibles - Verfügbarer statischer Druck - Presion estatica disponible			02	05	07	08
Massima velocità Maximum speed Vitesse maximale Höchstgeschwindigkeit Velocidad máxima	20 Pa	m³/h	1862	2850	/	/
	40 Pa	m³/h	1840	2865	/	/
	60 Pa	m³/h	1803	2880	/	5307
	80 Pa	m³/h	1763	2882	/	5296
	100 Pa	m³/h	1716	2875	/	5276
	120 Pa	m³/h	1666	2868	/	5256
	140 Pa	m³/h	1615	2841	3564	5192
	160 Pa	m³/h	1553	2783	3551	5080
	200 Pa	m³/h	1398	2667	3474	4841
	250 Pa	m³/h	1163	2445	3356	4212
	300 Pa	m³/h	/	2149	3209	/
Media velocità Medium speed Vitesse moyenne Mittlere Geschwindigkeit Velocidad media	20 Pa	m³/h	1488	1988	/	/
	40 Pa	m³/h	1490	2013	/	/
	60 Pa	m³/h	1493	2037	2742	4247
	80 Pa	m³/h	1476	2037	2743	4299
	100 Pa	m³/h	1437	2022	2743	4305
	120 Pa	m³/h	1399	2008	2742	4310
	140 Pa	m³/h	1361	1970	2740	4315
	160 Pa	m³/h	1308	1907	2733	4321
	200 Pa	m³/h	1175	1780	2718	4118
	250 Pa	m³/h	/	1596	2598	3690
	300 Pa	m³/h	/	/	2416	/
Minima velocità Minimum speed Vitesse minimale Mindestgeschwindigkeit Velocidad mínima	20 Pa	m³/h	1123	1540	/	/
	40 Pa	m³/h	1134	1541	/	/
	60 Pa	m³/h	1145	1537	2232	3460
	80 Pa	m³/h	1142	1518	2233	3507
	100 Pa	m³/h	1134	1498	2226	3520
	120 Pa	m³/h	1126	1472	2218	3534
	140 Pa	m³/h	1096	1424	2211	3547
	160 Pa	m³/h	1048	1375	2179	3561
	200 Pa	m³/h	/	1270	2062	3521
	250 Pa	m³/h	/	/	1912	2917
	300 Pa	m³/h	/	/	1752	1807

Compatibility of controls / Controller functions

For the complete specifications of the controls, please refer to the part relating to the controls, available from page 164.

LEGENDA

CD11	Comando senza regolazione di temperatura Control without temperature control Commande sans réglage de température Steuerung ohne Temperaturregelung Funcionamiento sin regulación de temperatura
COM-V	Commutatore 3 velocità con selettore a slitta VIMAR Vimar 3-speed slide selector Commutateur 3 vitesses avec sélecteur à glissière VIMAR Umschalter der 3 Geschwindigkeiten mittels Schiebeschalter VIMAR Interruptor de 3 velocidades con selector deslizante VIMAR
COM-B	Commutatore 3 velocità con selettore rotativo b-Ticino B-Ticino rotary selector switch Commutateur 3 vitesses avec sélecteur rotatif b-Ticino Umschalter der 3 Geschwindigkeiten mittels Wahlschalter BTicino Interruptor de 3 velocidades con pequeño selector giratorio b-Ticino



Scheda di potenza per controllo a 3 velocità
Power chart for 3-speed control
Fiche de puissance pour contrôle à 3 vitesses
Leistungsplattine zur Steuerung mit 3 Geschwindigkeiten
Tarjeta de alimentación para el control de 3 velocidades

	CD11	COM-V	COM-B
Mod. 02 (SDP)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Mod. 05 (SDP)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Mod. 07 (SDP-HP)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Mod. 08 (SDP-HP)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

————— Compatibile
Compatible
Compatible
Kompatibel
Compatible

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

COMPATIBILITÀ - COMPATIBILITY - COMPATIBILITÉ - KOMPATIBILITÄT - COMPATIBILIDAD

Installazione a parete da esterno - Wall mounting - Installation murale - Wandmontage - Instalación a pared

Installazione a bordo unità - On board unit installation - Installation embarquée - Installation auf dem Gerät - Instalación al bordo de la unidad

Installazione a parete da incasso - Wall flush-mounting - Installation à encaissement - Wandeinbau - Instalación empotrada

REGOLATORI - CONTROLLERS - RÉGULATEURS - REGLER - REGULADORES

UTILIZZO - USE - UTILISATION - VERWENDUNG - USO

Impianto a 2 tubi - 2 pipe system - Système à 2 tubes - Anlage mit 2 Leiter-System - Sistema de 2 tubos

Impianto a 4 tubi - 4 pipe system - Système à 4 tubes - Anlage mit 4 Leiter-System - Sistema de 4 tubos

CONTROLLI E DISPLAY - CONTROLS&DISPLAY - CONTRÔLES ET ÉCRAN - STEUERUNGEN UND DISPLAY - CONTROLES Y PANTALLAS

Display - Display - Écran - Display - Monitor

Acceso/Spento - On/Off - Allumé/Éteint - Eingeschaltet/Ausgeschaltet - Encendido /Apagado

Caldo/Freddo - Heat/Cool - Chaud/Froid - Heizen/Kühlen - Frío /Caliente

3 velocità ventilatore - 3 fan speed - 3 vitesses ventilateur - 3 Gebläsegeschwindigkeiten - 3 velocidades de ventilador

Regolazione temperatura - Set point range - Réglage température - Temperaturregelung - Regulación de la temperatura

Controllo umidità - Humidity control - Contrôle de l'humidité - Feuchtigkeitsregelung - Control humedad

● Funzione presente
Function available
Fonction présente
Präsenz-Funktion
Función presente

○ Solo 2 tubi
2 pipe only
Uniquement 2 tubes
Nur 2 Leitungen
Solo 2 tubos

CONTROLS

Regulation



Precision control, guarantee of comfort

Ventilclima offers a wide and advanced range of control equipment and their related accessories that are properly developed and designed in order to manage in a dynamic and clear manner the best conditions of the indoor comfort selected by the user.

Various solutions are available based on the intended use, accuracy of desired comfort and on the type of investment.



SDP / SDP-HP

Power interface



Power interface to control a single only one unit from a single thermostat.

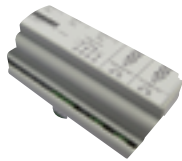
Installation on Din rail (6 modules) directly on board unit or inside a switchboard.

Power supply: 230 Vac 50 Hz - No. 1 motor output: 5,5 A (SDP) - No. 2 motor output: 5,5 A + 5,5 A (SDP-HP)

Applications: control of a single fan motor to avoid thermostat overload (in case the motor input current is higher than thermostat power output).

SDI-V

Interface card



Interface card to control up to 4 units from a single thermostat.

Installation on Din rail (9 modules) directly on board unit or inside a switchboard.

Power supply: 230Vac 50Hz - Motor output: 1,5 A - Valves output: 5 A

Applications: control of up to 4 fan coils with 2 or 4 pipe systems in environments where a single control/thermostat is required. Suitable for 2 pipe system, 2 pipe/4pipe system + 230Vac on/off valves and asynchronous motor.

i-COM

Base switch without temperature control (2 and 4 pipe units)



Main functions: switching the unit on and off - manual heating/off/cooling selection - manual fan low-med-high speed selector switch - input for minimum water temperature thermostat (bimetallic contact) - output for cool valve and heat valve

Installation: directly on board unit (*)

Power supply: 230 Vac 50 Hz. Contact rating: 2,5 (0,5) A

Applications: control for a single unit in environments where automatic temperature control is not required. Suitable for 2 pipe system and 4 pipe system.

i-Basic 1

Analog electronic thermostat (2 and 4 pipe units)

Main functions: switching the fan coil on and off - room temperature adjustment - manual heating/off/cooling selection - manual 3 speed setting



Installation:

- wall-mounted (surface mounting with centres for box 503)
- directly on board unit (*). Air intake sensor is required.

Power supply: 230 Vac 50 Hz. Contact rating: 3 (1) A

Inputs for air intake sensor and for minimum water temperature thermostat (bimetallic contact). 2 outputs for on-off type valve 230 Vac. Outputs: 3(1) A; 230 Vac.

Applications: control of a unit: 2 pipe system, 2 pipe system + valve, 4 pipe system + 2 valves.

i-Basic 2

Analog electronic thermostat (2 and 4 pipe units)

Main functions: switching the unit on and off - room temperature adjustment - manual heating/off/cooling selection or automatic (by supply water sensor) - destratification - neutral zone - manual 3 speed setting

Programmability through jumper of the functions:

Fan mode - System type (2/4 pipes) - Electric heater function mode.

Inputs for air intake sensor and minimum water temperature sensor, 2 outputs for on-off valve 230 Vac / electric heater, output for electric heater.

Installation:

- wall-mounted (surface mounting with centres for box 503)
- directly on board unit (*). Air intake sensor is required.

Power supply: 230 Vac 50 Hz - Contact rating: 1A

Applications: control of a single unit: 2 pipe system, 2 pipe system + valve with automatic or manual Sum/Win changeover, 2 pipe system + electric heater, 4 pipe system + 2 valves with manual or automatic heating/cooling changeover or 1 cool valve and electric heater for heating.



(*) AIR unit only

i-Basic 3

Analog electronic thermostat with simplified DIP-SWITCH programming

Main functions: room temperature adjustment - manual or automatic heating/off/cooling selection - manual and automatic 3 speed setting - destratification - neutral zone - ECM/asynchronous motor control

Programmability through jumper of the functions:

fan mode - system type (2/4 pipes) - electric heater function mode



Installation:

- wall-mounted (surface mounting with centres for box 503)
- directly on board unit (*). Air intake sensor is required.

Power supply: 230Vac/50Hz - Contact rating: 1A

Applications:

Suitable for 2 pipe system, 2 pipe system + on/off or floating valve, 2 pipe system + on/off valve and electric heater, 4 pipe system + 2 on/off valves with neutral zone, with ECM or asynchronous motor.
- Suitable for unit with ECM or asynchronous motor.

i-Digit 0

Programmable electronic thermostat with LCD display (2 and 4 pipe fan coil units)

Main functions:

temperature and set point display on backlit LCD - real time clock



Programmable functions for 2 and 4 pipes system: temperature control - automatic speed motor control - ECM motor control - modulating (0-10Vdc) or on-off valves control - electric heating control - economy function - window contact - remote sensors inputs - antifreeze function - filter dust control - auxiliary input

Installation:

- wall-mounted (surface mounting with centres for box 503)
- directly on board unit (*). Air intake sensor is required.

Power supply: 230 Vac 50 Hz - Contact rating: 1A

Applications: control of units which require automatic functions and modulation of the power of the unit to improve indoor comfort.

i-Digit 1 i-Digit 2 i-Digit 3

Programmable electronic thermostat with LCD display (2 and 4 pipe fan coil units)

Main functions:

temperature and set point display on backlit LCD - real time clock



Programmable functions for 2 and 4 pipes system	i-Digit 0	i-Digit 1	i-Digit 2	i-Digit 3
Temperature control	✓	✓	✓	✓
Automatic fan speed control	✓	✓	✓	✓
Modulating fan control	✓	✓	✓	✓
Modulating (0-10Vdc) or on-off valves control	✓	✓	✓	✓
Electric heating control	✓	✓	✓	✓
Economy function	✓	✓	✓	✓
Window contact	✓	✓	✓	✓
Remote sensors inputs	✓	✓	✓	✓
Antifreeze function	✓	✓	✓	✓
Filter dust control	✓	✓	✓	✓
Supervising functions using Modbus protocol		✓	✓	✓
Humidity control		✓		✓
Fan alarm control - output free contact			✓	✓
Auxiliary input	✓	✓	✓	✓

Installation:

- wall-mounted (surface mounting with centres for box 503)
- directly on board unit (*). Air intake sensor is required.

Power supply: 230 Vac 50 Hz. - Contact rating: 1A

Applications: control of units which require automatic functions and modulation of the power of the unit to improve indoor comfort.

(* AIR unit only)

QCB

Base control panel



Control for 2/4 pipes units without room temperature control.

Main functions: switching the unit on and off - manual heating/off/cooling selection - manual 3 speed setting

Installation: on board unit
 Power supply: 230 Vac 50 Hz
 Input for minimum water temperature thermostat (bimetallic contact).
 2 outputs for on-off type valve 230 Vac.

Applications: control for a single unit in hotel rooms, offices and dwellings where a built-in temperature controller is not required.
 Suitable for 2 pipe system, 2 pipe system + valve, 4 pipe system + 2 valves with manual heating/cooling change-over (minimum water temperature thermostat TC is necessary)

QCL / QEL

Sheet base control panel



Unit controller without environment temperature control.

Main functions: switching the unit on and off - manual heating/cooling selection - manual 3 speed setting

Installation: on board unit
 Power supply: 230 Vac 50 Hz.

Applications: control of a single unit where manual functions are required.
 Suitable for 2 pipe system, 2 pipe system + valve, 4 pipe system + 2 valves with heating/cooling manual switching.

QTE / QTM

Base control panel with electronic room thermostat / electromechanical bulb thermostat

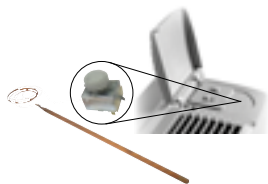


QTE: electronic thermostat
 QTM: electromechanical electronic

Main functions: switching the unit on and off - room temperature adjustment - manual heating/off/cooling selection - manual 3 speed setting

Installation: on board unit
 Power supply: 230 Vac 50 Hz.
 Input for minimum water temperature thermostat (bimetallic contact)
 2 outputs for on-off type valve 230 Vac.

Applications: control for a single unit where manually controlled functions and precise automatic room temperature adjustment are required. Suitable for 2 pipe system, 2 pipe system + valve, 4 pipe system + 2 valves with manual heating/cooling changeover.



TC

Water low temperature thermostat



Low temperature thermostat - minimum water temperature (35°C bimetallic contact).
Installation: on board unit, designed for insertion between exchanger fins.

Applications: suitable for a single 2 or 4 pipe unit connected to either heat pump or boiler.
In the 4 pipe unit the thermostat shall be installed in the heat exchanger.

TC-B

Water low temperature strap fastening thermostat



Minimum water temperature thermostat (bimetallic contact 38°C)
Installation: on board unit, designed for fixed on pipe with special spring collar.

Applications: suitable for a single 2 or 4 pipe unit connected to either heat pump or boiler.

-

Antifreeze thermostat for fan coil units



Antifreeze thermostat with automatic reset for battery safety and check for external air temperature in presence of motorized damper.

The sensitive bulb shall be inserted between two battery fins or in presence of outdoor air intake motorized gate in the intake gate.

Installation: on board unit. Power supply: 230 Vac - Output: 5 A

Applications: suitable for a single unit.
It shall ensure that the battery or external air temperature does not decrease below a preset warning value of 5°C.

37T

Automatic heating/cooling changeover



Automatic heating/cooling changeover switch to be used with basic control panel with room temperature remote bulb thermostat and thermostats with heating/cooling changeover input from mechanic changeover.

Installation: on board unit (designed for fixing to pipe with relative steel clip).

Applications: to be installed on a single unit.
Suitable for 2 pipe system, 2 pipe system + 3 way valves (it must be installed upstream of the valve on the water delivery pipe).

-

Wall humidistat



Humidistat to monitor environment relative humidity.

Installation: wall-mounted

Applications:
Dehumidification: activation of the unit in cooling mode.
N.B.:

- 1) The humidistat, being provided with a switching contact, cannot control the three fan speeds.
- 2) The output (switching contact) must be interfaced with a relay according to installation/system requirements.

TRI/F1 2.0

Remote control + Motherboard + Receiver

Infrared remote controller or wall controller with MODbus communication protocol.



Main functions: switching the unit on and off - manual and automatic heating/cooling selection - manual and automatic 3 speed setting - setting the required temperature - ECM/asynchronous motor control - automatic and manual changeover switch (2 and 4 pipe units) - on-off valves control, 2 and 3 ways - on/off electric heater control with aftercooling - stratification prevention - automatic stand-by in absence of hot/cold water - master-Slave control in the local network - control (Slave) by supervision (MODbus) - in MODbus, all functions are remotely managed - functions setting through DIP Switch - sensors and water temperature alarm

Installation: on board unit. Controls regulation manageable by remote control or wall control
Power supply: 230 Vac 50/60 Hz - Contact rating: 1 A

Applications: control of a single unit where automated functions and modulating unit flow's power are required to improve environmental comfort.

CD11

Control for unit without temperature control



Main functions: switching the unit on and off - manual heating/off/cooling selection - manual 3 speed setting

Installation: wall-mounted (surface mounting).
Power supply: 230 Vac 50 Hz - Contact rating: 5 (1,5) A

Applications: control for a single unit in environments where automatic temperature control (with thermostat) is not required. Suitable for 2 pipe system.

i-10

Analog electronic thermostat (2 and 4 pipe units)



Main functions: switching the unit on and off - room temperature adjustment - manual heating/cooling selection - manual 3 speed setting

Installation:

- wall-mounted (surface mounting with centres for box 503)
- directly on board unit. Air intake sensor is required.

Power supply: 230 Vac 50/60 Hz - Contact rating: 5 (1) A

Inputs for air intake sensor and for minimum water temperature thermostat (bimetallic contact), 2 outputs for on-off type valve 230 Vac.

Applications: control of a single unit. Suitable for 2 pipe system, 2 pipe system + valve, 4 pipe system + 2 valves with manual heating/cooling changeover.

i-20

Analog electronic thermostat (2 pipe units)



Main functions: switching the unit on and off - room temperature adjustment (internal air sensor) - off/on/manual selection - manual 3 speed setting

Installation:

- wall-mounted (surface mounting with centres for box 503)
- directly on board unit. Air intake sensor is required.

Power supply: 230 Vac 50/60 Hz - Contact rating: 5 (1) A

Input for heating/cooling changeover: central control (from remote changeover switch) or automatic (with changeover switch 37T). input for air intake sensor.

Output for on-off type valve 230 Vac.

Applications: thermostat for the control of a single unit where a central or automatic heating/cooling function is required. Suitable for 2 pipe system, 2 pipe system + valve.

i-25

Analog electronic thermostat (4 pipe units)

Main functions: switching the unit on and off - room temperature adjustment - automatic heating/cooling selection with adjustable neutral zone - manual 3 speed setting



Installation:

- wall-mounted (surface mounting with centres for box 503)
- directly on board unit. Air intake sensor is required.

Power supply: 230 Vac 50/60 Hz - Contact rating: 5 (1) A

Input for air intake sensor, 2 outputs for on-off type valves 230 Vac.

Applications: Thermostat for the control of a single unit where an automatic heating/cooling function with neutral zone is required. Suitable for 4 pipe system + 2 valves.

i-30

Programmable electronic thermostat with LCD display

Main functions: switching the unit on and off - room temperature adjustment - manual or automatic heating/cooling selection - manual or automatic 3 speed setting - display for reading/displaying room and set point temperature - control of modulating valves (0-10 Vdc) and ECM or asynchronous motor - on/off valves and modulating motor - programmability of functions - **ON/OFF VALVES AND ASYNCHRONOUS MOTOR NON COMPATIBLE**

Installation:

- wall-mounted (surface mounting with centres for box 503)
- directly on board unit (*). Air intake sensor is required.



Power supply:

- 230 Vac 50/60 Hz (for use with modulating valves 230 Vac),
- 24 Vac 50/60 Hz (for use with modulating valves 24 Vac).

Inputs for air intake sensor, minimum water temperature thermostat/sensor or window contact, central heating/cooling changeover.

State of filter control; function: economy, frost protection, stratification prevention.

2 outputs for modulating valves (0-10 Vdc), 1 output for ECM motor, output for 3-speed motor.

Possibility of control for extra electric heater.

Applications: control of a single unit i where automated functions or fine modulating of the flow of water to the unit are required to improve environmental comfort.

Suitable for 2 pipe system, 2 pipe system + modulating valve + possible electric heater, 4 pipe system + 2 modulating valves with automatic or manual changeover between heating/cooling.

Important: when used with 24 Vac valves, the thermostat must be powered through a 230/24 Vac transformer.

i-50

Programmable electronic thermostat with LCD display

Main functions: switching the unit on and off - room temperature adjustment - manual or automatic heating/cooling selection - manual or automatic 3 speed setting - display for reading/displaying room and set point temperature - control of on/off and floating (3-point) valves - control of electric heater - programmability of functions

Installation:

- wall-mounted (surface mounting with centres for box 503)
- directly on board unit (*). Air intake sensor is required.



Power supply:

- 30 Vac 50/60 Hz (for use with modulating valves 230 Vac),
- 24 Vac 50/60 Hz (for use with modulating valves 24 Vac).

Inputs for air intake sensor, minimum water temperature thermostat/sensor or window contact, central heating/cooling changeover.

State of filter control; function economy, frost protection, stratification prevention.

2 outputs for on/off type or floating (3-point) valves.

Possibility of control for extra electric heater.

Applications: control of a single unit where automated functions or the possibility of modulating the flow of water to the unit are required to improve environmental comfort.

Suitable for: 2 pipe system, 2 pipe system + valve + possible electric heater, 4 pipe system + 2 valves with automatic or manual changeover between heating/cooling with neutral zone.

Important: when used with 24 Vac valves, the thermostat must be powered through a 230/24 Vac transformer.

(*) VCE unit only

i-60

Touch fan coil thermostat with WiFi connection



Main functions:

WiFi connection for remote control of the fan coil using the app - backlit touch display - approaching sensor - switching the unit on and off (manual and time-controlled) - 7 days 4 periods programmable - room temperature adjustment - manual or automatic heating/cooling selection - manual and automatic 3 speed setting - on/off 230 Vca valve unit control

Installation: wall-mounted

Mounting: flush or wall box (not included)

External thermostat dimensions: 86x86x40mm

Wall box (not included): flush or wall mounting box specific for thermostats size 86x86mm, minimum depth of 48mm. Hole pitch: 60 mm

Power supply: 85-250 Vac 50/60 Hz - Contact rating: 2 (1) A

No. 2 output for on/off valves 230 Vac

No. 3 output for speed asynchronous motor 230 Vac

Internal WiFi antenna included

Applications: temperature control in residential or commercial area, equipped with fan coil with 3-speed asynchronous motor in a 2 or 4-pipe system. In the presence of a WiFi network, remote control is possible using the App supplied and operating on Android and iOS systems. Using the App it is possible to control the room temperature, change it, switch the fan coil on/off, change the heating/cooling mode, change the rotation speed of the motor. The same App allows simultaneous control of multiple thermostats of the same type.

i-70

Touch programmable electronic thermostat with MODbus/BACnet protocol communication



Touch programmable electronic thermostat with MODbus/BACnet protocol communication (unit 2 and 4 pipe system)

Main functions: Rs485 MODbus communication port and BACnet for supervisions - CO₂ or RH% integrated sensors (options) - backlit touch display - function configuration using dip switches - ECM and asynchronous motor management - management of modulating valves 0-10 V and on-off - single and two-stage electric heater management - underfloor heating and fan coil management for cooling only - window contact / occupancy - economy function - filter status check

Installation: wall-mounted (embedded in box 503)

Power supply: 230 Vac 50/60 Hz - Contact rating: 3 (1) A

Applications: temperature control in residential or commercial area, equipped with fan coil in 2 or 4 pipe system. optional CO₂ control; optional RH% control.

503FA

Electronic thermostat with LCD display



Pic.: black external cover (optional)

Main functions: switching the unit on and off - room temperature adjustment - manual or automatic heating/cooling selection with neutral zone - manual or automatic 3 speed setting - display for reading/displaying room and set point temperature - on-off valve control

Installation: wall mounted, (embedded in box 503)

Power supply: 230 Vac 50 Hz. - Contact rating: 3 (1) A

Input for minimum temperature sensor (sensor included).

Applications: control of a single unit where a combination of precision and modern design is required. Embedded in box 503.

Suitable for 2 pipe system, 2 pipe system + valve, 4 pipe system + 2 valves with automatic heating/cooling changeover with neutral zone.

503 CT

Chronothermostat with LCD display



Pic.: black external cover (optional)

Chronothermostat for switch on/off based on time and environment temperature of single or multiple fan coils, or circulation pump or zone valve opening/closing.

Main functions: weekly 24h programming - two temperature levels - environment temperature control - manual heating/cooling selection

Display to read/display environment temperature, set point, current time, daily/weekly program.

Installation: wall mounted, embedded in box 503.

Power supply: 230Vac/50Hz - Contact rating: 5 (0,5) A

Applications: it is suitable for offices and homes where automatic switch on/off of a heating/cooling system is required for comfort and energy saving. It cannot manage the 3 fan speeds.

TA/1

Electronic regulator



Main functions: switching the circulating pump on and off or opening/closing the zone valve - room temperature adjustment - manual off/heating/cooling selection - remote air sensor input

Installation: wall-mounted (surface mounting).

Power supply: 230 Vac 50 Hz - Contact rating: 5 (1) A

Applications: control of a single zone valve or circulating pump. Suitable for 2 pipe system. It cannot manage the 3 fan speeds.

COM-V

Changeover switch with slide selector (VIMAR)



Main functions: switching the fan on and off - manual 3 speed setting

Installation: wall mounted, embedded in box 503.

Power supply: 230 Vac 50 Hz - Contact rating: 2 A

Applications: speed control of one single fan.

COM-B

Changeover switch with rotary selector (Bticino)



Main functions: switching the fan on and off - manual 3 speed setting

Installation: wall mounted, embedded in box 503.

Power supply: 230 Vac 50 Hz - Contact rating: 3 A

Applications: speed control of one single fan.

S-Mod

Supervision system



Wall user interface



Floor router



Fan coil card
(cover=accessory)



Infrared remote control

Controllers suitable for the connection to supervision systems.

These are electronic cards to be installed on the unit to control the room temperature and all unit functions. The cards are equipped with serial communication port type RS485 for connection to MODbus, BACnet or proprietary (MX) supervision systems, based on the card model.

Each card can be connected to the user interface to be installed on the wall.

The interface allow the user to turn on/off the unit, change the room temperature, change the speed, choose the heating/cooling mode, etc.

Alternatively to the user interface, it is possible to connect the IR receiver and use the IR remote control as an interface with the same functions above.

With the IR remote control is also possible to set a time to switch on and off.

If connected to supervision system, the cards can be managed remotely in all their functions based on the characteristics of the supervision software.

Main functions: temperature control of an environment/zone - on/off or modulating valves control - ECM or asynchronous motor control - manual and automatic 3-speed selection - manual or automatic heating/cooling selection - time slot setting and operation - temperature set point threshold - alarm status

Applications: local and remote control of a system composed of several fan coils distributed within a building and for which you want to set similar functions or plan start-up/turn-off at predefined times without having a physically access to each unit.

The system is suitable for 2 and 4 pipe fans with asynchronous or ECM motor and on-off or modulating valves.

FAN 01

Configurable fan coil controller with BACnet communication protocol



Main functions:

RS485 BACnet communication port for supervision - room temperature control - supply temperature control - manual / automatic change/over - occupy/unoccupy room contact - temporary occupancy input - window contact - dew point sensor input - Soft-Start coil sensor - output for ECM and asynchronous motor - outputs for modulating and on-off valves - electric heater output - 24 Vac output for supplying modulating valves - wall-mounted user interface with or without display - Webserver FAN01WEB (optional) with Ethernet converter and integrated WiFi for centralized management - dip switches for function configuration and addressing

Installation: on board unit on the DIN bar, or with screw-mounted installation.

Power supply: 230 Vac 50/60 Hz

User interface for wall-installation

7 on-off output and 3 modulating for motor and valves.

4 digital inputs for command signals

4 analog inputs for NTC probes

Applications: control of fan coil or ductable unit where automated functions are required and connection to BACnet supervisor or via Ethernet / WiFi web server (optional).

Suitable for 2-pipe and 4-pipe systems, with possible additional electric heater.

KNX

KNX regulation for fan coils



On request, KNX objects are supplied for the control of fan coils.

For detailed information, contact the sales departments.

UCP

Unit control panel

The UCP system consists of two parts: on-board card and unit control panel with display.

The panel allows the room temperature both in heating and cooling operation, allows to enable/disable the water coil or the electric heater, select the fan operating speed minimum, medium, maximum regulation and controls the free-cooling function by input from NTC probes.



Main functions:

- switching the unit on and off
- manual heating / cooling selection
- manual and automatic speed selection (3 speed motor)
- time schedule
- wall-mounted installation (surface mounting)

Technical characteristics:

Power supply: 230 -10/+10% Vac, 50 Hz
 Max load: 1A at 230Vac
 Type of protection: IP 21
 Working temperature: +5°C / +35°C

UCP-ECM

Unit control panel

There are different versions depending on the intended function.

The panel allows the room temperature both in heating and cooling operation, allows to enable/disable the water coil or the electric heater, selects the working speed of the fan by means of modulating regulation and manages the free-cooling function by input from NTC probes.

Ventilation control according to ambient air quality (UCPM-ECM version)



Main functions:

- switching on and off the unit;
- manual heating/cooling selection;
- manual and automatic speed selection (0-10VDC modulating motor)
- time schedule
- MODbus supervision (MODbus version)
- wall-mounted installation (surface mounting)

Technical characteristics:

Power supply: 230 -10/+10% Vac, 50 Hz
 Max load: 1A at 230Vac
 Type of protection: IP 21
 Working temperature: +5°C / +35°C

CD11

Speed controller

Control without temperature regulation.

Main functions:

- switching on and off the unit;
- manual heating/cooling selection;
- manual 3-speed selection
- wall-mounted installation (surface mounting)

Technical characteristics:

Power supply: 230 -15/+10% Vac, 50 Hz
 Max load: 5A at 250Vac
 Type of protection: IP 30
 Working temperature: 0°C / +40°C



EBF-SHE and EBF-HHE controllers

- Integrated management system IMS-I



The IMS system allows the integrated management of all heat recovery unit functions.

Main functions:

- air flow control, manually or by sensor
- automatic free-cooling (by turning on heat recovery by-pass device)
- antifreeze protection (without any additional antifreeze thermostat)
- heat recovery defrost
- control of water valves (both on/off and modulating type)
- on/off control of electric heater
- remote on/off input
- on/off output for contemporary auxiliary devices
- weekly program
- alarm management (sensor failure, air filter dirty)
- MODbus supervision (accessory)
- available for installation on the unit (IMS-I) or remote (IMS-R)

Technical characteristics:

Power supply: 230 -10/+10% Vac, 50 Hz

Type of protection: IP 30

Working temperature: +5°C / +35°C

- IMS remote user terminal



Accessory for IMS system

- MODbus supervision module for Integral Management System (IMS)

Accessory for IMS system

It adds the compatibility with the MODbus communication protocol to the system, for the supervision of the unit's operating parameters.

- CO₂ sensor



Suitable for ventilation controlling according to ambient air quality. Available in version for duct installation and in the room.

- Humidity sensor



Suitable for ventilation controlling according to ambient air quality. Available in version for duct installation and in the room.

The diagrams, the descriptions and the pictures shown herein are merely indicative and in no way binding. In order to continuously improve and in view of constant research and development, A GROUP S.p.A. reserves the right to modify, also without prior notice, technical data and all the contents included in this document.

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