EURAPO

INTEGRATED
COMFORT
SYSTEMS

PRODUCTS GUIDE



EURAPO

INTEGRATED COMFORT SYSTEMS

Founded in Pordenone in 1979, **EURAPO** has grown and developed as part of the state-of-the-art industrial scenario of North-East Italy.
EURAPO is specialized in the production of heating and air conditioning units. The Company has always fostered a serene, well-organised working environment where employee participation is encouraged.

Here several decades of invaluable experience are pitted against new human resources and projects, in a constructive exchange of ideas between generations, making **EURAPO** a young, proactive, creative company.

As well as these consolidated qualities, **EURAPO** products are now available with innovative features: a smart, made in Italy design for the fan coil unit range, ducted units with high performances, from the traditional regulation system to the great potential of Omnibus, the new sophisticate digital system even for BMS systems.

EURAPO products are well known for energy efficiency, certified performances, highly resistant materials, great emphasis on safety in order to make installation as simple as possible.

Highly customised products designed to meet specific system requirements providing a wide range of different technical and aesthetic solutions. Products are strictly subjected to systematic controls before being introduced onto the market, equipped with accessories and properly wired up.

This comprehensive approach has enabled the Company to gain the loyalty of a highly-demanding, prestigious world market, with privileged outlets in Italy and in many countries in Central and Northern Europe.

And with new prospects for border-free development.

IP & corrosion chamber
00 lab.

climate chamber
01 lab.

aeraulic tunnels
02 lab.

LABORATORIES

The Eurapo technical laboratories, created in collaboration with the University of Padua in strict compliance with the reference regulations and market standards (Eurovent), were designed pursuing the following objectives:

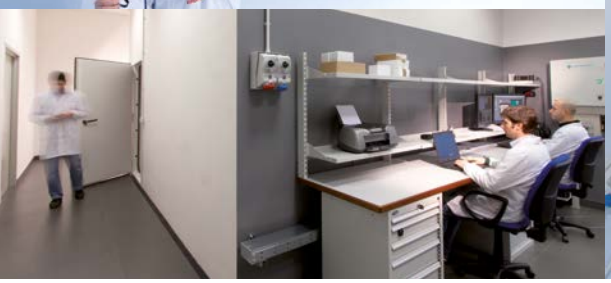
- differentiate the offered products through the continuous and constant research of innovative technical and technological solutions, which follow or anticipate global markets' dynamics;
- improve products' quality, efficiency, performances, security and reliability;
- ensure performances of the offered products by running periodic tests and making analysis on the results;
- improve the technical support offered to their customers, by providing accurate, reliable and customized solutions with a very short response time;
- consolidate their presence in an increasingly competitive market;
- strengthen the engineering and technical relationships with their industrial and business partners.

The laboratories, which cover an area of over 400 square meters, can measure aeraulic, acoustic and thermal performances of all Eurapo products, both ducted and non-ducted, and consist of:

- The **IP (Ingress Protection) TESTS CHAMBER** is used to ensure the protection against rain and water splashes of the electrical enclosures (IPX3 and IPX4 ratings) in accordance with the requirements of EN IEC 60335-1 and EN IEC 60529 regulations.

- The **CHAMBER FOR SALT SPRAY**, humidity and cyclic corrosion tests is dedicated to check the corrosion resistance of metallic materials in compliance with the required testing methods indicated by the UNI EN ISO 9227 e EN IEC 60068-2-52 regulations. The test consists of a saline solution nebulized

reverberation rooms 03 lab.



inside the chamber (the bottom is filled with water) obtaining a dense corrosive fog thanks to the use of compressed air saturated with water and from which any oily residues have been eliminated.

- A **CLIMATE CHAMBER**, which measures heating and cooling capacities and can test units with heating capacities from 0,5 kW to 40 kW and cooling capacities from 0,5 kW to 30 kW. It has been manufactured in compliance with EN 1397 standards and Eurovent standards: test method for Fan Coil units and test method for Ducted Fan Coil units.

- Two **AERAULIC TUNNELS**, a standard one and an enthalpy one, which are sized to ensure a correct measurement of the air flow from 100 m³/h to 6000 m³/h. The two tunnels have been manufactured according to ISO 5801 standards and to Eurovent standards: test method for Fan Coil units and test method for Ducted Fan Coil units.

- Two **REVERBERATION ROOMS**, designed to measure very low sound power levels, with range of frequency between 100Hz and 10000Hz, in accordance with the methods of measurements described in UNI EN ISO 3740, UNI EN ISO 3741and UNI EN ISO 5135 standards. Each room complies with Eurovent standards (Acoustical testing of Fan Coil Units). The two rooms are connected by an air duct to run acoustic test on ducted units, in compliance with Eurovent standards.

The laboratories represent the highest evolution in terms of technological solutions that make them unique in Italy.
With the new technical laboratories, **research, development and innovation** become strongly and increasingly an integral part of the Eurapo corporate mission, to pursue the goal of continuous improvement.

Products

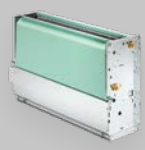


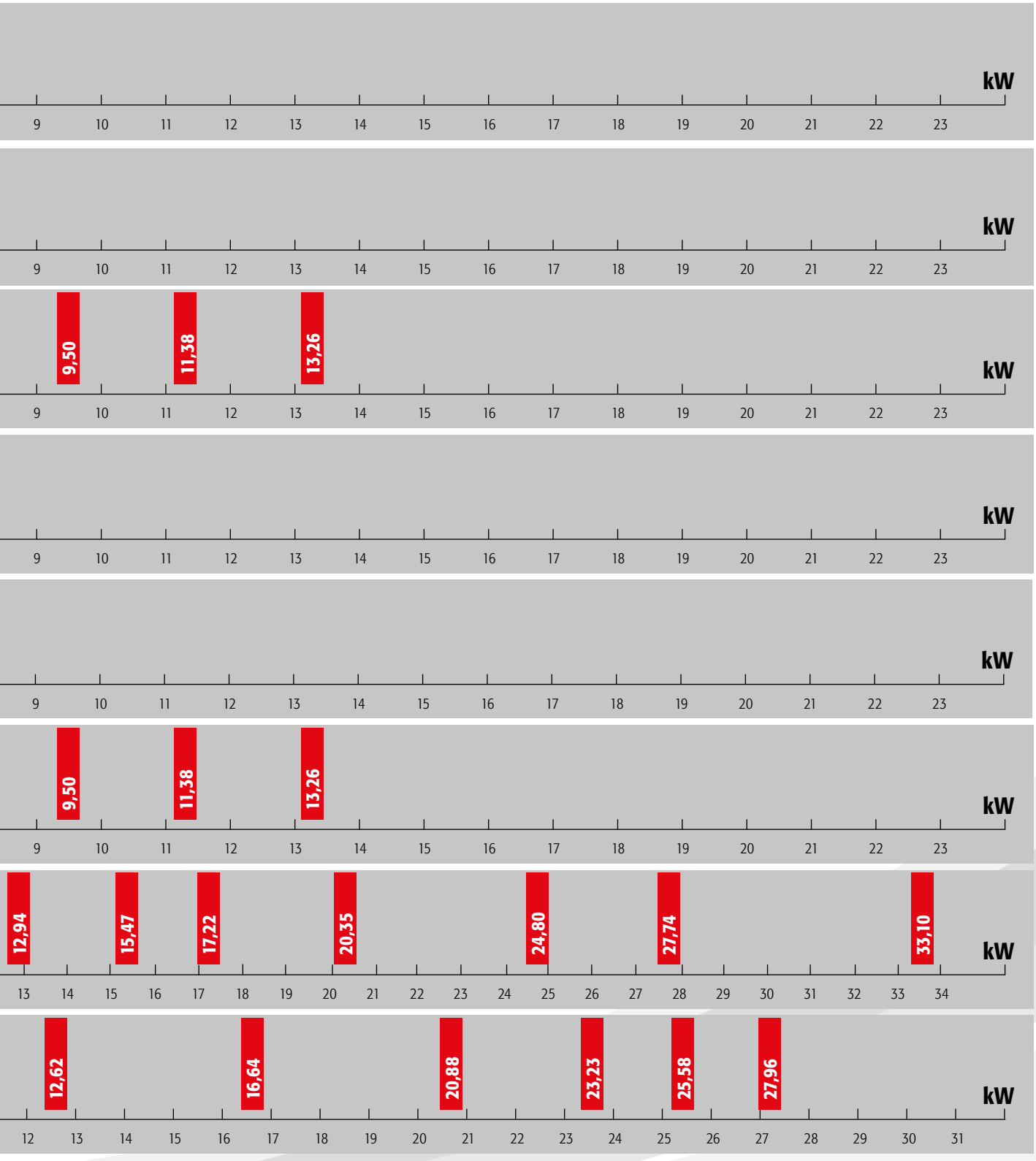











kW
9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
kW
9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
9,50
11,38
13,26
kW
9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
kW
9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
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9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
9,50
11,38
13,26
kW
9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
12,94
15,47
17,22
20,35
24,80
27,74
33,10
kW
13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34
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kW
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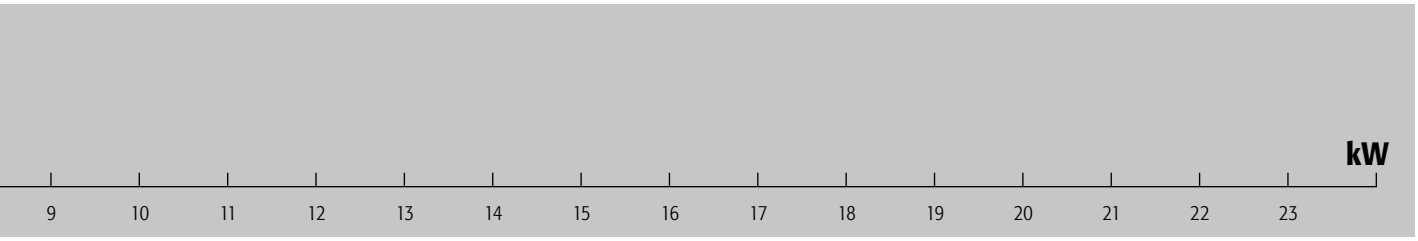
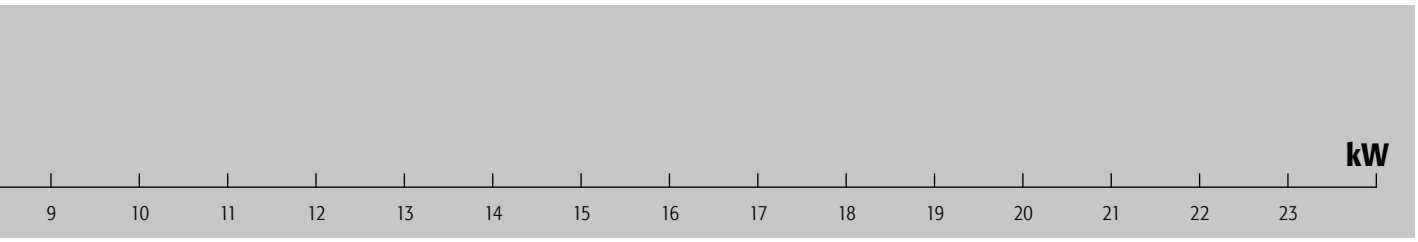
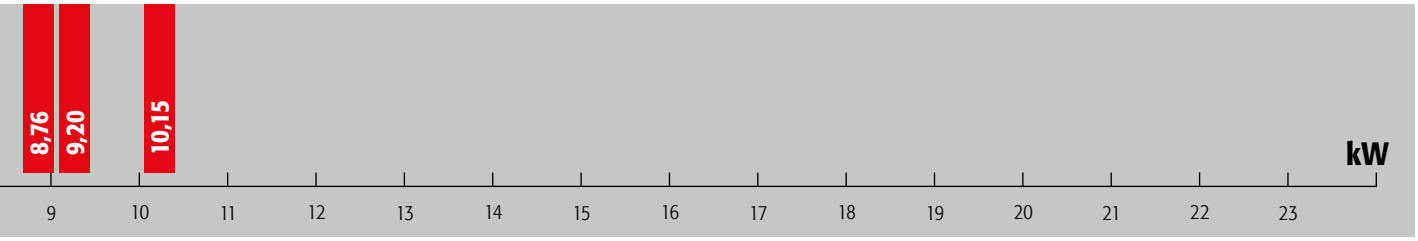
Products

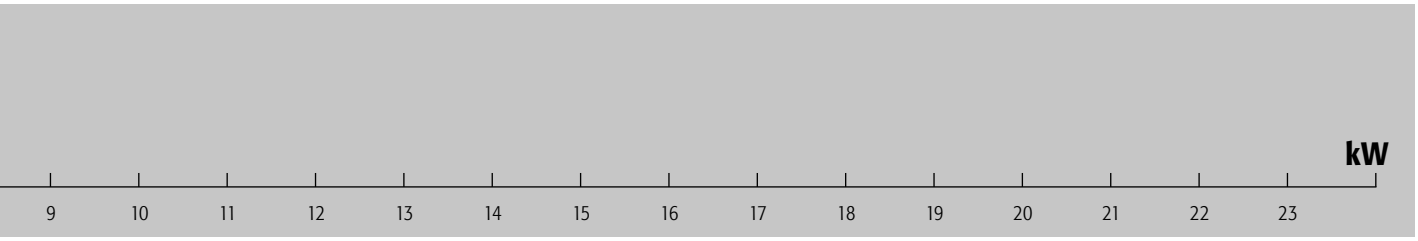


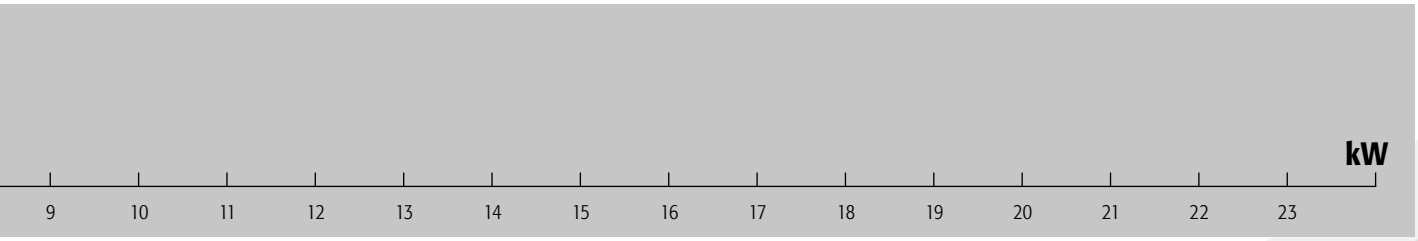




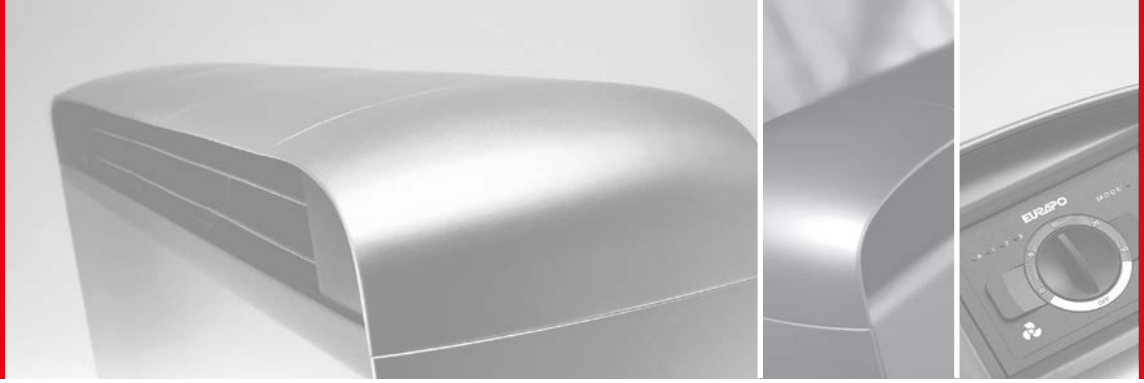






OMNIBUS 360
BUILDING MANAGEMENT SYSTEM

EURION



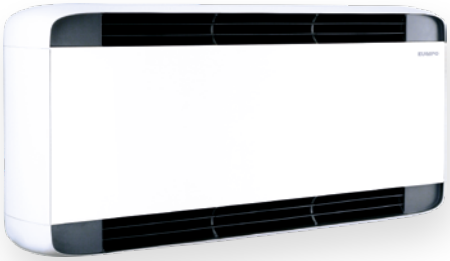
SPHERA MODEL, FOR HEATING AND COOLING, 2 AND 4 PIPES, CAPACITY FROM 0,8 kW TO 3,52 kW.

EURION READY

mod. ESF

mod. ESF LUX

mod. ESW



mod. ESW LUX

Thanks to its elegant and refined design, extremely silent and compact, **SPHERA** fancoil is suitable for creating comfort and closeness in every style.
Smart and versatile, **SPHERA** fancoil is available for wall or floor installation and can be combined with the newest EURAPO controls: from the traditional mechanical or microprocessor controls to those innovative digital controls, which can be integrated to the Building Automation System.

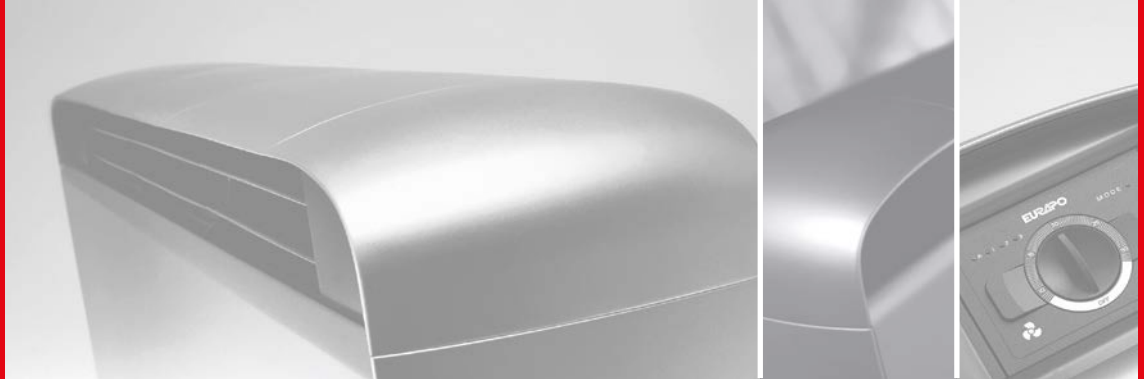
SPHERA fancoil rises from EURAPO well-established experience by word of reliability, competence as well as continuous technical and design research. **SPHERA** is definitely a revolutionary way to think about a fancoil.

TECHNICAL DATA (max speed-EST)

			20	40
Cooling **2 pipes** Air temperature 27 °C d.b., 19 °C w.b. Water temperature 7/12 °C	Total cooling capacity [kW]		2,03	3,46
	Sensible cooling capacity [kW]		1,69	2,83
	Water flow [l/h]		349	596
	Pressure drop [kPa]		3,5	16,4
Heating **2 pipes** Air temperature 20 °C Inlet water temperature 45/40 °C	Heating capacity [kW]		2,55	3,75
	Water flow [l/h]		439	645
	Pressure drop [kPa]		4,6	16,5
Heating **4 pipes** Air temperature 20 °C Water temperature 65/55 °C	Heating capacity [kW]		1,95	2,97
	Water flow [l/h]		168	256
	Pressure drop [kPa]		3,7	6,9
Further data	Air flow [m³/h]		387	618
	Sound power level [dB(A)]		56,0	62,0
	Sound pressure level [dB(A)]		46,6	52,6
	Power input [W]		33	50
	Absorbed current [A]		0,33	0,46
	Water content [l] (2 pipes)		0,87	1,32

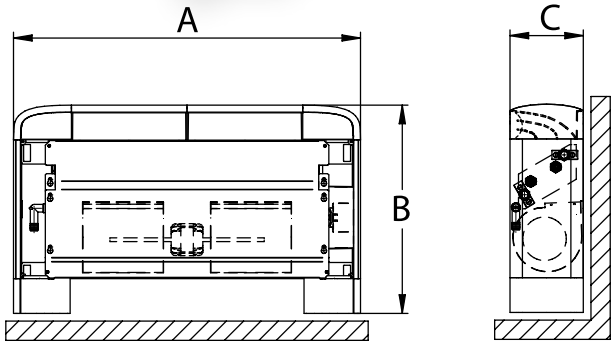
TECHNICAL DATA (max speed-asynchronous)

			20	40
Cooling **2 pipes** Air temperature 27 °C d.b., 19 °C w.b. Water temperature 7/12 °C	Total cooling capacity [kW]		1,94	3,12
	Sensible cooling capacity [kW]		1,58	2,48
	Water flow [l/h]		334	537
	Pressure drop [kPa]		3,3	13,6
Heating **2 pipes** Air temperature 20 °C Inlet water temperature 45/40 °C	Heating capacity [kW]		2,21	3,44
	Water flow [l/h]		380	592
	Pressure drop [kPa]		4,7	14,0
Heating **4 pipes** Air temperature 20 °C Water temperature 65/55 °C	Heating capacity [kW]		1,84	2,71
	Water flow [l/h]		158	233
	Pressure drop [kPa]		2,7	5,7
Further data	Air flow [m³/h]		346	511
	Sound power level [dB(A)]		52,0	58,0
	Sound pressure level [dB(A)]		42,6	48,6
	Power input [W]		54	85
	Absorbed current [A]		0,24	0,38
	Water content [l] (2 pipe)		0,87	1,32

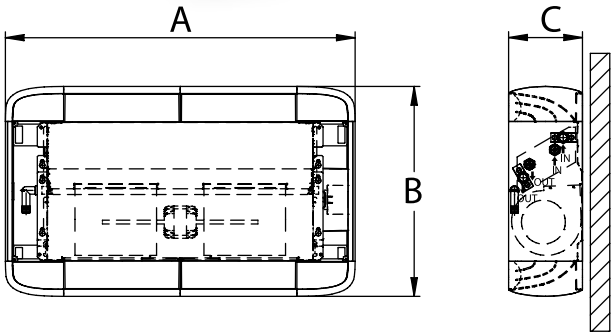


DIMENSIONS

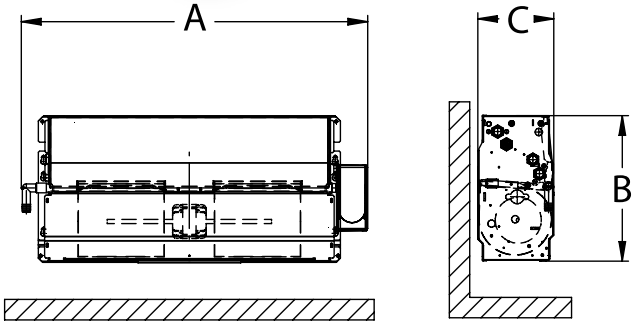
mod. ESF



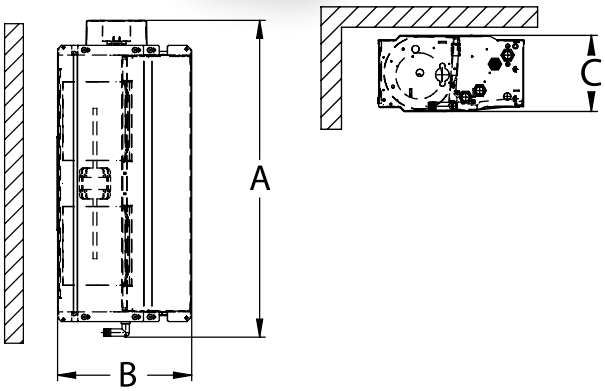
mod. ESW



mod. ECV



mod. ECH



Dimensions (mm) and weights ESF

	20	40
A	900	1200
B	540	540
C	190	190
kg	19	27
Water connections 1/2" G F		

Dimensions (mm) and weights ESW

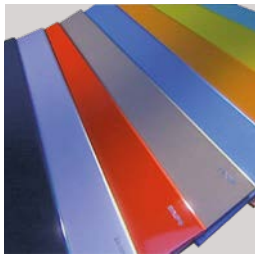
	20	40
A	900	1200
B	540	540
C	190	190
kg	20	29
Water connections 1/2" G F		

Dimensions (mm) and weights ECV - ECH

	20	40
A	843	1143
B	357	357
C	186	186
kg	14	20
Water connections 1/2" G F		

ACCESSORIES

KREL
Electric heater



EXTRA RAL
Special painting

DTH2902
Valve and shut off valve

PC
Condensate pump

PPV
Vertical back panel

PPV LUX
Vertical back panel

PA
Air suction plenum

PM90
90° air delivery plenum

EURION
Air ionization system
Air sanitization system

For further accessories visit our website www.eurapo.it or contact us.

OMNIBUS 360 CONTROLS

ORF10/ORBF10
OPower card for asynchronous/ brushless motors, for BMS

ORF11-ORC123
OPower card for asynchronous motors, for BMS+Console Round Inside+Air sensor at air intake

ORF11-ORC523
OPower card for asynchronous motors, for BMS+Round IR receiver+Air sensor at air intake

ORBF11-ORC123
OPower card for brushless motors, for BMS+Console Round Inside+Air sensor at air intake

ORBF11-ORC523
OPower card for brushless motors, for BMS+Round IR receiver+Air sensor at air intake

ORC515 - Round IR
Console IR receiver on wall

ORC336 - Round Analog
Console for on wall installation

ORC636 - Round Cabin
Console for on wall installation

ORC236 - Round Display
Console for on wall installation

ORC446 - Round Touch
Console for on wall installation

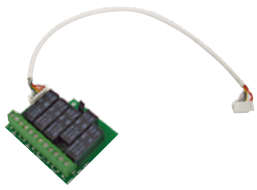
ORS736 - Round Manager
Supervisor for small system (up to 16 units)

ORS810 - Round Master
Supervisor for medium system (up to 100 units)

ORS940 - Round Net
Supervisor for large system (up to 250 units)

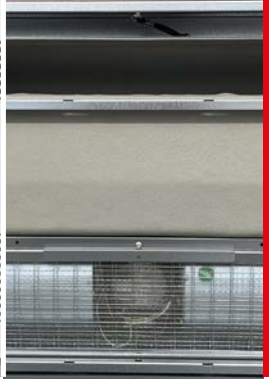
App Round Clima
Mobile App for smartphone and tablet

OIR30
Infrared remote control



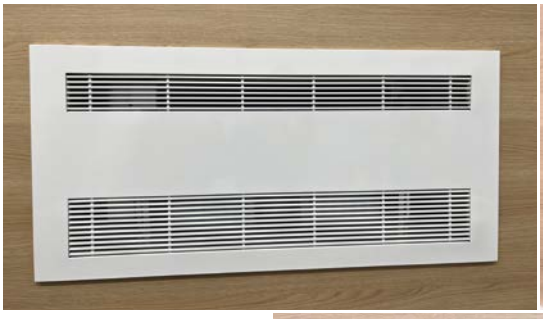
Oxx50
Multitask additional card





PHILO MODEL, CONCEALED FAN COIL UNIT, FOR HEATING AND COOLING, 2 AND 4 PIPES, CAPACITY FROM 0,8 kW TO 3,52 kW with WALL FIXING TEMPLATE and FRONTAL PANEL

EURION READY



PHILO is the solution proposed by Eurapo for the flush-to-wall installation of fan coils that allows to preserve the architectural features of the rooms by hiding the equipment from view. It consists in a **fixing template, a fan coil unit with plenum and a frontal panel with grille**.

The structure is made of DX51D+Z140 galvanised steel with a thickness of 1 mm, a height of 490 mm, a depth of 200 mm and **two selectable lengths from 1.100 mm and 1.400 mm**. In addition to the front fastening holes, PHILO has additional pre-arranged openings both in the lower and upper areas which enable alternative fixing points to allow the installation methods to be adapted to the materials in which the walls are made.

The fan coil installed in the recessed structure is provided with a thermal insulation 90° plenum. In this way the internal structure does not require any type of insulation, even if the unit housed is used for cooling. The fan coil is fixed to the fixing template on the back side using cage nuts, while the lower part is placed **on anti-vibration mounts** to avoid vibrations with the structure.

The **frontal panel** is provided painted in white **RAL9003**. Possibility to adjust the flatness of the panel with the wall even in the presence of irregularities. In this way, perfect adhesion is guaranteed by acting on special adjustment screws positioned at the ends of the structure.
If required, both the panel and the internal structure can be painted in a wide range of colours.

TECHNICAL DATA (max speed-EST)

			ESTECV/AF 20*	ESTECV/AF 40*
Cooling	Total cooling capacity [kW]		2,03	3,46
2 pipes Air temperature 27 °C d.b., 19 °C w.b. Water temperature 7/12 °C	Sensible cooling capacity [kW]		1,69	2,83
	Water flow [l/h]		349	596
	Pressure drop [kPa]		3,5	16,4
Heating	Heating capacity [kW]		2,55	3,75
2 pipes Air temperature 20 °C Inlet water temperature 45/40 °C	Water flow [l/h]		439	645
	Pressure drop [kPa]		4,6	16,5
Heating	Heating capacity [kW]		1,95	2,97
4 pipes Air temperature 20 °C Water temperature 65/55 °C	Water flow [l/h]		168	256
	Pressure drop [kPa]		3,7	6,9
Further data	Air flow [m³/h]		387	618
	Sound power level [dB(A)]		56,0	62,0
	Sound pressure level [dB(A)]		46,6	52,6
	Power input [W]		33	50
	Absorbed current [A]		0,33	0,46
	Water content [l] (2 pipes)		0,87	1,32

*correspond to Eurovent certified models with cabinet ESTESF/W 20 and 40

TECHNICAL DATA (max speed-asynchronous)

			ECV/AF 20*	ECV/AF 40*
Cooling	Total cooling capacity [kW]		1,94	3,12
2 pipes Air temperature 27 °C d.b., 19 °C w.b. Water temperature 7/12 °C	Sensible cooling capacity [kW]		1,58	2,48
	Water flow [l/h]		334	537
	Pressure drop [kPa]		3,3	13,6
Heating	Heating capacity [kW]		2,21	3,44
2 pipes Air temperature 20 °C Inlet water temperature 45/40 °C	Water flow [l/h]		380	592
	Pressure drop [kPa]		4,7	14,0
Heating	Heating capacity [kW]		1,84	2,71
4 pipes Air temperature 20 °C Water temperature 65/55 °C	Water flow [l/h]		158	233
	Pressure drop [kPa]		2,7	5,7
Further data	Air flow [m³/h]		346	511
	Sound power level [dB(A)]		52,0	58,0
	Sound pressure level [dB(A)]		42,6	48,6
	Power input [W]		54	85
	Absorbed current [A]		0,24	0,38
	Water content [l] (2 pipe)		0,87	1,32

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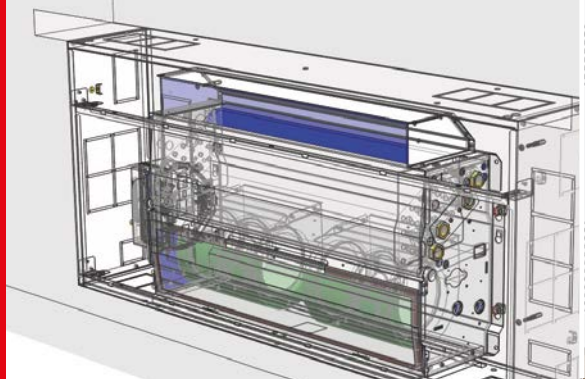
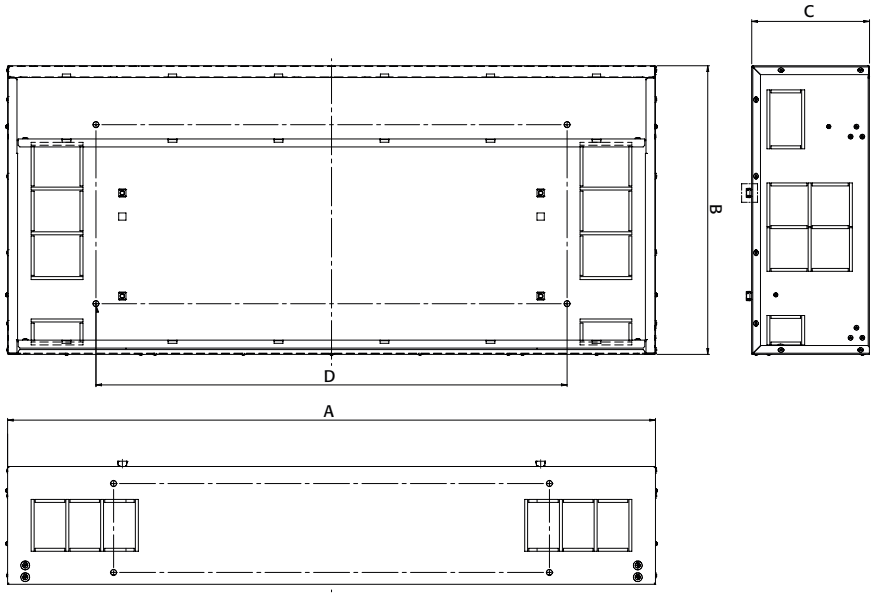
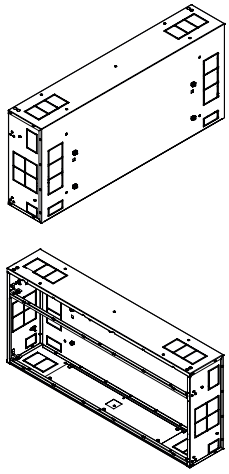


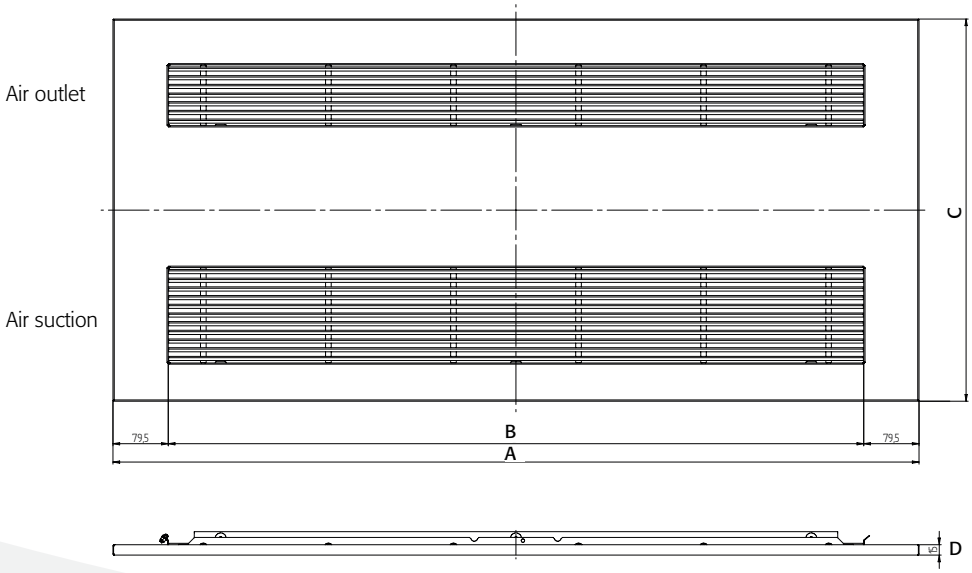
DIMENSIONS





Dimensions (mm) KSF

	20	40
A	1100	1400
B	490	490
C	200	200
D	800	1100

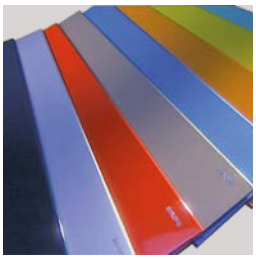


Dimensions (mm) KPHL

	20	40
A	1160	1460
B	1001	1301
C	550	550
D	15	15

ACCESSORIES

KREL
Electric heater



EXTRA RAL
Special painting

DTH2902
Valve and shut off valve

PC
Condensate pump

EURION
Air ionization system
Air sanitization system

OMNIBUS 360 CONTROLS

OMNIBUS 360
BUILDING MANAGEMENT SYSTEM

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OPower card for asynchronous/ brushless motors, for BMS

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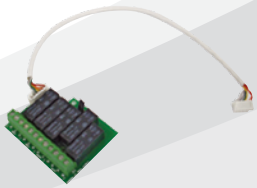


Oxx50
Multitask additional card

FAN COIL UNIT WITH CASING, FOR HEATING AND COOLING, 2 AND 4 PIPES, CAPACITY FROM 0,62 kW TO 13,26 kW.

EURION READY

mod. SV

mod. SV/AF

mod. SH

mod. SH/AF

SIGMA fancoil unit, designed by Eurapo, is versatile in different applications, discreet in the lines, reliable in the performances.

This fancoil unit, with its harmonic shapes and linearity, can be installed in every kind of environment thanks to its configuration variety: it can be installed directly on the floor, with frontal air intake, or it can stand on the floor with feet, with bottom air intake. The same configuration is available for ceiling installation: rear or bottom air intake.

The Sigma housing is manufactured with sheet steel and painted with oven dried epoxy powders, available in all RAL colours; access doors and grilles are made of heat-resistant ABS and can be turned into all four directions. Standard colour is RAL9003, white. One important element is the filter, totally retractable and easily accessible; it is particularly strong, wear and tear resistant, requiring short time for routine maintenance.

In order to make Sigma fancoil more complete, Eurapo offers a large range of accessories, from the simple electromechanical regulations and on/off valves to the advanced systems with modulating valves and digital Bus management. Sigma units are also available for **District Cooling** applications: the water coils are designed with a reduced number of circuits, suitable for functioning with high water temperature difference.

TECHNICAL DATA (3 rows, max speed-EST)

			512	514	516	520	522	524	528
Cooling	Total cooling capacity [kW]	EUROVENT	1,98	2,56	3,81	5,05	5,81	7,47	9,18
2 pipes Air temperature 27 °C d.b., 19 °C w.b. Water temperature 7/12 °C	Sensible cooling capacity [kW]	EUROVENT	1,65	2,12	3,14	3,79	4,32	6,09	7,51
	Water flow [l/h]		341	441	656	869	1000	1286	1580
	Pressure drop [kPa]	EUROVENT	9,6	9,2	14,6	16,9	36,2	16,8	31,3
Heating	Heating capacity [kW]	EUROVENT	2,05	3,04	4,40	5,76	6,53	8,43	10,40
2 pipes Air temperature 20 °C Inlet water temperature 45/40 °C	Water flow [l/h]		353	523	757	991	1124	1451	1790
	Pressure drop [kPa]	EUROVENT	10,8	10,3	17,3	21,8	40,0	17,2	43,5
Heating	Heating capacity [kW]	EUROVENT	1,63	2,39	3,20	5,00	5,55	6,46	7,90
4 pipes Air temperature 20 °C Water temperature 65/55 °C	Water flow [l/h]		158	206	275	430	478	556	680
	Pressure drop [kPa]	EUROVENT	4,7	9,3	20,2	23,3	26,8	36,0	46,2
Further data	Air flow [m³/h]		456	574	792	1082	1304	1567	1995
	Sound power level [dB(A)]	EUROVENT	55,0	59,0	60,0	57,0	62,0	63,0	69,0
	Sound pressure level [dB(A)]		45,6	49,6	50,6	47,6	52,6	53,6	59,6
	Power input [W]	EUROVENT	31	54	42	46	76	89	168
	Absorbed current [A]		0,35	0,44	0,42	0,42	0,68	0,83	1,42
	Water content [l] (2 pipes)		0,79	1,05	1,31	2,20	2,20	2,84	3,47

To obtain capacities for District Cooling solutions or for conditions different from standard ones, please use the EURAPO selection software.

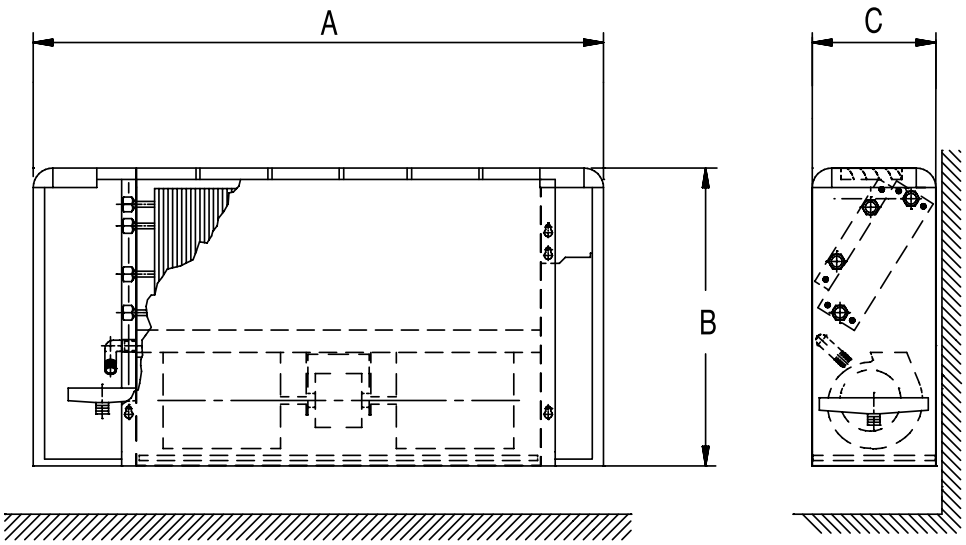
TECHNICAL DATA (3 rows, max speed-asynchronous)

			110	112	114	216	218	220	222	224	226	228.1	328
Cooling	Total cooling capacity [kW]	EUROVENT	1,11	1,59	2,14	3,30	3,50	4,44	5,07	6,43	7,25	8,86	9,73
2 pipes Air temperature 27 °C d.b., 19 °C w.b. Water temperature 7/12 °C	Sensible cooling capacity [kW]	EUROVENT	0,93	1,25	1,90	2,46	3,06	3,53	4,42	5,06	5,70	7,13	8,04
	Water flow [l/h]		191	274	368	568	602	764	873	1107	1248	1525	1675
	Pressure drop [kPa]	EUROVENT	3,4	7,1	5,8	14,8	13,6	24,1	28,4	18,8	21,0	28,7	74,6
Heating	Heating capacity [kW]	EUROVENT	1,37	1,83	2,60	3,46	4,17	4,80	6,04	6,60	7,86	9,96	10,54
2 pipes Air temperature 20 °C Inlet water temperature 45/40 °C	Water flow [l/h]		236	315	448	596	718	826	1040	1136	1353	1692	1814
	Pressure drop [kPa]	EUROVENT	4,9	6,0	6,5	14,7	16,0	23,4	27,7	18,9	25,3	29,8	82,4
Heating	Heating capacity [kW]	EUROVENT	0,91	1,31	1,93	2,79	3,20	4,33	4,92	6,16	6,30	7,97	8,00
4 pipes Air temperature 20 °C Water temperature 65/55 °C	Water flow [l/h]		78	113	166	240	275	372	423	530	542	663	688
	Pressure drop [kPa]	EUROVENT	1,3	3,4	6,7	14,7	7,1	10,3	11,7	33,0	31,7	29,8	46,5
Further data	Air flow [m³/h]		243	317	432	606	754	961	1115	1307	1507	1814	2010
	Sound power level [dB(A)]	EUROVENT	48,0	50,0	54,0	53,0	55,0	54,0	60,0	60,0	63,0	64,0	67,0
	Sound pressure level [dB(A)]		38,6	40,6	44,6	43,6	45,6	44,6	50,6	50,6	53,6	55,0	57,6
	Power input [W]	EUROVENT	46	48	57	61	76	90	117	140	162	213	213
	Absorbed current [A]		0,21	0,21	0,25	0,27	0,33	0,39	0,52	0,64	0,71	0,95	0,95
	Water content [l] (2 pipes)		0,53	0,79	1,05	1,31	1,57	2,20	2,20	2,84	2,84	3,47	3,47

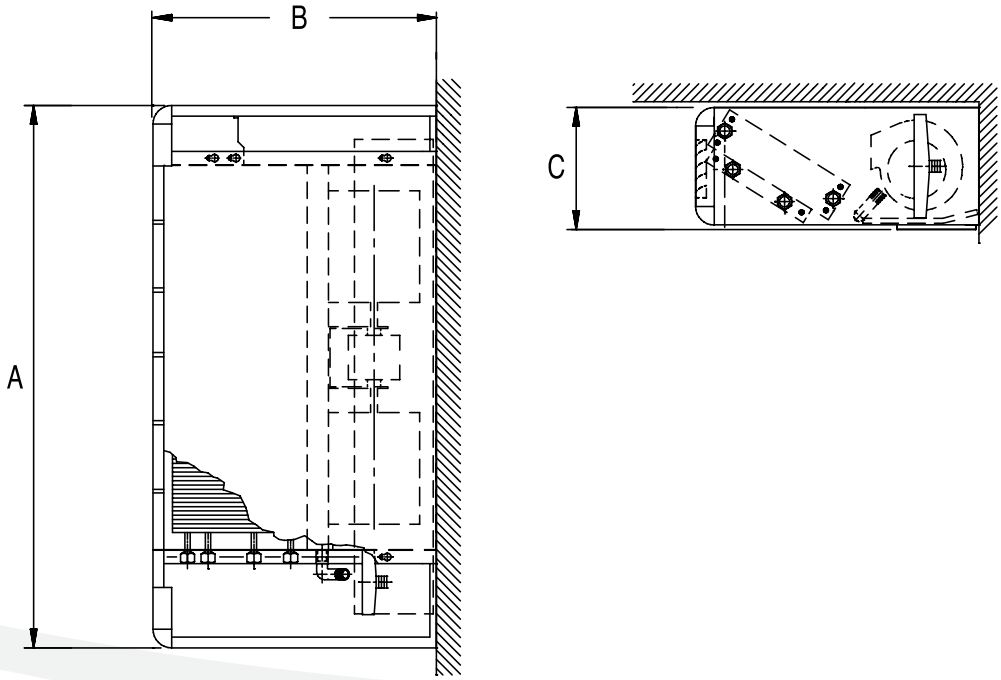
To obtain capacities for District Cooling solutions or for conditions different from standard ones, please use the EURAPO selection software.

DIMENSIONS

mod. SV and mod. SH



mod. SV/AF and mod. SH/AF



Dimensions (mm) and weights SV - SV/AF - SH - SH/AF

mod. SV

mod. SH

mod. SV/AF

mod. SH/AF

	110	112	114	216	218	220	222	224	226	228.1	328
EST	**-**	**512**	**514**	**516**	**-**	**520**	**522**	**524**	**-**	**-**	**528**
A	648	773	898	1023	1148	1273	1273	1523	1523	1773	1773
B	538	538	538	538	538	614	614	614	614	614	614
SV - SH											
C	224	224	224	224	224	254	254	254	254	254	254
kg	18	20	23	28	31	41	44	52	52	58	58
SV/AF - SH/AF											
C	233	233	233	233	233	263	263	263	263	263	263
kg	19	21	24	30	32	43	46	54	54	61	61
Water connections 1/2" G F											

ACCESSORIES

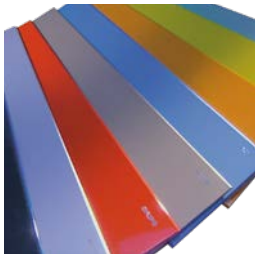
BA1
Additional heating coil 4 pipe system

KREL
Electric heater

_2A2+DT
Valve+shut-off valves

_3A2+DT
Modulating pressure indipendent valves and shut-off valves

4-PIPE COMPACT KIT
Hydraulic kit for 4-pipe system



EXTRA RAL
Special paintings

CP
Set of feet

ZL
Long socle with feet

PPV/PPH SIGMA
Vertical/horizontal back panel

PAE/HAF
Horizontal external air intake for AF models

PC
Condensate pump

EURION
Air ionization system
Air sanitization system

UV-C LED
Sanytization system LED UV-C

AFT
Anti-frost thermostat

TM
Minimum water temperature thermostat.

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OMNIBUS 360 CONTROLS

ORV10/ORBV10
OPower card for asynchronous/ brushless motors, for BMS

ORV11-ORC111
OPower card for asynchronous motors, for BMS+Console Round Inside+Air sensor at air intake

ORV11-ORC510
OPower card for asynchronous motors, for BMS+Round IR receiver+Air sensor at air intake

ORBV11-ORC111
OPower card for brushless motors, for BMS+Console Round Inside+Air sensor at air intake

ORBV11-ORC510
OPower card for brushless motors, for BMS+Round IR receiver+Air sensor at air intake

ORC515 - Round IR
Console IR receiver on wall

ORC336 - Round Analog
Console for on wall installation

ORC636 - Round Cabin
Console for on wall installation

ORC236 - Round Display
Console for on wall installation

ORC446 - Round Touch
Console for on wall installation

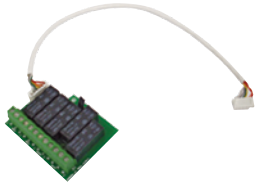
ORS736 - Round Manager
Supervisor for small system (up to 16 units)

ORS810 - Round Master
Supervisor for medium system (up to 100 units)

ORS940 - Round Net
Supervisor for large system (up to 250 units)

App Round Clima
Mobile App for smartphone and tablet

OIR30
Infrared remote control



Oxx50
Multitask additional card

FANCOIL UNIT WITH CASING, FOR HEATING AND COOLING (ONLY FOR PV AND PV/AF), 2 AND 4 PIPES, CAPACITY FROM 0,62 kW TO 3,95 kW.

EUROVENT READY

mod. PV

mod. PV/AF

mod. PH

mod. PH/AF

PRISMA fancoil unit has an original shape. The housing itself is a piece of furniture, it is made of painted metal sheet with side flaps and grilles made of ABS, which are adjustable in all four directions. This fancoil is designed by Eurapo to be compatible with every kind of environment, thanks to its configuration variety: it can be easily installed on the floor, thanks to firm feet, or mounted on the ceiling. In both configurations the air intake can be located on the bottom or front side.

One important component is the filter, which is totally retractable but easily accessible; it is particularly strong and wear resistant and needs very short time for routine maintenance. In order to make Prisma fancoil more complete, Eurapo offers a large range of accessories, from the simple electromechanical regulations and on/off valves to the advanced systems with modulating valves and digital Bus management.

TECHNICAL DATA (3 rows, max speed-EST)

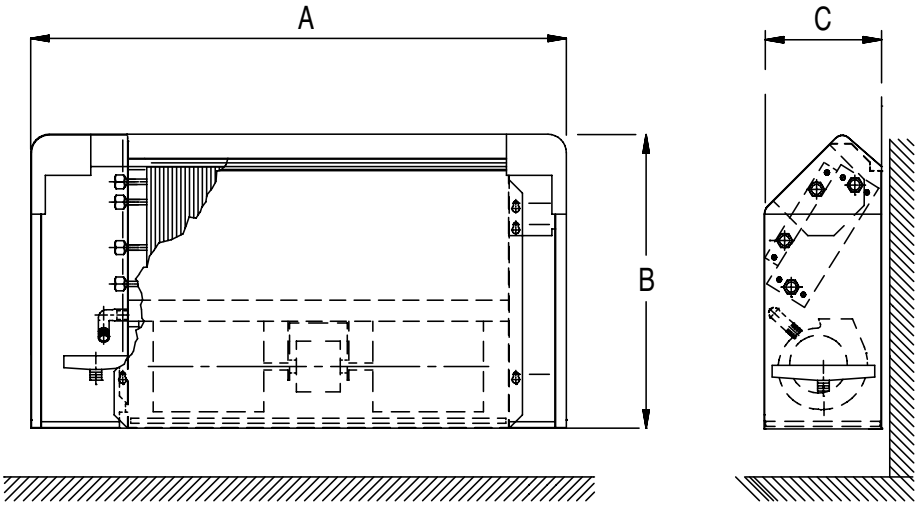
		512	514	516
Cooling	Total cooling capacity [kW]	1,98	2,56	3,81
2 pipes Air temperature 27 °C d.b., 19 °C w.b. Water temperature 7/12 °C	Sensible cooling capacity [kW]	1,65	2,12	3,14
	Water flow [l/h]	341	441	656
	Pressure drop [kPa]	9,6	9,2	14,6
Heating	Heating capacity [kW]	2,05	3,04	4,40
2 pipes Air temperature 20 °C Inlet water temperature 45/40 °C	Water flow [l/h]	353	523	757
	Pressure drop [kPa]	10,8	10,3	17,3
Heating	Heating capacity [kW]	1,63	2,39	3,20
4 pipes Air temperature 20 °C Water temperature 65/55 °C	Water flow [l/h]	158	206	275
	Pressure drop [kPa]	4,7	9,3	20,2
Further data	Air flow [m³/h]	456	574	792
	Sound power level [dB(A)]	55,0	59,0	60,0
	Sound pressure level [dB(A)]	45,6	49,6	50,6
	Power input [W]	31	54	42
	Absorbed current [A]	0,33	0,44	0,37
	Water content [l] (2 pipes)	0,79	1,05	1,31

TECHNICAL DATA (3 rows, max speed-asynchronous)

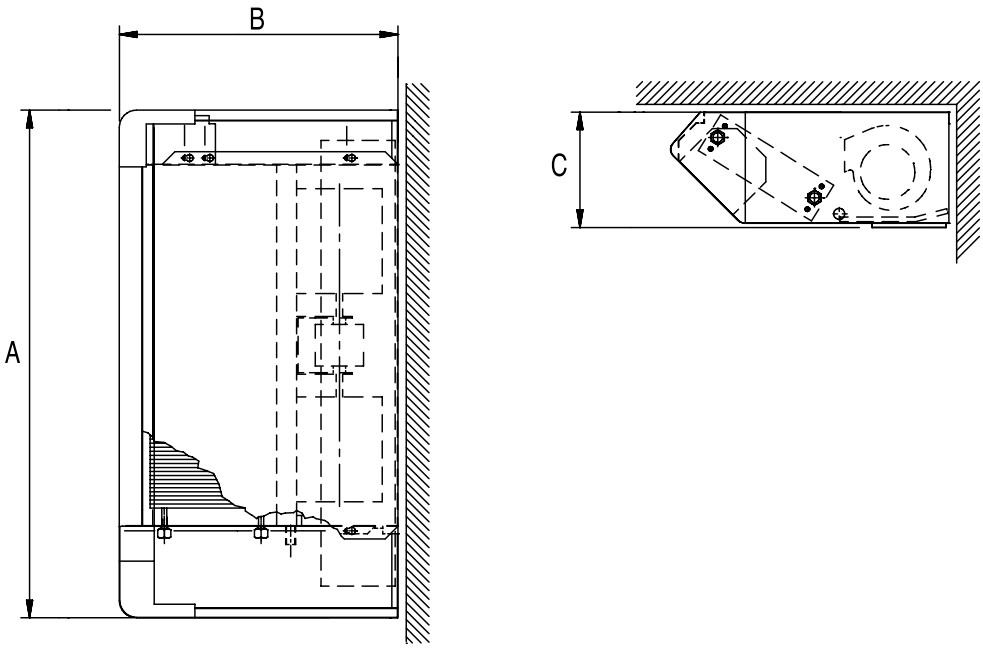
		110	112	114	216	218
Cooling	Total cooling capacity [kW]	1,11	1,59	2,14	3,30	3,50
2 pipes Air temperature 27 °C d.b., 19 °C w.b. Water temperature 7/12 °C	Sensible cooling capacity [kW]	0,93	1,25	1,90	2,46	3,06
	Water flow [l/h]	191	274	368	568	602
	Pressure drop [kPa]	3,4	7,1	5,8	14,8	13,6
Heating	Heating capacity [kW]	1,37	1,83	2,60	3,46	4,17
2 pipes Air temperature 20 °C Inlet water temperature 45/40 °C	Water flow [l/h]	236	315	448	595	718
	Pressure drop [kPa]	4,9	6,0	6,5	14,7	16,0
Heating	Heating capacity [kW]	0,91	1,31	1,93	2,79	3,20
4 pipes Air temperature 20 °C Water temperature 65/55 °C	Water flow [l/h]	78	113	166	240	275
	Pressure drop [kPa]	1,3	3,4	6,7	14,7	7,1
Further data	Air flow [m³/h]	243	317	432	606	754
	Sound power level [dB(A)]	48,0	50,0	54,0	53,0	55,0
	Sound pressure level [dB(A)]	38,6	40,6	44,6	43,6	45,6
	Power input [W]	46	48	57	61	76
	Absorbed current [A]	0,21	0,21	0,25	0,27	0,33
	Water content [l] (2 pipes)	0,53	0,79	1,05	1,31	1,57

DIMENSIONS

mod. PV



mod. PH/AF



Dimensions (mm) and weights PV - PV/AF - PH - PH/AF

mod. PV

mod. PV/AF

mod. PH

mod. PH/AF

	110	112	114	216	218
EST	**-**	**512**	**514**	**516**	**-**
A	648	773	898	1023	1148
B	560	560	560	560	560
PV - PH					
C	226	226	226	226	226
kg	17	20	23	27	31
PV/AF - PH/AF					
C	235	235	235	235	235
kg	18	21	24	28	32
Water connections 1/2" G F					

ACCESSORIES

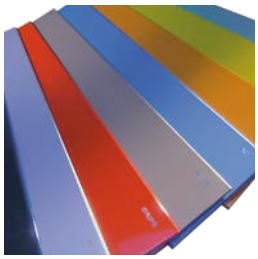
BA1
Additional heating coil for 4 pipe system

KREL
Electric heater

_3A2+DT
ON-OFF Valves and shut-off valves

D2CM+DT
Modulating pressure independent valves and shut-off valves

4-PIPE COMPACT KIT
Hydraulic kit for 4-pipe system



EXTRA RAL
Special painting

CP
Set of feet

ZL
Long socle with feet

PPH
Horizontal back panel

PAE/HAF
Horizontal external air intake for AF models

PC
Condensate pump

EURION
Air ionization system
Air sanitization system

UV-C LED
Sanytization system LED UV-C

AFT
Antifrost thermostat

TM
Minimum water temperature thermostat

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OMNIBUS 360 CONTROLS

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OPower card for asynchronous/ brushless motors, for BMS

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OPower card for asynchronous motors, for BMS+Console Round Inside+Air sensor at air intake

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OPower card for asynchronous motors, for BMS+Round IR receiver+Air sensor at air intake

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Console for on wall installation

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Console for on wall installation

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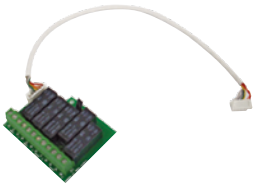
ORS810 - Round Master
Supervisor for medium system (up to 100 units)

ORS940 - Round Net
Supervisor for large system (up to 250 units)

App Round Clima
Mobile App for smartphone and tablet

OIR30
Infrared remote control



Oxx50
Multitask additional card

FANCOIL UNIT WITH COMPACT DIMENSIONS, FOR HEATING AND COOLING, 2 AND 4 PIPES, CAPACITY FROM 0,48 kW TO 3,75 kW.

EURION READY

mod. SVR

mod. CVR

The **LOW BODY** fancoils are characterized by a very reduced height (only 427 mm) and they have been designed for installation in small niches.
The **LOW BODY** units present an upper air outlet and a frontal air intake; they can be installed on the floor, on the wall or concealed.
The low body fancoils are available in 5 sizes and they are always equipped with an auxiliary drain pan.

The inner frame is made of galvanized steel, the housing is manufactured with sheet steel painted with oven dried epoxy powders available in all RAL colours (standard colour is RAL9003), access doors and grilles are made of white coloured heat-resistant ABS and can be turned into all four directions.

To complete all models, Eurapo offers a wide range of accessories.

TECHNICAL DATA (3 rows, max speed-EST)

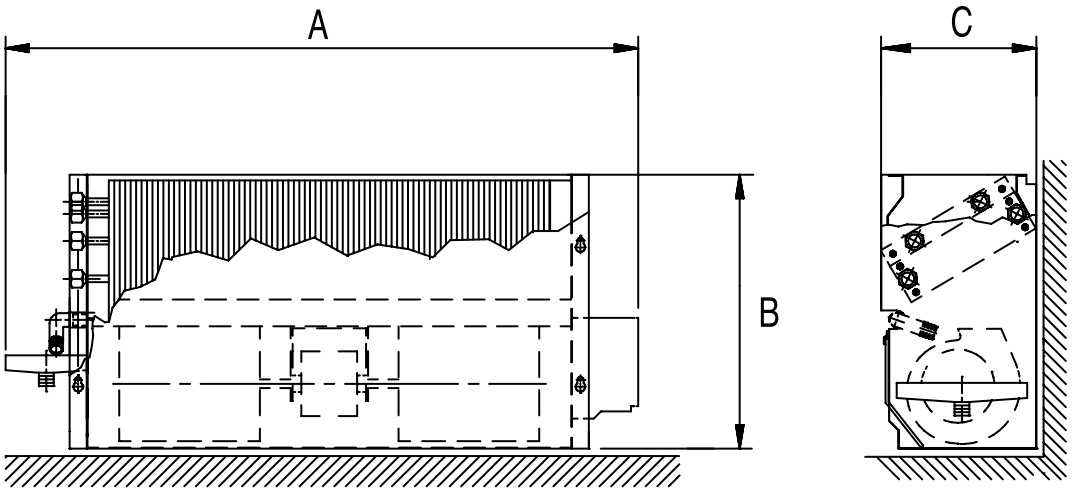
		512	514	516
Cooling **2 pipes** Air temperature 27 °C d.b., 19 °C w.b. Water temperature 7/12 °C	Total cooling capacity [kW]	1,44	2,09	3,07
	Sensible cooling capacity [kW]	1,30	1,83	2,62
	Water flow [l/h]	245	356	582
	Pressure drop [kPa]	7,2	10,2	8,7
Heating **2 pipes** Air temperature 20 °C Inlet water temperature 45/40 °C	Heating capacity [kW]	1,89	2,50	3,56
	Water flow [l/h]	327	433	676
	Pressure drop [kPa]	8,3	11,4	9,1
Heating **4 pipes** Air temperature 20 °C Water temperature 65/55 °C	Heating capacity [kW]	2,19	2,29	3,06
	Water flow [l/h]	194	201	271
	Pressure drop [kPa]	6,9	9,2	16,5
Further data	Air flow [m^3/h]	437	608	833
	Sound power level [dB(A)]	55,0	53,2	58,2
	Sound pressure level [dB(A)]	45,6	43,9	48,8
	Power input [W]	35	60	47
	Absorbed current [A]	0,32	0,54	0,41
	Water content [l] (2 pipes)	0,62	0,83	1,03

TECHNICAL DATA (3 rows, max speed-asynchronous)

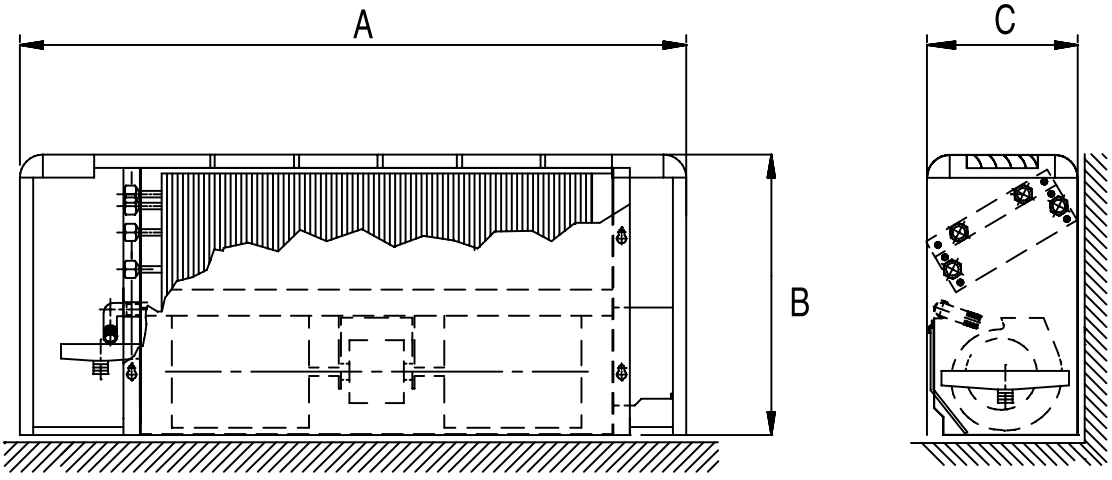
		110	112	114	216	218
Cooling Air temperature 27 °C d.b., 19 °C w.b. Water temperature 7/12 °C	Total cooling capacity [kW]	0,98	1,21	1,87	2,74	3,23
	Sensible cooling capacity [kW]	0,90	1,09	1,62	2,32	2,71
	Water flow [l/h]	166	207	318	519	614
	Pressure drop [kPa]	2,5	3,5	8,4	7,1	10,2
Heating **2 pipes** Air temperature 20 °C Inlet water temperature 45/40 °C	Heating capacity [kW]	1,18	1,53	2,22	3,16	3,78
	Water flow [l/h]	204	265	384	595	717
	Pressure drop [kPa]	2,5	4,2	9,3	7,3	11,8
Heating **4 pipes** Air temperature 20 °C Water temperature 65/55 °C	Heating capacity [kW]	1,12	1,79	1,87	2,54	3,83
	Water flow [l/h]	98	157	165	224	338
	Pressure drop [kPa]	1,8	4,8	6,5	11,8	5,9
Further data	Air flow [m^3/h]	243	317	432	606	754
	Sound power level [dB(A)]	46,8	49,8	53,5	51,2	55,0
	Sound pressure level [dB(A)]	37,4	40,4	44,1	41,8	45,6
	Power input [W]	46	48	57	61	76
	Absorbed current [A]	0,21	0,21	0,25	0,27	0,33
	Water content [l] (2 pipes)	0,41	0,62	0,83	1,03	1,24

DIMENSIONS

mod. CVR



mod. SVR



Dimensions (mm) and weights CVR

mod. CVR

	110	112	114	216	218
EST	**-**	**512**	**514**	**516**	**-**
A	555	680	805	930	1055
B	395	395	395	395	395
C	230	230	230	230	230
kg	9	11	14	16	19
Water connections - 1/2" G F					

Dimensions (mm) and weights SVR

mod. SVR

	110	112	114	216	218
EST	**-**	**512**	**514**	**516**	**-**
A	648	773	898	1023	1148
B	430	430	430	430	430
C	254	254	254	254	254
kg	15	17	22	23	26
Water connections - 1/2" G F					

ACCESSORIES

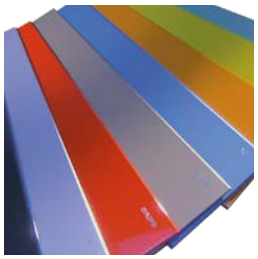
BA1
Additional heating coil for 4 pipe system

KREL
Electric heater

4-PIPE COMPACT KIT
Hydraulic kit for 4-pipe system

_3A2+DT
ON/OFF Valves and shut-off valves

D2CM+DT
Modulating pressure independent valves and shut-off valves



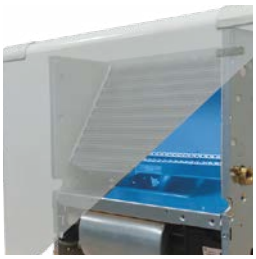
EXTRA RAL
Special painting

PPV LOW BODY
Vertical back panel

PM
Air delivery plenum with collars

PM90
90° Air delivery plenum

PC
Condensate pump



UV-C LED
Sanytization system LED UV-C

AFT
Antifrost thermostat

TM
Minimum water temperature thermostat

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OMNIBUS 360 CONTROLS

OMNIBUS 360 BUILDING MANAGEMENT SYSTEM

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ORBV11-ORC111
OPower card for brushless motors, for BMS+Console Round Inside+Air sensor at air intake

ORBV11-OC510
OPower card for brushless motors, for BMS+Round IR receiver+Air sensor at air intake

ORC515 - Round IR
Console IR receiver on wall

ORC336 - Round Analog
Console for on wall installation

ORC636 - Round Cabin
Console for on wall installation

ORC236 - Round Display
Console for on wall installation

ORC446 - Round Touch
Console for on wall installation

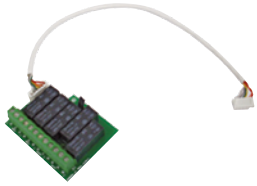
ORS736 - Round Manager
Supervisor for small system (up to 16 units)

ORS810 - Round Master
Supervisor for medium system (up to 100 units)

ORS940 - Round Net
Supervisor for large system (up to 250 units)

App Round Clima
Mobile App for smartphone and tablet

OIR30
Infrared remote control



Oxx50
Multitask additional card

FANCOIL UNIT WITHOUT CASING, FOR HEATING AND COOLING, 2 AND 4 PIPES, CAPACITY FROM 0,62 kW TO 13,26 kW.

EURION READY

mod. CV

mod. CV/AF

mod. CH

mod. CH/AF

The **CONCEALED** fancoil is a unit which can be used for ductwork installations: it has very good performances also with medium/long ducts, thanks to its high pressure centrifugal fans; it is silent and can be equipped with a wide range of dedicated accessories.
The **CONCEALED** fancoil is available for vertical installation on the wall (with bottom air intake) or on the floor (with frontal air intake) and horizontal on the ceiling (with back or bottom air intake).
This fancoil is the ideal solution for the needs of small spaces and limited sizes that nowadays influences the choice of furniture in homes or offices.
Available in 11 sizes, the **CONCEALED** model is equipped with an electric box containing the terminal board and auxiliary drain pan. The frame is made of galvanized steel and the inner sides are completely lined by an insulating self-extinguishing material.
To complete this model Eurapo offers a wide range of accessories. The concealed fancoils are also available for **District Cooling** applications: the water coils are designed with a reduced number of circuits, suitable for functioning with high water temperature difference.

TECHNICAL DATA (3 rows, max speed-EST)

EST INVERTER
ENERGY SAVING TECHNOLOGY

		512	514	516	520	522	524	528
Cooling	Total cooling capacity [kW]	1,98	2,56	3,81	5,05	5,81	7,47	9,18
2 pipes Air temperature 27 °C d.b., 19 °C w.b. Water temperature 7/12 °C	Sensible cooling capacity [kW]	1,65	2,12	3,14	3,79	4,32	6,09	7,51
	Water flow [l/h]	341	441	656	869	1000	1286	1580
	Pressure drop [kPa]	9,6	9,2	14,6	16,9	36,2	16,8	31,3
Heating	Heating capacity [kW]	2,05	3,04	4,40	5,76	6,53	8,43	10,40
2 pipes Air temperature 20 °C Inlet water temperature 45/40 °C	Water flow [l/h]	353	523	757	991	1124	1451	1790
	Pressure drop [kPa]	10,8	10,3	17,3	21,8	40,0	17,2	43,5
Heating	Heating capacity [kW]	1,63	2,39	3,20	5,00	5,55	6,46	7,90
4 pipes Air temperature 20 °C Water temperature 65/55 °C	Water flow [l/h]	158	206	275	430	478	556	680
	Pressure drop [kPa]	4,7	9,3	20,2	23,3	26,8	36,0	46,2
Further data	Air flow [m³/h]	456	574	792	1082	1304	1567	1995
	Sound power level [dB(A)]	55,0	59,0	60,0	57,0	62,0	63,0	69,0
	Sound pressure level [dB(A)]	45,6	49,6	50,6	47,6	52,6	53,6	59,6
	Power input [W]	31	54	42	46	76	89	168
	Absorbed current [A]	0,35	0,44	0,42	0,42	0,68	0,83	1,42
	Water content [l] (2 pipes)	0,79	1,05	1,31	2,20	2,20	2,84	3,47

To obtain capacities for District Cooling solutions or for conditions different from standard ones, please use the EURAPO selection software.

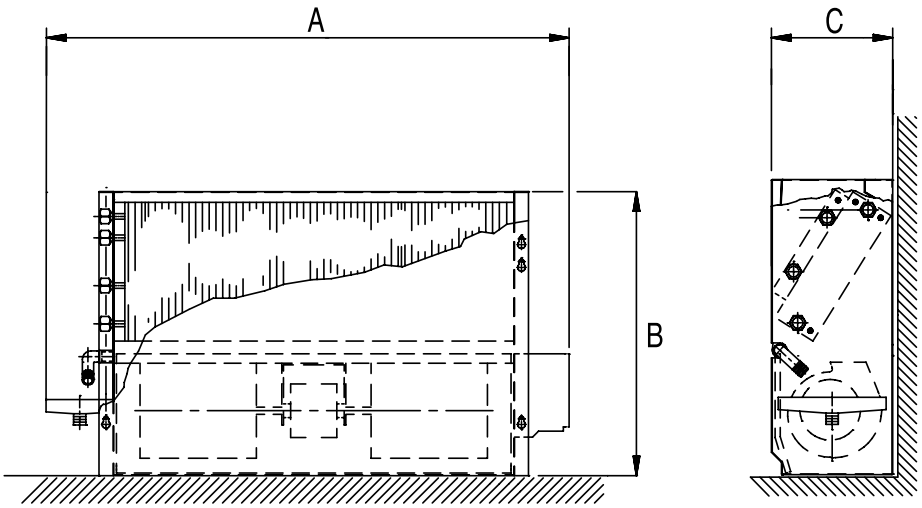
TECHNICAL DATA (3 rows, max speed-asynchronous)

		110	112	114	216	218	220	222	224	226	228.1	328
Cooling	Total cooling capacity [kW]	1,11	1,59	2,14	3,30	3,50	4,44	5,07	6,43	7,25	8,86	9,73
2 pipes Air temperature 27 °C d.b., 19 °C w.b. Water temperature 7/12 °C	Sensible cooling capacity [kW]	0,93	1,25	1,90	2,46	3,06	3,53	4,42	5,06	5,70	7,13	8,04
	Water flow [l/h]	191	274	368	568	602	764	873	1107	1248	1515	1675
	Pressure drop [kPa]	3,4	7,1	5,8	14,8	13,6	24,1	28,4	18,8	21,0	27,2	74,6
Heating	Heating capacity [kW]	1,37	1,83	2,60	3,46	4,17	4,80	6,04	6,60	7,86	9,96	10,54
2 pipes Air temperature 20 °C Inlet water temperature 45/40 °C	Water flow [l/h]	236	315	448	596	718	826	1040	1136	1353	1692	1814
	Pressure drop [kPa]	4,9	6,0	6,5	14,7	16,0	23,4	27,7	18,9	25,3	29,8	82,4
Heating	Heating capacity [kW]	0,91	1,31	1,93	2,79	3,20	4,33	4,92	6,16	6,30	7,97	8,00
4 pipes Air temperature 20 °C Water temperature 65/55 °C	Water flow [l/h]	78	113	166	240	275	372	423	530	542	663	688
	Pressure drop [kPa]	1,3	3,4	6,7	14,7	7,1	10,3	11,7	33,0	31,7	29,8	46,5
Further data	Air flow [m³/h]	243	317	432	606	754	961	1115	1307	1507	1814	2010
	Sound power level [dB(A)]	48,0	50,0	54,0	53,0	55,0	54,0	60,0	60,0	63,0	64,0	67,0
	Sound pressure level [dB(A)]	38,6	40,6	44,6	43,6	45,6	44,6	50,6	50,6	53,6	55,0	57,6
	Power input [W]	46	48	57	61	76	90	117	140	162	213	213
	Absorbed current [A]	0,21	0,21	0,25	0,27	0,33	0,39	0,52	0,64	0,71	0,95	0,95
	Water content [l] (2 pipes)	0,53	0,79	1,05	1,31	1,57	2,20	2,20	2,84	2,84	3,47	3,47

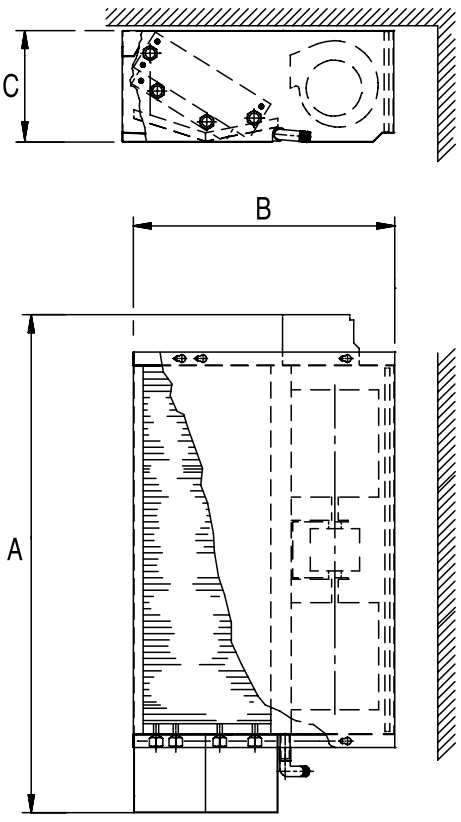
To obtain capacities for District Cooling solutions or for conditions different from standard ones, please use the EURAPO selection software.

DIMENSIONS

mod. CV/AF



mod. CH

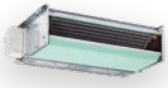


mod. CV

mod. CV/AF

mod. CH

mod. CH/AF



Dimensions (mm) and weights CV - CV/AF - CH - CH/AF

	110	112	114	216	218	220	222	224	226	228.1	328
EST	**-**	**512**	**514**	**516**	**-**	**520**	**522**	**524**	**-**		**528**
CV - CV/AF											
A	555	680	805	930	1055	1180	1180	1430	1430	1680	1680
CH - CH/AF											
A	574	699	824	949	1074	1199	1199	1449	1449	1699	1699
CV - CV/AF - CH - CH/AF											
B	505	505	505	505	505	581	581	581	581	581	581
C	215	215	215	215	215	245	245	245	245	245	245
kg	10	13	16	19	22	29	31	38	38	42	42
Water connections - 1/2" G F											

ACCESSORIES

BA1
Additional heating coil for 4 pipe system

BA41
Additional coil for 4R+1R configuration

KREL
Electric heater

H3A2+DT
Valve and shut-off valve

D2CM+DT
Modulating pressure independent valves and shut-off valves

EURION
Air ionization system
Air sanitization system

4-PIPE COMPACT KIT
Hydraulic kit for 4-pipe system

PC
Condensate pump

RCCAF
90° telescopic air intake connection

CP CONCEALED
Set of feet for concealed (CV)

PAE/HM
Horizontal air mixing box with motorized damper

PAE/HAF
Horizontal air intake for AF models

PA
Air suction plenum

PAE/V
Vertical external air intake with manual damper

PAE/H
Horizontal air mixing box with manual damper

PAS/PM
Air suction plenum with round collars/Air delivery plenum with round collars

PA90/PM90
90° air suction plenum
90° air delivery plenum

UV-C LED
Sanytization system LED UV-C

TM
Minimum water temperature thermostat

AFT
Antifrost thermostat

For further accessories visit our website www.eurapo.it or contact us.

OMNIBUS 360 CONTROLS

ORV10/ORBV10
OPower card for asynchronous/ brushless motors, for BMS

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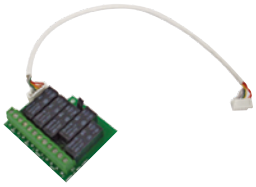


Oxx50
Multitask additional card

OIR30
Infrared remote control

HIGH PRESSURE DUCTED UNIT, FOR HEATING AND COOLING, 2 AND 4 PIPES, CAPACITY FROM 2,75 kW TO 31,05 kW.

EURION READY

mod. EBH

EBH high pressure ducted units, thanks to their high pressure fan decks, permit to satisfy every request of heating and cooling applications in big environments, where ducted air distribution is requested. They are suitable for horizontal installation.

These are units for COOLING and HEATING applications; they are fed with cold and hot water and used according to their relevant performance features. EBH units are components of cooling and/or heating systems, designed for temperatures up to 75 °C.

The **EBH** high pressure ducted units are also available for **District Cooling** applications: the water coils are designed with a reduced number of circuits, suitable for functioning with high water temperature difference.

TECHNICAL DATA (4 rows, at different Pa of external static pressure, max speed-EST)

		020	030	040	050	060*
	External static pressure [Pa]	85	86	85	63	66
Cooling	Total cooling capacity [kW]	6,75	9,94	13,64	14,40	24,06
2 pipes Air temperature 27 °C d.b., 19 °C w.b. Water temperature 7/12 °C	Sensible cooling capacity [kW]	5,27	7,98	11,17	11,94	18,98
	Water flow [l/h]	1186	1751	2409	2554	4104
	Pressure drop [kPa]	16,5	35,4	45,0	50,9	31,3
Heating	Heating capacity [kW]	7,07	11,52	16,24	18,07	28,34
2 pipes Air temperature 20 °C Inlet water temperature 45/40 °C	Water flow [l/h]	1202	1958	2754	3058	4905
	Pressure drop [kPa]	15,4	39,1	53,2	65,7	32,8
Further data	Air flow [m³/h]	1040	1948	2848	3217	4589
	Sound power level [dB(A)]	65	68	71	75	82
	Power input [W]	161	261	405	478	947
	Absorbed current [A]	1,08	1,12	1,85	2,17	4,26
	Water content [l]	2,94	2,94	3,78	3,78	6,72

* Performances are out of scope Eurovent FCP.

In order to select the EBH ducted fancoil with District Cooling coils, please use the EURAPO software for selection.

TECHNICAL DATA (4 rows, at different Pa of external static pressure, max speed-asynchronous)

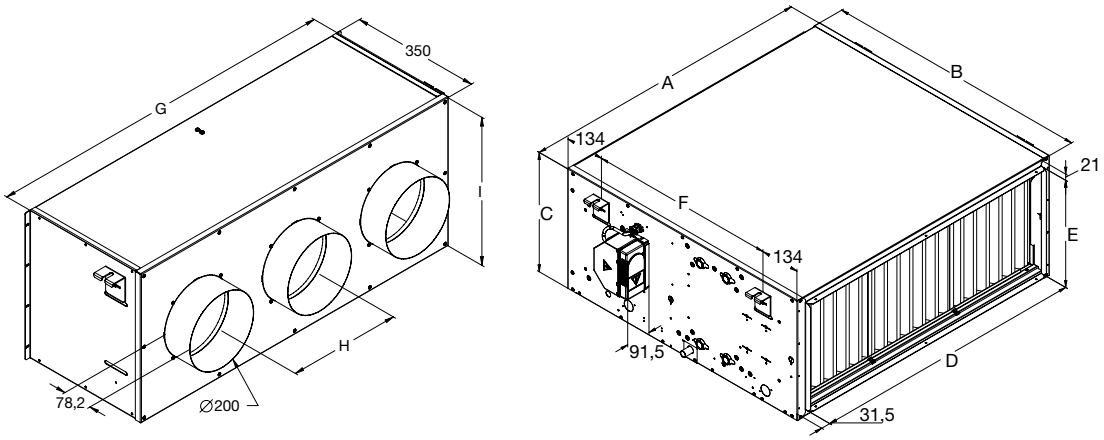
		020	030	040	050	060*	070*
	External static pressure [Pa]	79	70	78	60	50	50
Cooling	Total cooling capacity [kW]	6,95	9,49	11,80	13,72	23,44	27,62
2 pipe Air temperature 27 °C d.b., 19 °C w.b. Water temperature 7/12 °C	Sensible cooling capacity [kW]	4,99	7,91	9,94	11,80	18,18	21,75
	Water flow [l/h]	1196	1633	2026	2289	4024	4741
	Pressure drop [kPa]	17,4	31,5	30,6	32,2	30,0	37,8
Heating	Heating capacity [kW]	7,08	11,40	14,30	17,40	27,46	34,03
2 pipe Air temperature 20 °C Inlet water temperature 45/40 °C	Water flow [l/h]	1219	1962	2465	2727	4773	5914
	Pressure drop [kPa]	13,3	34,0	36,1	51,0	31,0	50,0
Further data	Air flow [m³/h]	1145	1910	2680	3250	4414	5548
	Sound power level [dB(A)]	64	65	69	72	76	81
	Power input [W]	171	352	451	588	1060	1801
	Absorbed current [A]	0,72	1,76	2,03	2,85	7,50	8,19
	Water content [l]	2,94	2,94	3,78	3,78	6,72	6,72

* Performances are out of scope Eurovent FCP.

In order to select the EBH ducted fancoil with District Cooling coils, please use the EURAPO software for selection.

DIMENSIONS

mod. EBH

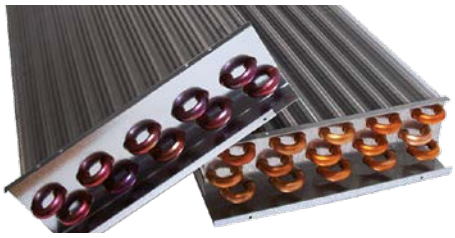


OPTIONAL PLENUM

Dimensions [mm] and weights [kg] EBH

	020	030	040	050	060	070
A	990	990	1240	1240	1635	1635
B	902	902	902	902	1160	1160
C	408	408	408	408	518	518
D	927	927	1177	1177	1572	1572
E	366	366	366	366	476	476
F	634	634	634	634	892	892
G	963	963	1213	1213	1608	1608
H	307	307	300	300	311	311
I	404	404	404	404	514	514
Weights	64,3	64,3	79,3	79,3	126,0	126,0
Water connections	G 1/2" F	G 1/2" F	G 1/2" F	G 1/2" F	G 1" M	G 1" M
Spigots	3	3	4	4	5	5

ACCESSORIES



BA2
Additional 2R coil

BA3
Additional 3R coil

KREL
Electric heater

VALVE
Valve kit

KPC
Condensate pump

KPM/PA
Air supply/intake plenum

F5 FILTER
Special filter

EURION
Air ionization system
Air sanitization system

OMNIBUS 360 CONTROLS

ORT10/ORBT10
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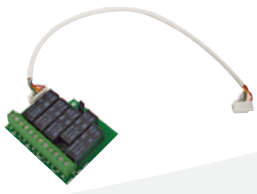


Oxx50
Multitask additional card

OIR30
Infrared remote control

For further accessories visit our website www.eurapo.it or contact us.

HIGH PRESSURE DUCTED UNIT, FOR HEATING AND COOLING, DOUBLE SKIN PANELS, 2 PIPES, CAPACITY FROM 1,12 kW TO 30,13 kW.

EUROVENT READY

mod. EDS

EDS high pressure ducted units, thanks to their high pressure fan decks, permit to satisfy every request of heating and cooling applications in big environments, where ducted air distribution is requested. They are suitable for horizontal installation.

The double skin structure is composed by insulated 25 mm thick panels, colour RAL9002, and aluminium supporting frame. These are units for COOLING and HEATING applications and have been designed for temperatures up to 75 °C.

The **EDS** high pressure ducted units are also available for **District Cooling** applications: the water coils are designed with a reduced number of circuits, suitable for functioning with high water temperature difference.

TECHNICAL DATA (4 rows, with external static pressure of 50 Pa, max speed-EST)

		004	008	020	030	040	050	060
Cooling	Total cooling capacity [kW]	4,97	5,00	8,33	8,96	12,65	14,37	23,77
Air temperature 27 °C d.b., 19 °C w.b. Water temperature 7/12 °C	Sensible cooling capacity [kW]	3,97	4,06	6,53	7,40	10,75	12,22	18,23
	Water flow [l/h]	853	859	1429	1538	2172	2467	4080
	Pressure drop [kPa]	14,8	8,5	22,9	27,5	34,0	48,2	30,7
Further data	Air flow [m³/h]	974	1113	1659	1961	2956	3787	4337
	Sound pressure level [dB(A)]*	49,6	48,6	57,0	57,4	60,6	63,4	68,5
	Power input [W]	56	67	231	233	372	616	771
	Absorbed current [A]	0,54	0,67	1,91	1,48	1,79	3,05	3,93
	Water content [l]	1,75	2,10	2,94	2,94	3,78	3,78	6,72

*Pressure level in open field at 1 m distance from the source.

The EST-EDS ducted unit is available for cooling only.

In order to select the EDS ducted fancoil with District Cooling coils, please use the EURAPO software for selection.

TECHNICAL DATA (4 rows, with external static pressure of 50 Pa, max speed-asynchronous)

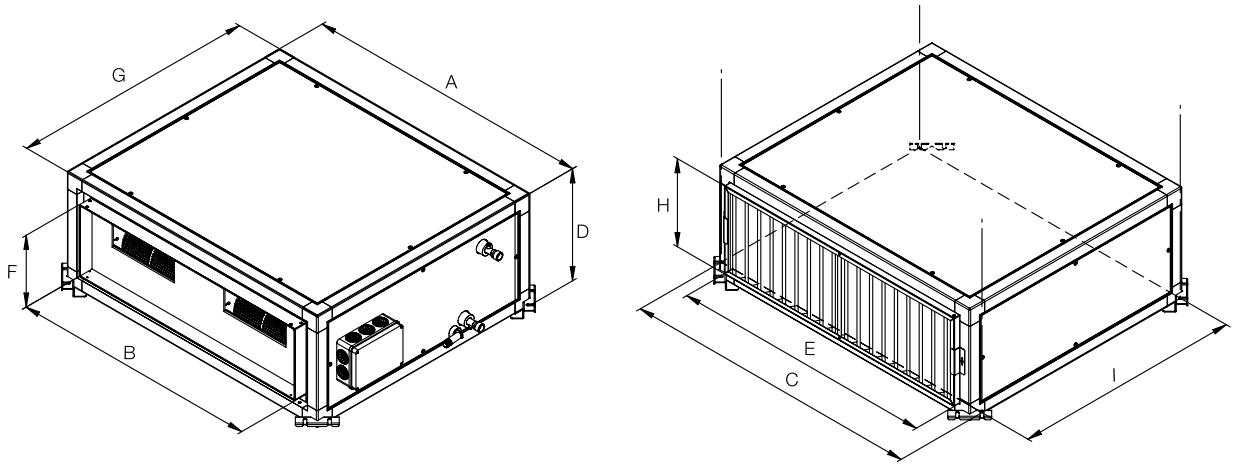
		004	006	008	020	030	040	050	060	070
Cooling	Total cooling capacity [kW]	2,54	3,10	4,13	7,33	9,77	12,85	13,64	24,06	27,13
Air temperature 27 °C d.b., 19 °C w.b. Water temperature 7/12 °C	Sensible cooling capacity [kW]	1,94	2,49	3,32	5,70	8,13	10,94	11,52	18,47	21,46
	Water flow [l/h]	436	532	709	1258	1677	2206	2342	4130	4657
	Pressure drop [kPa]	4,8	3,8	6,2	18,4	32,1	34,9	44,5	31,4	42,5
Heating	Heating capacity [kW]	2,65	3,61	4,77	7,89	12,09	15,21	17,14	25,09	31,95
Air temperature 20 °C Inlet water temperature 45/40 °C	Water flow [l/h]	461	627	830	1372	2102	2644	2978	4360	5552
	Pressure drop [kPa]	4,4	4,3	7,0	19,4	41,0	46,6	57,5	32,3	51,5
Further data	Air flow [m³/h]	400	596	848	1383	2230	3026	3472	4414	5548
	Sound pressure level [dB(A)]*	42,2	43,9	46,3	52,7	56,4	56,3	60,0	65,3	69,9
	Power input [W]	59	80	102	187	352	511	666	1060	1801
	Absorbed current [A]	0,26	0,35	0,46	0,84	2,28	2,37	3,98	7,50	8,19
	Water content [l]	1,75	2,10	2,10	2,94	2,94	3,78	3,78	6,72	6,72

*Pressure level in open field at 1m distance from the source.

In order to select the EDS ducted fancoil with District Cooling coils, please use the EURAPO software for selection.

DIMENSIONS

mod. EDS



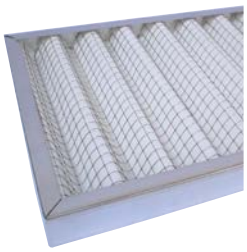
Dimensions [mm] and weights [kg] EDS

	004	006	008	020	030	040	050	060	070
A	882	1007	1007	1132	1132	1382	1382	1777	1777
B	742	867	867	992	992	1242	1242	1637	1637
C	924	1049	1049	1174	1174	1424	1424	1819	1819
D	390	390	390	440	440	440	440	550	550
E	799	924	924	1049	1049	1299	1299	1694	1694
F	250	250	250	300	300	300	300	410	410
G	855	855	855	855	855	855	855	1030	1030
H	306	306	306	357	357	357	357	467	467
I	798	798	798	798	798	798	798	973	973
Weights	52,5	57,5	59,0	68,0	69,5	82,0	83,0	117,5	131,5
Water connections	G 3/4" M	G 3/4" M	G 3/4" M	G 3/4" M	G 3/4" M	G 3/4" M	G 3/4" M	G 1" M	G 1" M

ACCESSORIES

VALVE
Valve kit

KPC
Condansate pump



F5 FILTER
Special filter

KREL
Electric heater

KPM/PA
Air supply/intake plenum

OMNIBUS 360 CONTROLS

OMNIBUS 360 BUILDING MANAGEMENT SYSTEM

EURION
Air ionization system
Air sanitization system

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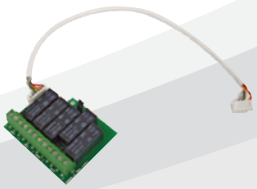
Mobile App for smartphone and tablet



Oxx50
Multitask additional card

OIR30
Infrared remote control

For further accessories visit our website www.eurapo.it or contact us.

CASSETTE UNITS,
FOR HEATING AND COOLING,
2 AND 4 PIPES,
CAPACITY FROM 1,12 kW TO 5,43 kW.

EURION READY

mod. UCS600

mod. UCS/M 600

EURAPO has designed a new range of hydronic cassette units thanks to the recent investments in the new technical laboratories. The new **UCS600** series has been planned in accordance with quality standards that characterize the complete EURAPO production since years and it is distinguished by an increased capacity with a low noise level, by a further improvement in the quality of the components, by a new design of the air intake/air supply grilles that also improves air distribution. Power consumption is reduced by more than 50% in the EST version and thanks to the new production process, UCS600 can deeply penetrate the market with extremely aggressive and competitive prices.
Available in 6 models, the UCS600 overall dimensions allow an easy installation in modular false ceilings (600x600), while the hydraulic and electrical connections, located on the same side, facilitate the maintenance operations.

The **UCS/M 600** presents all the new features of the basic model UCS600 and is characterized by the micro-drilled air intake grill and its air diffusion frame entirely realized in painted metal sheet, perfectly adaptable to modular false ceilings.

The unit in basic configuration is equipped with a condensate pump, and it is pre-arranged for the connection to an additional air outlet duct and/or to an external air intake.
The air intake/outlet grilles are designed in order to avoid that people are directly invested by the air flow (thanks to the Coanda effect), by reaching the maximum levels of comfort.
The CASSETTE unit can be managed by the complete range of EURAPO regulators: from the standard electro-mechanical and microprocessor controls to the digital controls (OMNIBUS), compatible to BMS Systems.

TECHNICAL DATA (max speed-EST)

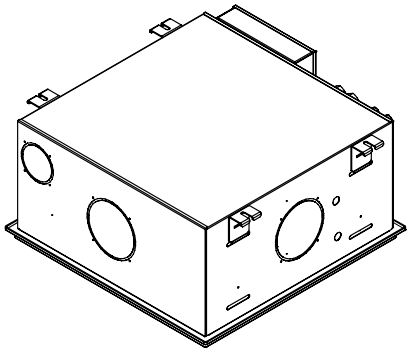
			2 pipes			4 pipes		
			621	**622**	**624**	**641**	**642**	**644**
Cooling	Total cooling capacity [kW]		2,85	4,85	5,43	1,87	3,52	4,30
Air temperature 27 °C d.b., 19 °C w.b. Water temperature 7/12 °C	Sensible cooling capacity [kW]		2,42	3,79	4,17	1,73	3,32	3,53
	Water flow [l/h]		491	835	953	322	678	740
	Pressure drop [kPa]		9,2	17,2	40,5	7,9	17,0	19,8
Heating	Heating capacity [kW]		2,99	4,91	5,44	-	-	-
2 pipes Air temperature 20 °C Inlet water temperature 45/40 °C	Water flow [l/h]		515	845	955	-	-	-
	Pressure drop [kPa]		9,0	16,2	35,7	-	-	-
Heating	Heating capacity [kW]		-	-	-	2,11	3,30	3,72
4 pipes Air temperature 20 °C Water temperature 65/55 °C	Water flow [l/h]		-	-	-	190	284	320
	Pressure drop [kPa]		-	-	-	7,1	15,6	19,6
Further data	Air flow [m³/h]		605	734	809	605	734	809
	Sound power level [dB(A)]		55,0	59,0	62,0	57,0	59,0	62,0
	Sound pressure level [dB(A)]		45,6	49,6	52,6	47,6	49,6	52,6
	Power input [W]		27	42	54	27	43	53
	Absorbed current [A]		0,25	0,38	0,47	0,25	0,39	0,46
	Water content [l]		1,34	2,12	2,12	1,34	2,12	2,12
						(0,3)	(0,3)	(0,3)

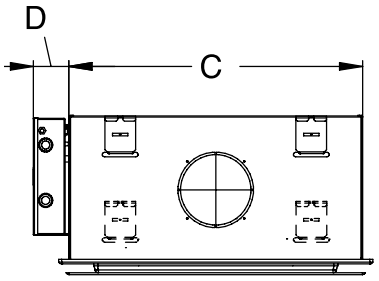
TECHNICAL DATA (max speed-asynchronous)

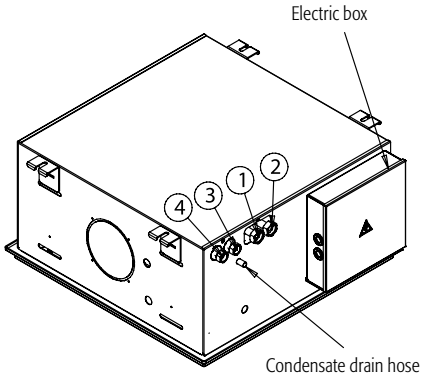
			2 pipes			4 pipes		
			621	**622**	**623**	**641**	**642**	**643**
Cooling	Total cooling capacity [kW]		2,52	3,68	4,72	1,76	3,11	3,88
Air temperature 27 °C d.b., 19 °C w.b. Water temperature 7/12 °C	Sensible cooling capacity [kW]		2,12	2,79	3,70	1,62	2,49	3,24
	Water flow [l/h]		434	633	812	303	535	668
	Pressure drop [kPa]		7,8	10,9	16,5	7,5	11,2	16,7
Heating	Heating capacity [kW]		2,66	3,65	4,89	-	-	-
2 pipes Air temperature 20 °C Inlet water temperature 45/40 °C	Water flow [l/h]		458	628	841	-	-	-
	Pressure drop [kPa]		7,0	9,4	14,9	-	-	-
Heating	Heating capacity [kW]		-	-	-	2,01	2,69	3,31
4 pipes Air temperature 20 °C Water temperature 65/55 °C	Water flow [l/h]		-	-	-	173	231	285
	Pressure drop [kPa]		-	-	-	5,8	10,6	15,2
Further data	Air flow [m³/h]		495	495	717	495	495	717
	Sound power level [dB(A)]		52,0	49,0	58,0	52,0	49,0	58,0
	Sound pressure level [dB(A)]		42,6	39,6	48,6	39,6	39,6	48,6
	Power input [W]		53	52	85	52	52	86
	Absorbed current [A]		0,25	0,25	0,38	0,25	0,25	0,41
	Water content [l]		1,34	2,12	2,12	1,34	2,12	2,12
						(0,3)	(0,3)	(0,3)

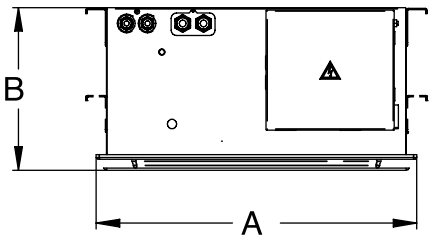
DIMENSIONS

UCS 600





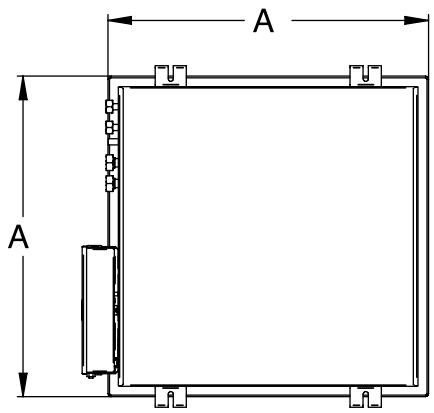




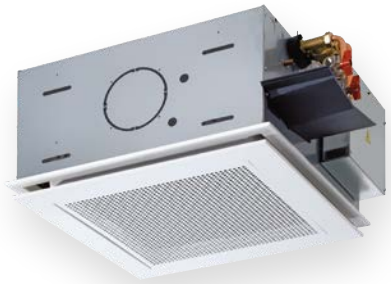
	2 pipe system	
1	Water Inlet	3/4" F
2	Water outlet	3/4" F

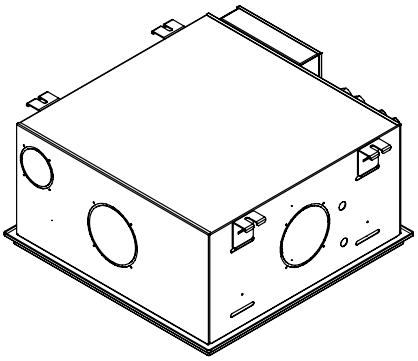
	4 pipe system	
1	Inlet cooling water	3/4" F
2	Outlet cooling water	3/4" F
3	Inlet heating water	1/2" F
4	Outlet heating water	1/2" F

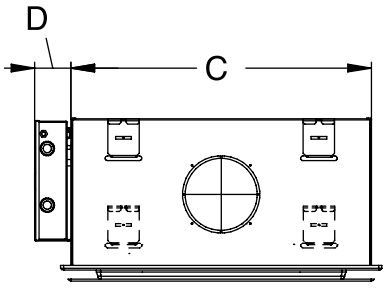
Dimensions (mm) and weights UCS600	
A	615
B	328
C	575
D	70
Kg	30

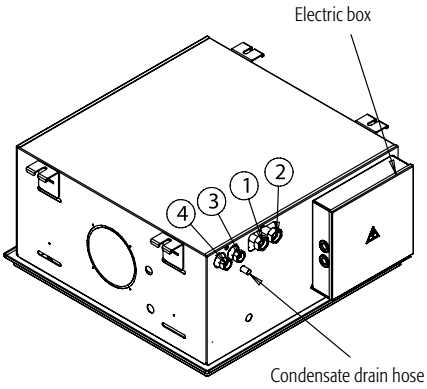


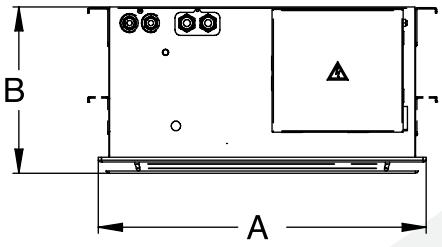
UCS/M 600







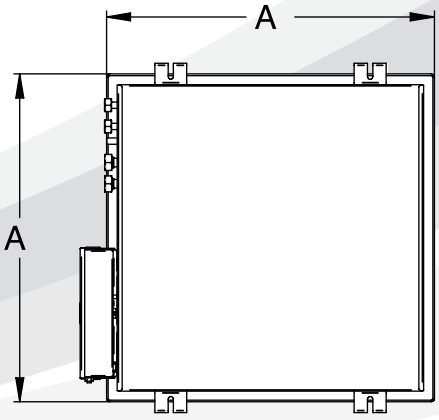




	2 pipe system	
1	Water Inlet	3/4" F
2	Water outlet	3/4" F

	4 pipe system	
1	Inlet cooling water	3/4" F
2	Outlet cooling water	3/4" F
3	Inlet heating water	1/2" F
4	Outlet heating water	1/2" F

Dimensions (mm) and weights UCS/M 600	
A	615
B	328
C	575
D	70
Kg	30



ACCESSORIES

KREL
Electric heater

_3A2+DT
Valves and shut-off valves

EXTRA RAL
Special painting

KMC600
Casing
(available for UCS/M 600)

4-PIPE COMPACT KIT
Hydraulic kit for 4-pipe system

D2B2+DT
Pressure independent valve + shut-off valve

EURION
Air ionization system
Air sanitization system

For further accessories visit our website www.eurapo.it or contact us.

OMNIBUS 360 CONTROLS

ORU10/ORBU10
OPower card for asynchronous/ brushless motors, for BMS

ORU11/ORBU11-ORC514
OPower card for asynchronous/ brushless motors, for BMS+Round IR receiver +Air sensor at air intake

ORC515 - Round IR
Console IR receiver on wall

ORC336 - Round Analog
Console for on wall installation

ORC636 - Round Cabin
Console for on wall installation

ORC236 - Round Display
Console for on wall installation

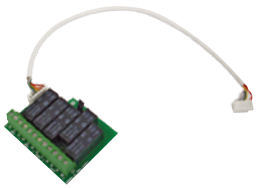
ORC446 - Round Touch
Console for on wall installation

ORS736 - Round Manager
Supervisor for small system (up to 16 units)

ORS810 - Round Master
Supervisor for medium system (up to 100 units)

ORS940 - Round Net
Supervisor for large system (up to 250 units)

App Round Clima
Mobile App for smartphone and tablet



Oxx50
Multitask additional card

OIR30
Infrared remote control

CASSETTE UNIT WITHOUT CONDENSATE PUMP, FOR HEATING AND COOLING, 2 AND 4 PIPES, CAPACITY FROM 1,12 kW TO 5,43 kW.

EURION READY

mod. UCS/H 600

UCS/H 600 cassette unit has been designed to allow a natural condensate water discharge, for gravity; in this way, condensate pump is not necessary.

UCS/H 600 unit is particularly indicated when reduced maintenance operations are required, for safety or sanitary locations (banks, police stations, hospitals, sanitary rooms), or if very low sound levels are tolerated. Similarly to the standard UCS600 models, the grill has been designed to obtain the Coanda effect, that guarantees an uniform and pleasant air diffusion, avoiding that people are directly invested by outgoing air flow.

The absence of the condensate pump allows a greater silence, reduced electric consumptions and limited maintenance operations.
The accessories range has been implemented with the new "antiallergic" **ePM1 55% filter**, with a very high filtration capacity, which ensures purification and air quality improvement by filtering pollen particles and powders having dimensions between 0,3 µm and 1 µm microns. The F7 filter can be combined with a **pressure switch** that highlights the filter clogging, warning of the need to replace the filter, in order to keep its characteristics unchanged and to avoid to affect the air flow of the unit.

TECHNICAL DATA (max speed-EST)

			2 pipes			4 pipes		
			621	622	624 new	641	642	644 new
Cooling	Total cooling capacity [kW]		2,85	4,85	5,43	1,87	3,52	4,30
Air temperature 27 °C d.b., 19 °C w.b. Water temperature 7/12 °C	Sensible cooling capacity [kW]		2,42	3,79	4,17	1,73	3,32	3,53
	Water flow [l/h]		491	835	953	322	678	740
	Pressure drop [kPa]		9,2	17,2	40,5	7,9	17,0	19,8
Heating	Heating capacity [kW]		2,99	4,91	5,44	-	-	-
2 pipes Air temperature 20 °C Inlet water temperature 45/40 °C	Water flow [l/h]		515	845	955	-	-	-
	Pressure drop [kPa]		9,0	16,2	35,7	-	-	-
Heating	Heating capacity [kW]		-	-	-	2,11	3,30	3,72
4 pipes Air temperature 20 °C Water temperature 65/55 °C	Water flow [l/h]		-	-	-	190	284	320
	Pressure drop [kPa]		-	-	-	7,1	15,6	19,6
Further data	Air flow [m³/h]		605	734	809	605	734	809
	Sound power level [dB(A)]		55,0	59,0	62,0	57,0	59,0	62,0
	Sound pressure level [dB(A)]		45,6	49,6	52,6	47,6	49,6	52,6
	Power input [W]		27	42	54	27	43	53
	Absorbed current [A]		0,25	0,38	0,47	0,25	0,39	0,46
	Water content [l]		1,34	2,12	2,15	1,34	2,12	2,12
						(0,3)	(0,3)	(0,3)

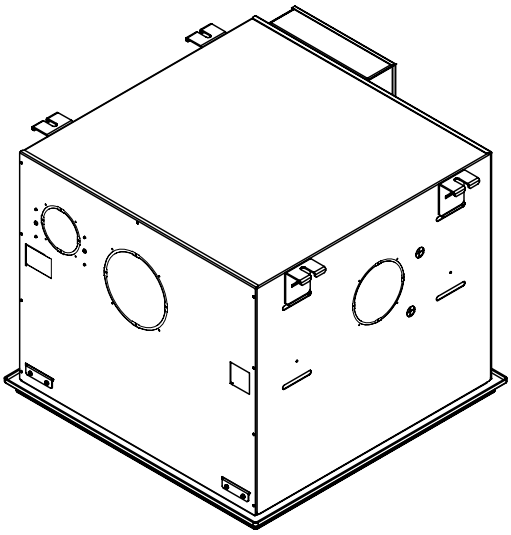
In order to select the cassette UCS/HM in presence of the F7 filter, please use the EURAPO selection software.

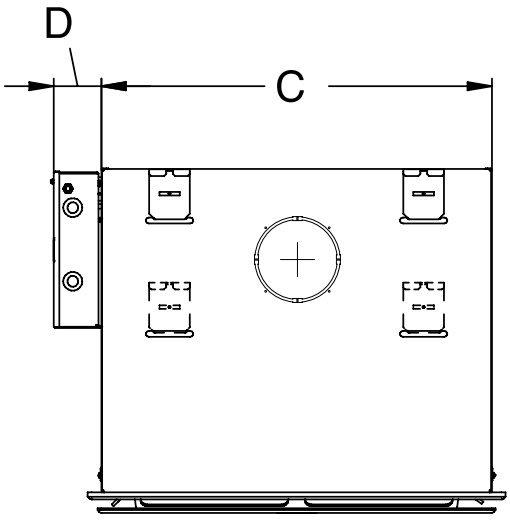
TECHNICAL DATA (max speed-asynchronous)

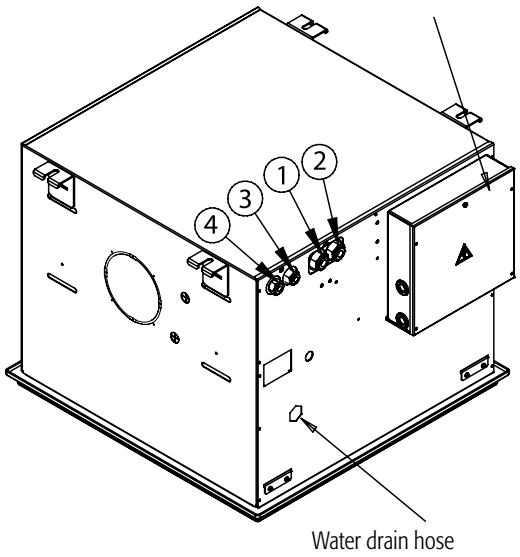
			2 pipes			4 pipes		
			621	622	623	641	642	643
Cooling	Total cooling capacity [kW]		2,52	3,68	4,72	1,76	3,11	3,88
Air temperature 27 °C d.b., 19 °C w.b. Water temperature 7/12 °C	Sensible cooling capacity [kW]		2,12	2,79	3,70	1,62	2,49	3,24
	Water flow [l/h]		434	633	812	303	535	668
	Pressure drop [kPa]		7,8	10,9	16,5	7,5	11,2	16,7
Heating	Heating capacity [kW]		2,66	3,65	4,89	-	-	-
2 pipes Air temperature 20 °C Inlet water temperature 45/40 °C	Water flow [l/h]		458	628	841	-	-	-
	Pressure drop [kPa]		7,0	9,4	14,9	-	-	-
Heating	Heating capacity [kW]		-	-	-	2,01	2,69	3,31
4 pipes Air temperature 20 °C Water temperature 65/55 °C	Water flow [l/h]		-	-	-	173	231	285
	Pressure drop [kPa]		-	-	-	5,8	10,6	15,2
Further data	Air flow [m³/h]		495	495	717	495	495	717
	Sound power level [dB(A)]		52,0	49,0	58,0	49,0	49,0	58,0
	Sound pressure level [dB(A)]		42,6	39,6	48,6	39,6	39,6	48,6
	Power input [W]		53	52	85	52	52	86
	Absorbed current [A]		0,25	0,25	0,38	0,25	0,25	0,41
	Water content [l]		1,34	2,12	2,12	1,34	2,12	2,12
						(0,3)	(0,3)	(0,3)

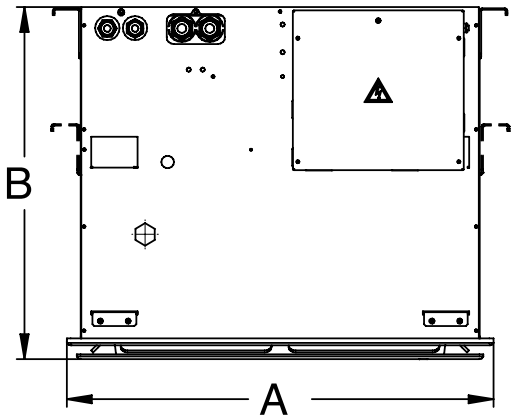
In order to select the cassette UCS/HM in presence of the F7 filter, please use the EURAPO selection software.

DIMENSIONS









	2 pipe system	
1	Inlet water	3/4" F
2	Outlet water	3/4" F

	4 pipe system	
1	Inlet cooling water	3/4" F
2	Outlet cooling water	3/4" F
3	Inlet heating water	1/2" F
4	Outlet cooling water	1/2" F

Dimensions (mm) and weights UCS/H 600	
A	615
B	525
C	575
D	70
kg	39

ACCESSORIES

UCS/HM 600
Metallic grill

ePM1 55% Filter (UCS/HM 600)
Filter with ePM1 55% filtration grade

Pressure switch (UCS/HM 600)
Pressure regulator

_3A2+DT
Valves and shut-off valves

4-PIPE COMPACT KIT
Hydraulic kit for 4-pipe system

D2B2+DT
Pressure independent valve + shut-off valve

EXTRA RAL
Special paintings

EURION
Air ionization system
Air sanitization system

For further accessories visit our website www.eurapo.it or contact us.

OMNIBUS 360 CONTROLS

ORU10/ORBU10
OPower card for asynchronous/ brushless motors, for BMS

ORU11/ORBU11-ORC514
OPower card for asynchronous/ brushless motors, for BMS+Round IR receiver +Air sensor at air intake

ORC515 - Round IR
Console IR receiver on wall

ORC336 - Round Analog
Console for on wall installation

ORC636 - Round Cabin
Console for on wall installation

ORC236 - Round Display
Console for on wall installation

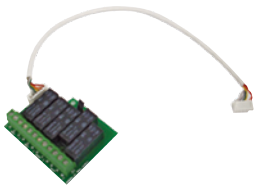
ORC446 - Round Touch
Console for on wall installation

ORS736 - Round Manager
Supervisor for small system (up to 16 units)

ORS810 - Round Master
Supervisor for medium system (up to 100 units)

ORS940 - Round Net
Supervisor for large system (up to 250 units)

App Round Clima
Mobile App for smartphone and tablet



Oxx50
Multitask additional card

OIR30
Infrared remote control

CASSETTE UNIT 900X900 mm FOR HEATING AND COOLING, 2 AND 4 PIPES, CAPACITY FROM 3,9 kW TO 10,15 kW

EURION READY

mod. UCS900

With an innovative, essential and clean design, which fits in every kind of environment, the **UCS900** water cassette unit is the result of the stylist research to present an innovative product in terms of performance, low sound level, comfort and regulation flexibility.

The aesthetics of this unit is accurate in every detail, planned in accordance with the EURAPO experience, appreciated by architects and designers from all over the world.
The **UCS900** water cassette unit can be used for heating and cooling applications, it has been designed to fit into modular or not modular false ceilings, in 2 and 4 pipe systems.

The 900x900mm dimension of the cassette unit permits to satisfy the cooling demand of ambient having quite big volumes. The **UCS900** units in basic configuration are equipped with a condensate pump and they are pre-arranged for the connection to an additional air outlet duct and/or to an external air intake, by using the specific collars, supplied as standard in a kit.

The particular shape of the air outlet plenum is designed specifically in order to obtain the Coanda effect, a phenomenon for which the air outlet flow tends to adhere to the ceiling and falls down smoothly, without blowing directly towards people in the room: the optimal solution for an uniform and pleasant air diffusion.

The **UCS900** cassette unit can be managed by the complete range of EURAPO regulators: from the standard electro-mechanical and microprocessor controls to the digital controls, compatible to BMS Systems.

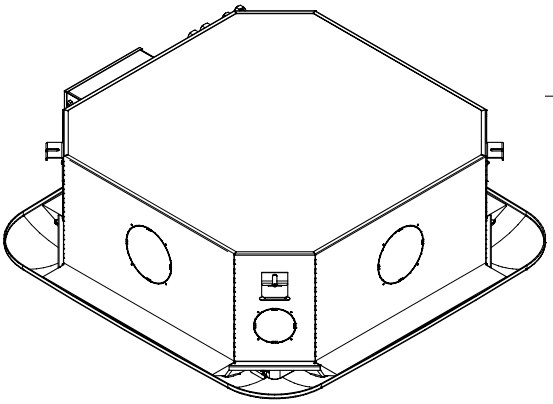
TECHNICAL DATA (max speed-EST)

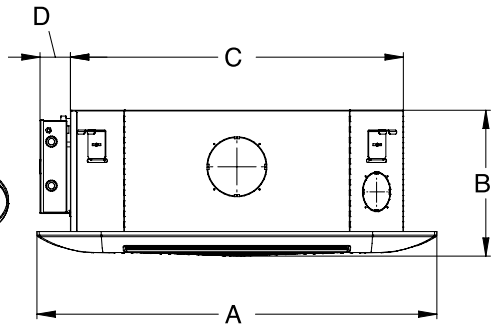
			2 pipes	4 pipes
			922.1	**942.1**
Cooling	Total cooling capacity [kW]		10,15	9,10
Air temperature 27 °C d.b., 19 °C w.b. Water temperature 7/12 °C	Sensible cooling capacity [kW]		7,87	7,34
	Water flow [l/h]		1747	1566
	Pressure drop [kPa]		23,2	24,3
Heating	Heating capacity [kW]		10,31	-
2 pipes Air temperature 20 °C Inlet water temperature 45/40 °C	Water flow [l/h]		1775	-
	Pressure drop [kPa]		21,0	-
Heating	Heating capacity [kW]		-	7,48
4 pipes Air temperature 20 °C Water temperature 65/55 °C	Water flow [l/h]		-	644
	Pressure drop [kPa]		-	26,2
Further data	Air flow [m³/h]		1411	1411
	Sound power level [dB(A)]		62,0	62,0
	Sound pressure level [dB(A)]		52,6	52,6
	Power input [W]		97	98
	Absorbed current [A]		0,80	0,80
	Water content [l]		4,26	4,26
				(0,6)

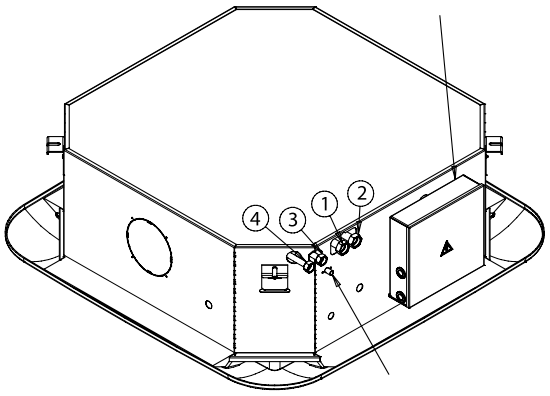
TECHNICAL DATA (max speed-asynchronous)

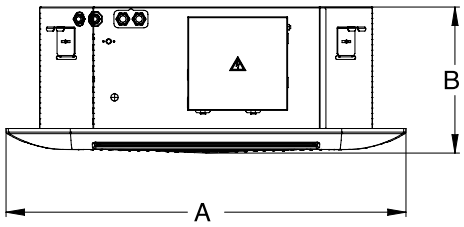
			2 pipes		4 pipes	
			921	**922**	**941**	**942**
Cooling	Total cooling capacity [kW]		8,63	9,99	7,49	9,04
Air temperature 27 °C d.b., 19 °C w.b. Water temperature 7/12 °C	Sensible cooling capacity [kW]		6,10	7,64	5,98	7,46
	Water flow [l/h]		1485	1719	1289	1556
	Pressure drop [kPa]		20,1	26,0	23,2	32,0
Heating	Heating capacity [kW]		8,33	10,18	-	-
2 pipes Air temperature 20 °C Inlet water temperature 45/40 °C	Water flow [l/h]		1433	1751	-	-
	Pressure drop [kPa]		12,1	17,4	-	-
Heating	Heating capacity [kW]		-	-	6,66	7,86
4 pipes Air temperature 20 °C Water temperature 65/55 °C	Water flow [l/h]		-	-	573	676
	Pressure drop [kPa]		-	-	25,0	33,2
Further data	Air flow [m³/h]		1255	1530	1255	1530
	Sound power level [dB(A)]		54,0	61,0	54,0	63,0
	Sound pressure level [dB(A)]		44,6	51,6	44,6	53,6
	Power input [W]		129	161	127	161
	Absorbed current [A]		0,62	0,71	0,61	0,71
	Water content [l]		4,26	4,26	4,26	4,26
					(0,6)	(0,6)

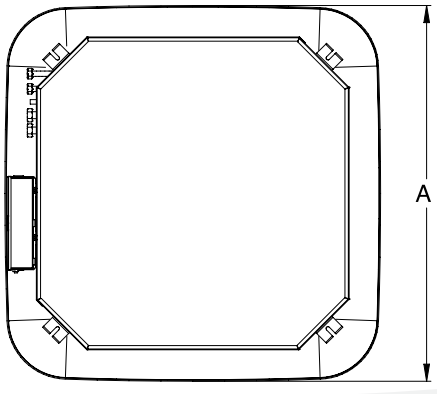
DIMENSIONS











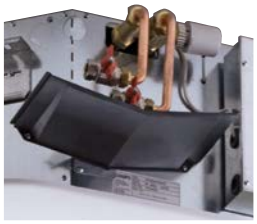
	2 pipe system	
1	Inlet water	3/4″ F
2	Outlet water	3/4″ F

	4 pipe system	
1	Inlet cooling water	3/4″ F
2	Outlet cooling water	3/4″ F
3	Inlet heating water	1/2″ F
4	Outlet heating water	1/2″ F

Dimensions (mm) and weights UCS900	
A	985
B	360
C	820
D	75
kg	45

ACCESSORIES

KREL
Electric heater



VALVE
Valve and shut-off valve

EXTRA RAL
Special painting

EURION
Air ionization system
Air sanitization system

For further accessories visit our website www.eurapo.it or contact us.

OMNIBUS 360 CONTROLS

ORU10/ORBU10
OPower card for asynchronous/ brushless motors, for BMS

ORU11/ORBU11-ORC514
OPower card for asynchronous/ brushless motors, for BMS+Round IR receiver +Air sensor at air intake

ORC515 - Round IR
Console IR receiver on wall

ORC336 - Round Analog
Console for on wall installation

ORC636 - Round Cabin
Console for on wall installation

ORC236 - Round Display
Console for on wall installation

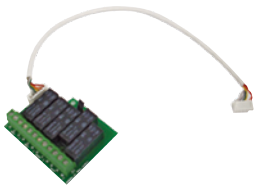
ORC446 - Round Touch
Console for on wall installation

ORS736 - Round Manager
Supervisor for small system (up to 16 units)

ORS810 - Round Master
Supervisor for medium system (up to 100 units)

ORS940 - Round Net
Supervisor for large system (up to 250 units)

App Round Clima
Mobile App for smartphone and tablet



Oxx50
Multitask additional card

OIR30
Infrared remote control

VDI6022 CERTIFIED CASSETTE UNITS, WITHOUT CONDENSATE PUMP, FOR HEATING AND COOLING, 2 AND 4 PIPE, CAPACITY FROM 1,00 kW TO 4,74 kW.

EURION READY

mod. UCS/HM 600 VDI6022

The Eurapo UCS/HM 600 VDI 6022 cassette is a hydronic terminal unit certified according to the VDI 6022 guidelines, which requires air conditioning and heating systems and related components to comply with the highest and **most restrictive hygiene standards**. Compliance with the aforementioned standard guarantees better quality of the treated air: the technical solutions adopted and the extreme scruple (accuracy) in the selection of materials prevent the proliferation of pathogens (such as fungi and bacteria) inside the unit and make healthier also the environment in which it is installed.

The UCS/HM 600 VDI 6022 cassette is particularly suitable both for environments where **high air quality** is required (for example waiting rooms, waiting rooms for clinics, hotel rooms and laboratories) and for particularly crowded spaces, where germs are likely to proliferate (e.g. schools and shopping centers).

Doing away the drain pumps brings the following advantages: reduced noise level, reduced, even if slightly, overall power consumption of the unit and limitation of maintenance. A classified **ePM1 55% filter** (able to capture the 55% of particles of size **between 0,1 µm to 0,3 µm** according to ISO 16890) is provided with the unit. Filter operation can be monitoring continuously: any drop in its efficiency, as a result of the filter medium becoming clogged, results in a decrease in air flow, which is reported immediately by a **differential pressure switch** to the OMNIBUS 360 supervisor (upon request) on the actual unit.

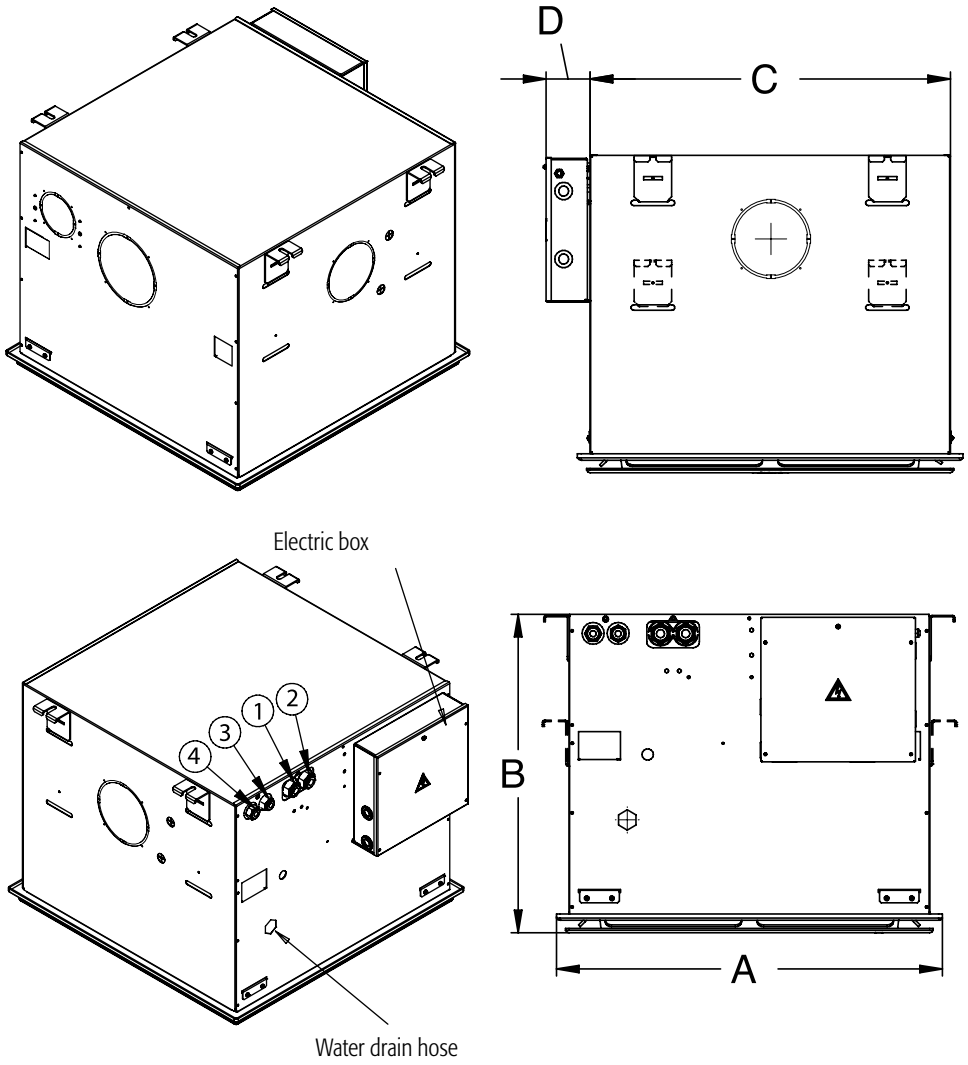
TECHNICAL DATA (max speed-EST)

			2 pipe			4 pipe		
			621	622	624	641	642	644
Cooling	Total cooling capacity [kW]		2,78	4,36	5,38	1,95	4,10	4,3
Air temperature 27 °C d.b., 19 °C w.b. Water temperature 7/12 °C	Sensible cooling capacity [kW]		2,27	3,26	3,95	1,52	3,17	3,38
	Water flow [l/h]		478	748	923	334	704	745
	Pressure drop [kPa]		9,3	12,5	36,9	8,2	13,9	15,1
Heating	Heating capacity [kW]		2,99	4,86	5,51	-	-	-
2 pipe Air temperature 20 °C Inlet water temperature 45/40 °C	Water flow [l/h]		519	845	958	-	-	-
	Pressure drop [kPa]		8,1	12,3	32,2	-	-	-
Heating	Heating capacity [kW]		-	-	-	1,95	4,10	2,16
4 pipe Air temperature 20 °C Water temperature 65/55 °C	Water flow [l/h]		-	-	-	334	704	376
	Pressure drop [kPa]		-	-	-	8,2	13,9	24,0
Further data	Air flow [m³/h]		554	702	760	554	702	760
	Sound power level [dB(A)]		53	58	60	53	58	60
	Sound pressure level [dB(A)]		44	49	51	44	49	51
	Power input [W]		25	42	56	25	42	56
	Absorbed current [A]		0,23	0,38	0,49	0,23	0,38	0,49
	Water content [l]		1,34	2,12	2,12	1,34	2,12	2,12
						(0,3)	(0,3)	(0,3)

TECHNICAL DATA (max speed-asynchronous)

			2 pipe			4 pipe		
			621	622	623	641	642	643
Cooling	Total cooling capacity [kW]		2,54	3,42	4,74	1,86	3,22	3,91
Air temperature 27 °C d.b., 19 °C w.b. Water temperature 7/12 °C	Sensible cooling capacity [kW]		1,98	2,43	3,44	1,46	2,31	3,05
	Water flow [l/h]		436	586	814	319	552	671
	Pressure drop [kPa]		9,0	8,2	14,4	13,4	9,1	12,6
Heating	Heating capacity [kW]		2,69	3,28	4,69	-	-	-
2 pipe Air temperature 20 °C Inlet water temperature 45/40 °C	Water flow [l/h]		468	570	815	-	-	-
	Pressure drop [kPa]		6,8	6,6	12,3	-	-	-
Heating	Heating capacity [kW]		-	-	-	2,17	2,82	4,03
4 pipe Air temperature 20 °C Water temperature 65/55 °C	Water flow [l/h]		-	-	-	190	247	353
	Pressure drop [kPa]		-	-	-	5,4	10,6	17,7
Further data	Air flow [m³/h]		451	451	674	451	451	674
	Sound power level [dB(A)]		49	49	57	49	49	57
	Sound pressure level [dB(A)]		40	40	47	40	40	47
	Power input [W]		0,052	0,052	0,086	0,052	0,052	0,086
	Absorbed current [A]		0,25	0,25	0,38	0,25	0,25	0,38
	Water content [l]		1,34	2,12	2,12	1,34	2,12	2,12
						(0,3)	(0,3)	(0,3)

DIMENSIONS



2 pipe system		
1	Inlet water	3/4" F
2	Outlet water	3/4" F

4 pipe system		
1	Inlet cooling water	3/4" F
2	Outlet cooling water	3/4" F
3	Inlet heating water	1/2" F
4	Outlet cooling water	1/2" F

Dimensions (mm) and weights UCS/HM 600 VDI 6022	
A	615
B	525
C	575
D	70
kg	39

ACCESSORIES

Pressure switch
Pressure regulator

_H3A2+DT
Valves and shut-off valves

4-PIPE COMPACT KIT
Hydraulic kit for 4-pipe system

D2B2+DT
Pressure independent valve + shut-off valve

EXTRA RAL
Colori RAL fuori standard

OMNIBUS 360 CONTROLS

OMNIBUS 360 BUILDING MANAGEMENT SYSTEM

ORU10/ORBU10
OPower card for asynchronous/ brushless motors, for BMS

ORU11/ORBU11-ORC514
OPower card for asynchronous/ brushless motors, for BMS+Round IR receiver +Air sensor at air intake

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App Round Clima
Mobile App for smartphone and tablet

Oxx50
Multitask additional card

OIR30
Infrared remote control

For further accessories visit our website www.eurapo.it or contact us.

COMPACT FAN COIL UNIT FOR HEATING AND COOLING, 2 AND 4 PIPE, CAPACITY FROM 0,65 KW TO 1,35 KW.

EURION READY

mod. SEA-RANGE

With its solid geometry, top-quality components and ergonomic content, designed specifically for **sea cruisers**, SEA-Range actually offers two important strategic advantages:

- **compact units** that are as small as possible to adapt to the space available;
- **easy access from corridors for inspection and maintenance** purposes, without needing to disturb the privacy of cabin guests.

The double skin structure is composed by a galvanized metal sheet insulated with polyolefin closed cell thermal insulation material, by an air delivery and a fresh air intake plenum in galvanized steel with spigot and by two frontal panels, easily removable separetely, one for the electri box zone and the other for the components zone. The condensate tray is made by galvanized metal sheet insulated with polyolefin closed cell thermal insulation material. EC motor available (EST version).

Available accessories: Cu-SS water coil (stainless steel AISI frame and copper fin pack), stainless steel condensate tray, electric heater, G3 filter, 2 or 3 ways valve kit, regulators also for BMS management.

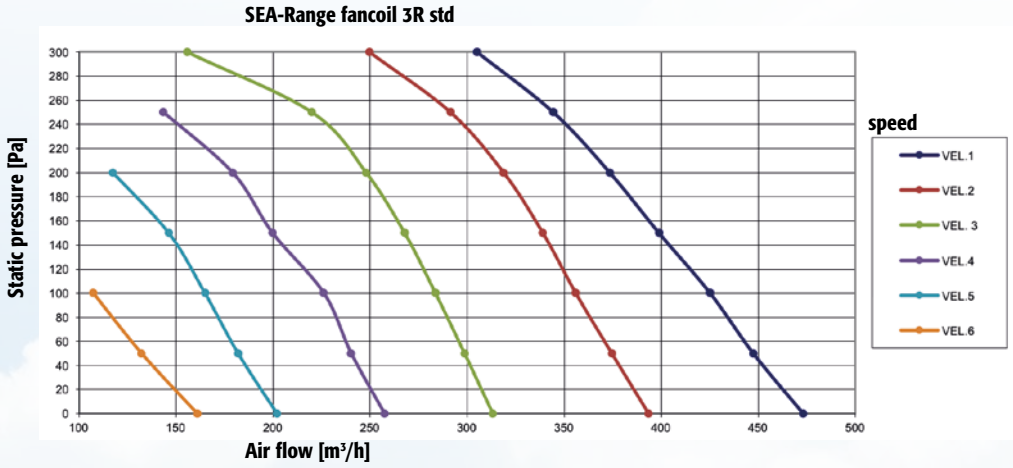
TECHNICAL DATA

		Total Cooling capacity W (1)	Potenza riscaldamento W (2)	Air flow [m³/h]	Sound power level dB(A) (3)
EURAPO MARINE - SEA Range	From	440	1220	118	61
	A	1100	3180	384	48
EURAPO MARINE - ESTSEA Range	From	530	1490	148	57
	A	1070	3040	355	46
Dimensions mm Height x length x depth			996 x 460 x 235		
Weight (with accesories) kg			31,5		

(1) Air: 23°C - 55% RH. Water: IN 6°C; OUT 14°C - at150 Pa

(2) Air: 21°C - Water: IN 70°C; OUT 60°C - 4 pipe system - at 150 Pa

(3) Sound Pressure calculated for a 6.0x6.0x2.8 room , with a 0,3 s reverb time and a microphone at 1,5 m from the source



ACCESSORIES and CONTROLS

KREL
Electric heater

VALVE kit
3 way valve

FILTER
G3 filter

ORV10/ORBV10
OPower card for asynchronous/ brushless motors, for BMS

ORC636 - Round Cabin
Console for on wall installation

For further accessories visit our website www.eurapo.it or contact us.

OMNIBUS 360
BUILDING MANAGEMENT SYSTEM

OPower, the technology

TECHNOLOGICAL INTELLIGENCE AT THE HEART OF AN ADVANCED SYSTEM

The mind of the system is located in the OPower card, an exceptionally versatile hardware installed on board of the water terminal units. OPower is able to receive and process a large amount of input and output data. It is equipped with a very performing microprocessor and 3 independent MODBUS lines. It can be easily programmed and configured according to the user requests and on the basis of the type of system where the unit is installed.

OPower can measure the following input values:

- room temperature;
- water temperature;
- air outlet temperature;
- Economy/Occupancy contact status;
- failure status;
- window contact status.

OPower can manage the following outputs:

- opening/closing of modulating water valves;
- fan operation in "thermostated" or "continuous" mode;
- integration of a radiant system with a hydronic terminal unit;
- control of a primary electric heater;
- activation of the water circulation pump;
- control of other OPower cards in slave mode.

FLEXIBILITY AT THE SERVICE OF ALL-INCLUSIVE SYSTEMS

The flexibility of Omnibus 360 is based on a specific combination of inputs and outputs. It not only ensures comfort and energy saving, but favours also all-inclusive system architectures: management of stand-alone units by use of analogue and digital consoles, centralized management of small, systems with digital regulation and management of large remote systems according to advanced home automation criteria.

MANAGEMENT OF EC BRUSHLESS MOTORS (EST TECHNOLOGY)

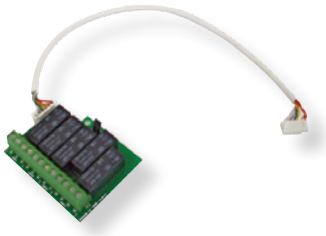
EST INVERTER
ENERGY SAVING TECHNOLOGY

A dedicated OPower card is designed for running EC brushless motors. By setting a specific voltage for each fan speed (Low-Med-High), it allows to modulate the fan in automatic (0-10V) or manual mode.

COMPONENTS

OPower-card
for asynchronous motors for BMS
(built-in the unit)

OPower-card
for brushless motors for BMS
(built-in the unit)



Multitask additional card

Round Inside Console
Console for installation
on board of the fan coil unit.

Console Round Analog
Analogue remote console
for wall installation.

Console Round Cabin
Simplified interface
for wall installation.

Console Round IR
Console with infrared sensor
for installation on the wall
or on the fan coil unit.

Console Round Display
Digital console
for wall installation.

Console Round Touch
Digital interface with touch display
and weekly programming.

SUPERVISION

FOR SMALL SYSTEMS (It allows to manage up to 16 OPower cards)

Round Manager

- Modbus/RTU protocol
- Daily and weekly programming of all units connected to the same network
- Wi-Fi connectivity
- Connection to a cloud server
- 4.3-inch screen and capacitive touch
- Remote management by a dedicated App

FOR MEDIUM SYSTEMS (it allows to manage up to 100 OPower cards)

Round Master

Same features as Round Manager, plus...

- 7-inches touch screen and capacitive screen
- Interaction with other devices of the HVAC system at the same time:
  - cooling and heating unit (chiller/boiler)
  - circulating pumps of the HVAC system
  - modulating valves (for radiant systems)
  - hydronic terminal units
- Configuration of complex scenarios and set up seasonal system programming

FOR LARGE SYSTEMS (it allows to manage up to 250 OPower cards)

Round Net - Webserver with built-in Ethernet card

- Modbus/RTU protocol
- Different access levels (user/supervisor/service)
- Broadcast function
- Set-up parameters configuration
- INPUT/OUTPUT status monitoring
- Daily, weekly and special events program
- Suitable for connecting 1 line of 250 units
- Boost function for a period set by the user
- LAN interface with TCP/IP protocol
- Suitable for the most common web browsers
- Remote management via Internet and by dedicated app

EURION

An integrated sanitisation system that can be equipped in all Eurapo water terminal units

Eurapo's mission is to ensure indoor climate comfort and for this reason we have achieved another important goal. All our water terminal units can be equipped with a tested and certified technology which improves the air quality by removing the substances that can make air less healthy and clean or even harmful, such as chemical, physical, biological and pathogenic agents.

A real commitment to improve the quality of indoor environments

According to the World Health Organization (WHO), about 9 out of 10 people worldwide breathe polluted indoor air. The poor quality of the air has been and still is globally associated with different health issues (this phenomenon has been called "Sick Building Syndrome").

The choice to progress further on the well-being side is carried out by Eurapo in accordance with the need to maintain a high standard of quality in indoor environments, recognized internationally as **IAQ - Indoor Air Quality**. This is one of the parameters which, together with thermal comfort, acoustic comfort and lighting quality, define the **IEQ - Indoor Environmental Quality**, this means the environmental conditions inside buildings that can influence the quality of life of the people who live or work there.

Why employing ionization?

Pollution in an enclosed space can be caused by dust, smoke, bacteria, pollen and allergens that accumulate there causing respiratory problems. If rooms are not sufficiently ventilated, these substances end up contaminating indoor air.
In order to purify it, ionization is used, a technology based on the basic principles of physics. How does it work? It's simple: ions are produced through an electric circuit; they are capable of binding to polluting particles suspended in the air and neutralizing them. How does it happen? Causing them to acquire an electrostatic charge which, weighing them down, causes them to fall.

EURION, the air ioniser that removes both micro-organisms and particulate matter

Eurapo's solution to the desire and need to live in environments that are more comfortable and even healthier is the sanitization system EURION.
A needlepoint bipolar air ioniser that generates cold plasma, composed of both positive and negative ions capable of inactivating micro-organisms such as mould, viruses and bacteria in the air and on surfaces, as well as breaking down particulate matter (PM 2.5 and PM 10).

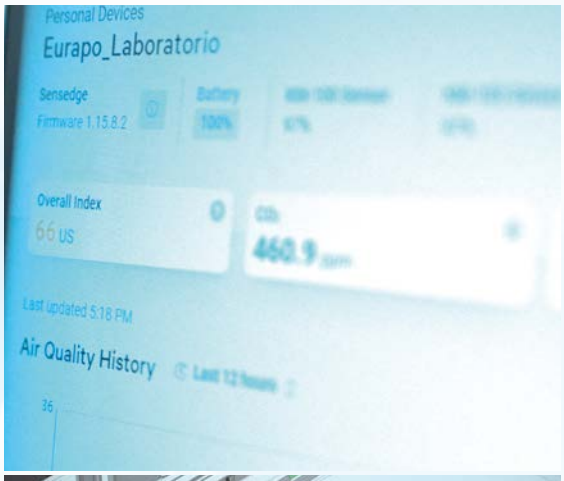
Active sanitisation even in the presence of people

The Needle Point Bipolar Ionization (NPBI) technology is extremely reliable because it allows to perform both passive sanitisation of environments (polluted air enters the device where it is purified and then released clean into the environment) and active sanitisation of environments (the ions released by the device are spread into the treated environment, sanitising both the air and inert surfaces).
In addition to this, it offers the advantage of being enclosed in a very small device that can be easily integrated into all Eurapo water terminal units and requiring minimal maintenance. This air ionization technology, as is it harmless to living creatures, can also be used in the presence of people.

Ionization: a winning choice against the most varied substances

The superior effectiveness of the ionization action in reducing PM and inhibiting micro-organisms and allergens immediately emerges by comparing the main sanitisation technologies together.

TECHNOLOGY	PM	MICRORGANISMS	ALLERGENS (Pollen, Mites etc.)
PASSIVE SANITIZATION			
UV Light		✓	
HEPA filters	✓	✓	✓
Photocatalysis on filters	✓	✓	
Electrostatic filters	✓	✓	✓
ACTIVE SANITIZAZION			
Cold plasma		✓	✓
Active photocatalysis	✓	✓	✓
Cold plasma with bipolar ionizer	✓	✓	✓



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