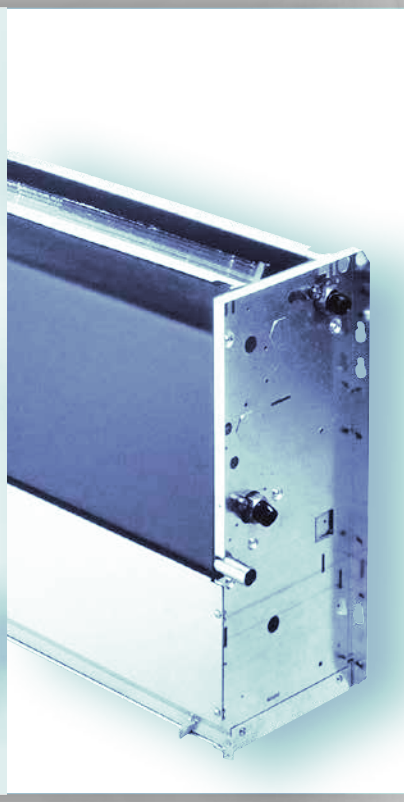
EN

ENERGY SAVING TECHNOLOGY

SIGMA
PRISMA
LOW BODY
CONCEALED



EUROPO

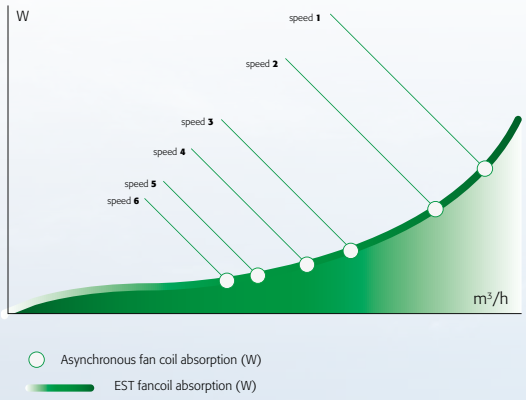
INTEGRATED
COMFORT
SYSTEMS

EST INVERTER
ENERGY SAVING TECHNOLOGY

EST (Energy Saving Technology) is applied to the EURAPO fan coil units and cassette units. It permits to obtain extremely low electrical absorption and a continuous modulation of the air flow, constantly related to the concrete need of energy in the room.

EST technology is composed by a brushless motor combined to a dedicated electronic device (inverter), managed by specific regulators developed by **EURAPO**.

In comparison to the traditional units equipped with asynchronous three-speed-motors, the fan coil and cassette units with brushless motors can obtain a considerable **energy saving**, by reducing the power consumption **up to 70%.**



Thanks to the step-less modulation of the fan speeds it is possible to accurately regulate the air volume in a very precise way, in strict relation to the real need of air conditioning in the room. Oscillations in the temperature and relative humidity are reduced at lowest level: a guarantee for the **highest comfort in the room**.

The possibility to reach very low air volumes makes the units extremely quiet at the lowest motor revolutions.

EST technology is designed in particular for offices, hospitals, nursing homes and hotels.

It is available for the **EURAPO** range of fan coil units, cassette units and ducted units.

The EST technology consists of a brushless motor combined to a dedicated electronic device (inverter), managed by specific regulators. The controller uses a modulating signal with 0-10Vdc tension in order to regulate the fan speed.

The brushless electric motor is composed by a rotor having permanent magnets, whose magnetic fields interact with the ones produced by the stator winding.

The transfer of current is no longer by mechanical commutation (sliding contacts) but by an electronic commutation system: an electronic controller (inverter) powers the motor's stator and generates rotating magnetic fields, that determine the rotor's speed.

For applying the EST technology also to the ducted units, the inverter is provided with DIP SWITCHES that can be also set on site, during start-up of the unit. This high flexibility grants the proper configuration for every kind of installation, by personalization of the Dip Switches accordingly to the pressure drop in the system.
Brushless motors develop much less heat than the traditional brushed motors and they have much lower mechanical resistance than the standard asynchronous ones. They offer several advantages, like as higher efficiency, longer lifetime, less need of maintenance. The absence of brushes eliminates also the main source of electromagnetic noise.
By giving a 0-10Vdc signal to the inverter, an electronic regulator intervenes by simply managing the fan speed and the rotor's torque in a continuous way, adapting with extreme precision the air volume to the real and punctual requirements in the room.
For managing all units equipped with brushless motors, EURAPO developed a new microprocessor control, available both built-in the unit (EDCL) and for remote installation on the wall (EDCR).
Also the OMNIBUS digital system has been implemented in order to be combined to the EST technology: the new cards for fan coil units (OBV10) and for cassette units (OBU10) can be connected to the new OMNIBUS consoles, designed for managing fan coil and cassette units with brushless motors. The consoles are available for on-wall installation (ODC236), fitted in the fan coil unit or for built-in the wall installation, on 503 modules (ODC235 white colour and ODC245 black colour).
OMNIBUS regulators give the possibility to fully control the fan speed (0-100%) and/or to manually select three fan steps (high, med and low speed): it is actually possible to set in every moment and very easily the three different levels of motor's rotation, in order to fulfil specific thermal or acoustical requirements.

FEATURES

- 0-10Vdc control signal
- Low mechanical resistance and low overheating
- Wide range of fan speed regulation, especially at the lowest revolutions
- Continuous regulation of the fan speeds (0-100%)
- Possibility to manually set the desired three fan steps (by using OMNIBUS regulators)
- Available for Sphera, Sigma, Prisma, Low Body, Incasso fancoil units, UCS, UCS/M, UCS/H cassette units and CH/H, EBH and EDS ducted units

ADVANTAGES

- Energy saving: electrical absorption reduced up to 70%
- Higher efficiency: possibility to adapt the air volume and the capacities accordingly to the real room loads
- Higher comfort: reduced oscillation of the temperature and relative humidity in the room
- Extremely quiet functioning of the unit, thanks to the operation at low revolutions
- Reduced wearing and higher reliability
- Longer expected lifetime of the motor

FAN COIL

SIGMA

FANCOIL UNIT

Fancoil unit with housing,
for heating and cooling applications,
2 and 4 pipes, capacity from 0,60 kW a 11,72 kW.

Sigma fancoil unit is compatible with every kind of environment. It is versatile in the different applications, discreet in the lines, reliable in the performances.
This fancoil designed by Eurapo, holds in high regard the harmony and linearity of units and is compatible with every kind of environment thanks to its configuration variety: it can be installed on the floor, thanks to firm feet and with frontal suction, or mounted on the ceiling in both configurations.

The Sigma housing, with upper air outlet, 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, in white colour.
Important part: the filter is totally retractable and easily accessible; it is particularly strong and wear and tear resistant.It needs short time for routine maintenance.
In order to make Sigma fancoil more complete, Eurapo offers a large range of kit accessories, from the simple electromechanical regulations and on/off valves to the advanced systems with modulating valves and digital Bus management.

PRISMA

**Fancoil unit with housing,
for heating and cooling applications,
(only PV and PV/AF),
2 and 4 pipes, capacity from 0,60 kW to 3,90 kW.**

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.

The Prisma housing, with upper air outlet, 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, in white colour.
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.

LOW BODY

**Fancoil with reduced height,
for heating and cooling operation,
for 2 and 4 pipe system, capacity from 0,48 kW to 3,70 kW.**

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 in all RAL colours available (standard colour is RAL9003), access doors and grilles are made of white colour heat-resistant ABS and can be turned into all four directions.
To complete all models Eurapo offers a wide range of accessories.

CONCEALED UNIT

Fancoil without casing,
for heating and cooling operations,
for 2 and 4 pipe system, capacity from 0,60 kW to 11,72 kW.

The concealed fancoil is a unit which can be used for ductwork installations: it has very good performances also with medium/long ducts; 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 10 sizes, the concealed model is supplied 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.

OMNIBUS

OMNIBUS
BUILDING MANAGEMENT SYSTEM

Yet designing and producing air conditioning systems comprising selected, reliable components is not sufficient in itself to guarantee high standards of air-conditioned comfort, these also need to be integrated and harmonised with the **intelligence controlling** them.
Only complete synergy between **terminal unit performance** and **heat regulating devices** can guarantee optimum results and meet the most modern requirements in comfort management simply and efficiently.

The **EURAPO-OMNIBUS** Digital System is designed to fully regulate the water terminal units (such as fan coil units, water cassette units, high pressure ducted fan coil units and radiant systems) for domestic use, residential buildings and public rooms.
This controller permits to be easily programmed by the installing company and configured accordingly to each particular type of system.

- Elegant design
- LCD Display
- Touch screen
- Humidity sensor
- Plug & Play connections
- Weekly, daily and monthly programs
- Scenarios configuration
- Compatible with brushless and inverter technology
- Flexible configuration
- Service tool available
- MODBUS RTU: free protocol
- ETHERNET (TCP/IP) compability
- LONWORKS® compatibility
- Different access levels to the Building Management System

OTOUCH

INNOVATIVE TOUCH SCREEN DEVICE

OTOUCH is a control and supervision system developed by Eurapo Laboratories in order to manage residential comfort. This high tech solution is matched with an easy-to-use graphical interface, which has been designed in cooperation with Udine University in order to guarantee an intuitive and simply comfort control.

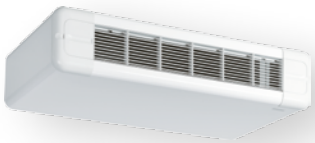
OTOUCH can functionally fully control air conditioning system devices (such as fan coils units) or radiant systems (such as hydraulic actuators or dehumidifiers) or even both at the same time, following an innovative idea of control philosophy. Its distinctive feature consists of being able to monitorize and control all functions of fan coils units toghether with the capability of interacting and integrating different HVAC system devices in the same control panel.

OTOUCH can control:

- Cooling and heating units (chillers / boilers)
- HVAC system pumps
- Mixing valves (for radiant systems)
- Thermal zone valves
- Dehumidifiers
- Fan coil units

SIGMA

mod. SH



mod. SH/AF

mod. SV

mod. SV/AF

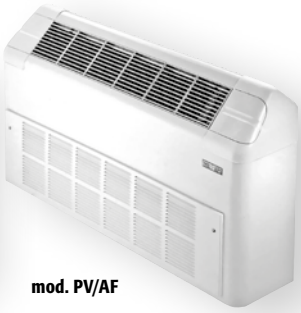
PRISMA

mod. PH

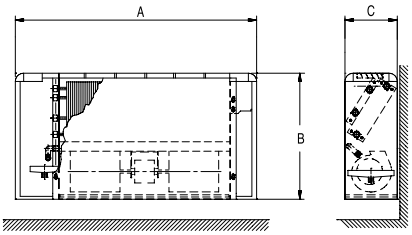
mod. PH/AF

mod. PV

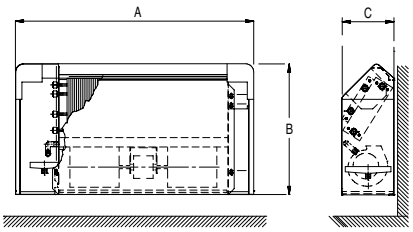
mod. PV/AF



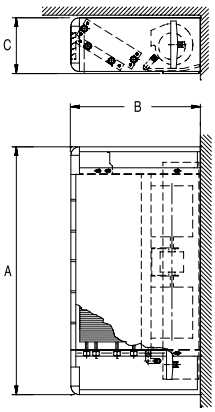
mod. SV



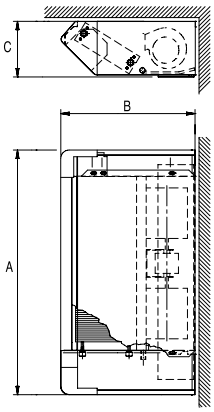
mod. PV



mod. SH/AF



mod. PH/AF



Dimensions (mm) and weight for SV - SV/AF - SH - SH/AF

	110	112	114	216	218	220	222	224	226	228
A	648	773	898	1023	1148	1273	1273	1523	1523	1773
B	538	538	538	538	538	614	614	614	614	614
SV - SH										
C	224	224	224	224	224	254	254	254	254	254
Kg	18	20	23	28	31	41	44	52	52	58
SV/AF - SH/AF										
C	233	233	233	233	233	263	263	263	263	263
Kg	19	21	24	30	32	43	46	54	54	61
HYDRAULIC CONNECTION 1/2" G F										

Dimensions (mm) and weight for PV - PV/AF - PH - PH/AF

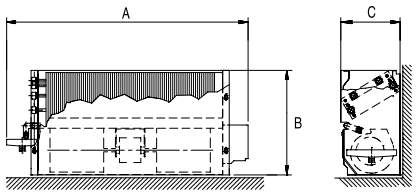
	110	112	114	216	218
A	648	773	898	1023	1148
B	560	560	560	560	560
PV - PH					
C	226	226	226	226	226
Kg	17	20	23	27	31
PV/AF - PH/AF					
C	235	235	235	235	235
Kg	18	21	24	28	32
HYDRAULIC CONNECTION 1/2" G F					

LOW BODY

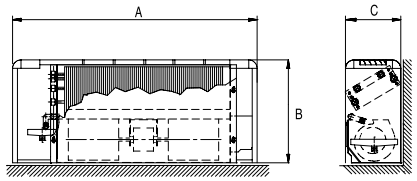
mod. SVR

mod. CVR

mod. CVR



mod. SVR



Dimensions (mm) and weight CVR

	110	112	114	216	218
A	555	680	805	930	1055
B	395	395	395	395	395
C	230	230	230	230	230
Kg	9	11	14	16	19
HYDRAULIC CONNECTION 1/2" G F					

Dimensions (mm) and weight SVR

	110	112	114	216	218
A	648	773	898	1023	1148
B	430	430	430	430	430
C	254	254	254	254	254
Kg	15	17	22	23	26
HYDRAULIC CONNECTION 1/2" G F					

CONCEALED

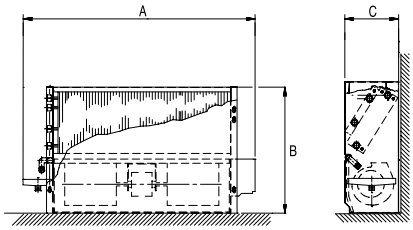
mod. CH

mod. CH/AF

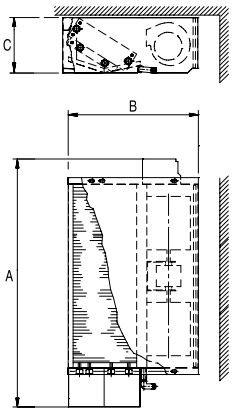
mod. CV

mod. CV/AF

mod. CV/AF



mod. CH



Dimensions (mm) and weight for CV - CV/AF - CH - CH/AF

	110	112	114	216	218	220	222	224	226	228
CV - CH										
A	555	680	805	930	1055	1180	1180	1430	1430	1680
CV/AF -CH/AF										
A	574	699	824	949	1074	1199	1199	1449	1449	1699
CV - CV/AF - CH - CH/AF										
B	505	505	505	505	505	581	581	581	581	581
C	215	215	215	215	215	245	245	245	245	245
Kg	10	13	16	19	22	29	31	38	38	42
HYDRAULIC CONNECTION 1/2" G F										

GENERAL FEATURES

The **inner frame** is completely lined with self-extinguishing thermal insulation material. The sides have a special structure near the coil connections in order to avoid the pipes deformation while connecting the unit to the system (antitorsion structure).

The **insulation** is placed over all the critical parts of the unit to avoid any condensate risk. The insulated condensate tray can be taken apart independently of the other components. All the units are always provided with an auxiliary drain pan to be fixed under the water connections.
ATTENTION: *all the models are suitable for heating and cooling operations, except PH and PH/AF models, suitable only for heating*

The **coil** consists of aluminium fin packs and mechanically expanded copper tubes; each header is provided with a very handy air valve. Testing pressure 30 bar, operating pressure 16 bar. 2 and 3 row coils are available for all models, 4 row coils for all models except PRISMA and LOW BODY, 3 rows direct expansion coils are available for all models, except PH and PH/AF.
For 4 pipes installations, an additional 1-row coil for heating mode can be added (see Accessories).

Standard water connections are on the right side of the unit, facing the air outlet; however the coils can be easily removed and reversed on site. All water connections are ½" G (female threaded).

The **fan deck** consists of a centrifugal fan, one (110÷114 sizes) or two (216÷228 sizes) aluminium impellers, directly splined to the motor shaft, and galvanized steel scrolls; it can easily be removed, independently of the inner frame, making control, maintenance and replacement very simple. Each fan assembly is dynamically balanced to achieve excellent sound performances.

The **motor** is single phase, with permanently connected capacitor and thermal protection of the windings. It is provided with 6 speeds, 3 of them factory wired as standard; the others can easily be used when there are special plant requirements.
Protection grade: IP 41.

The **electric panel** is contained inside a box made of insulating material and fixed on the left side of the inner frame; it can easily be removed and shifted from the left to the right side when the coil connections are reversed. For concealed and horizontal units remote controllers can be provided (on request).

The **housing** is manufactured with sheet steel and painted with oven dried epoxy powders. Standard colour is RAL 9003 (white) for SIGMA, PRISMA and LOW BODY series.
On request, other colours can be provided.
Vertical models, with upper air outlet and bottom air intake (SV-PV-CV) or frontal (SV/AF – PV/AF – CV/AF-SVR-CVR) can be installed on the wall or on the floor (with a set of feet for SV and PV).
Horizontal models, for ceiling installation, have a frontal air outlet and a rear (SH-PH-CH) or bottom (SH/AF-PH/AF-CH/AF) air intake.

The standard **grilles** are independent and can be turned into all 4 directions without any tool. They are in self-extinguishing ABS.

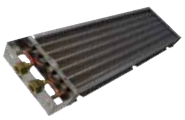
Access doors are in the same colour and material of the grilles.

The **air filter** consists of a metal frame enclosing the filter element (a polypropylene net). In order to have better fancoil performances, **it is suggested to keep the filter properly clean**, by washing it with soap and water and drying in open-air.

ACCESSORIES

BA1

Additional 1 row coil for hot water, for 4-pipes systems. It can be added to units with a 2 or 3 row coils. Not available for PH and PH/AF models.



BA41

Additional 1 row coil for hot water, for 4-pipes systems. It can be added to units with a 4 row coils. The thickness is of 60 mm and it is available for CONCEALED series.

KRE

Electric heater supplied with safety thermostat and power relay. Not available with 4 row coils. For PRISMA and LOW BODY series, it is available only with 2 row coils.

TM

Minimum water temperature thermostat. During heating operation, it prevents the fan from starting if the coil temperature has not reached the set point temperature.

CP

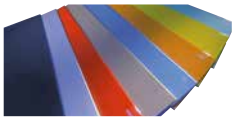
Set of painted steel feet (same colour as the casing), or with the frontal grille (ZL).

PM

Air delivery plenum made of galvanized steel sheet, provided with circular or rectangular spigots for the connection to the air duct.

PC

The condensate pump is necessary when the natural water discharge is not allowed.



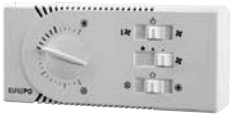
Not Standard Colour

Special colour of the housing, available in all RAL range.

Valves

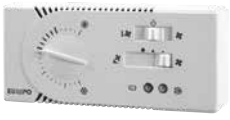
EURAPO is able to offer several kinds of valves (ON/OFF and modulating) in order to have the best solution for any need regarding the water flow regulation.

CONTROLS



CMR00

Remote room temperature thermostat, suitable for the selection of the main functions of the unit: type of ventilation, fan speed selection, Summer/Winter switch and room temperature control.



CER20-CER30

Microprocessor electronic controls for the automatic selection of the main functions of the unit, available in several configurations.

EDCL-EDCR

Remote microprocessor control, built-in the unit or "on wall" installation, designed for water terminal units equipped with Brushless motors (EST Inverter Technology).
It permits to control the type of ventilation, the fan speeds, Summer/Winter switch and room temperature thermostat.

Console display

New and elegant device that permits to set all working parameters (set point, speed, status, etc.). It can also be used as diagnosis instrument, thanks to the parameters visualisation and modification.
Compatible with the Supervision System.

Console Analogica Plus

Elegant and simple console for the setting of the temperature set point, the functioning of the fancoil unit, the S/W changeover and the speed selection.
Compatible with the Supervision System.

TECHNICAL DATA (3 rows - EST)

				112	114	216	220	222	224	228
Cooling	Air temperature 27 °C d.b., 19 °C w.b. Water temperature 7/12 °C	Total cooling capacity [kW]	9 V	1,91	2,90	3,60	5,01	6,06	8,11	10,50
			6 V	1,35	2,15	2,55	3,75	4,50	5,71	7,30
			3 V	0,63	1,02	1,18	1,98	2,03	3,21	4,30
		Sensible cooling capacity [kW]	9 V	1,57	2,39	2,84	4,04	4,97	6,49	7,90
			6 V	1,08	1,70	1,92	2,91	3,55	4,57	5,40
			3 V	0,49	0,79	0,91	1,50	1,61	2,45	3,00
		Water flow [l/h]	9 V	328	498	618	860	1120	1392	1802
			6 V	232	369	438	643	793	980	1253
			3 V	108	175	202	340	408	551	738
		Pressure drop [kPa]	9 V	8,90	8,40	13,20	28,30	17,10	24,10	42,30
			6 V	4,80	4,70	7,30	17,40	8,40	12,90	25,00
			3 V	1,40	1,60	1,80	5,60	7,70	4,30	10,20
Heating	Air temperature 20 °C Water inlet temperature 50 °C	Heating capacity [kW]	9 V	2,64	4,08	5,16	6,35	8,01	9,92	10,80
			6 V	1,90	2,71	3,77	4,72	5,49	6,71	8,20
			3 V	0,98	1,27	2,07	2,42	2,76	4,22	5,30
		Water flow [l/h]	Value as Cooling accordingly to the Eurovent Standards and UNI ENV 1397 Norm							
		Pressure drop [kPa]	9 V	3,70	7,30	12,90	23,30	26,00	22,80	39,80
			6 V	2,60	3,50	7,10	17,60	7,20	10,70	23,00
			3 V	2,10	1,50	1,80	4,40	6,30	3,50	8,70
Heating	Air temperature 20 °C Water temperature 70/60 °C	Heating capacity [kW]	9 V	4,56	7,04	8,85	10,76	13,84	16,73	17,84
			6 V	3,27	4,61	6,52	7,97	10,13	11,24	13,68
			3 V	1,69	2,17	3,57	4,06	5,24	7,11	8,91
		Water flow [l/h]	9 V	400	619	777	945	1216	1469	1566
			6 V	287	405	572	700	890	987	1202
			3 V	149	190	314	357	460	625	783
		Pressure drop [kPa]	9 V	5,30	10,70	19,20	26,80	33,00	24,30	29,70
			6 V	3,80	4,00	11,30	19,80	8,60	10,50	20,50
			3 V	3,70	1,70	3,80	4,60	7,60	4,20	9,30
Further data		Air volume [m^3/h]	9 V	432	583	793	1010	1305	1828	2050
			6 V	286	379	523	675	857	1200	1330
			3 V	128	172	248	323	403	582	620
		Sound power level [dB(A)]	9 V	56	57	61	57	63	67	70
			6 V	45	49	50	46	57	57	61
			3 V	31	30*	34	30*	37	45	41
		Sound pressure level [dB(A)] (1)	9 V	46	48	51	48	53	58	60
			6 V	36	40	41	37	48	48	52
			3 V	30*	30*	30*	30*	30*	36	32
		Power input [W] (2)	9 V	31	48	52	50	104	170	230
		Absorbed current [A] (2)	9 V	0,28	0,42	0,46	0,44	0,88	1,37	1,70
		Water content [l]		0,79	1,05	1,31	2,20	2,20	2,84	3,47

(1) Sound pressure level, in a 100 m^3 room, 1.5 m distance and reverberating time of 0.3 s.
(2) Electrical supply: 230-1-50 [V-ph-Hz].
*Minimum value measurable in laboratory, indicated by Eurovent.

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NOTE
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TECHNICAL DATA (3 rows - asynchronous)

				110	112	114	216	218	220	222	224	226	228
Cooling	Air temperature 27 °C d.b., 19 °C w.b. Water temperature 7/12 °C	Total cooling capacity [kW]	MAX	1,16	1,64	2,20	3,36	3,58	4,53	5,19	6,57	7,41	9,50
			MED	0,99	1,35	1,92	2,72	3,05	3,75	4,48	5,87	6,81	7,75
			MIN	0,79	1,10	1,60	2,24	2,50	2,99	3,91	4,70	5,61	6,18
		Sensible cooling capacity [kW]	MAX	0,98	1,30	1,96	2,52	3,14	3,62	4,54	5,20	5,86	7,02
			MED	0,82	1,03	1,68	2,00	2,57	2,91	3,83	4,56	5,32	5,53
			MIN	0,64	0,82	1,36	1,60	2,04	2,25	3,27	3,53	4,26	4,27
		Water flow [[l/h]	MAX	199	281	414	577	614	777	891	1127	1271	1630
			MED	170	232	360	467	524	643	769	1007	1168	1330
			MIN	136	189	300	366	429	513	671	806	963	1060
		Pressure drop [kPa]	MAX	3,40	7,10	5,80	14,80	13,60	24,10	28,40	18,80	21,00	36,90
			MED	2,80	5,00	4,60	12,50	9,80	17,40	21,80	15,50	18,10	25,80
			MIN	2,00	3,40	3,30	8,50	6,70	11,60	17,20	10,50	12,80	17,30
Heating	Air temperature 20 °C Water inlet temperature 50 °C	Heating capacity [kW]	MAX	1,57	2,16	3,05	4,11	4,95	5,71	7,19	7,83	9,33	10,70
			MED	1,28	1,73	2,43	3,44	4,16	4,65	6,08	6,94	8,51	8,60
			MIN	1,00	1,35	2,00	2,75	3,35	3,61	5,25	5,45	6,86	6,74
		Water flow [l/h]	Value as Cooling accordingly to the Eurovent Standards and UNI ENV 1397 Norm										
		Pressure drop [kPa]	MAX	2,70	6,10	4,80	11,90	12,50	20,00	23,50	15,50	20,50	34,60
			MED	2,30	4,70	3,70	8,50	9,10	14,30	18,00	12,70	17,60	24,20
			MIN	1,70	3,10	2,80	5,70	6,30	9,50	14,20	8,70	12,40	16,30
Heating	Air temperature 20 °C Water temperature 70/60 °C	Heating capacity [kW]	MAX	2,74	3,70	5,20	6,93	8,48	9,64	12,25	13,19	15,77	17,83
			MED	2,23	2,94	4,09	5,82	7,12	7,85	10,32	11,66	14,38	14,35
			MIN	1,74	2,28	3,37	4,65	5,71	6,04	8,93	9,15	11,58	11,22
		Water flow [l/h]	MAX	241	325	456	608	745	847	1076	1159	1385	1566
			MED	196	258	359	511	625	689	907	1024	1263	1260
			MIN	153	201	296	408	502	531	784	804	1017	985
		Pressure drop [kPa]	MAX	3,80	7,80	5,60	12,70	17,30	22,60	32,20	15,70	23,10	30,90
			MED	2,90	5,60	3,60	9,80	12,20	15,60	23,50	12,60	19,60	21,10
			MIN	2,10	3,40	2,60	6,20	8,10	9,70	18,20	8,30	13,20	13,70
Further data		Air volume [m^3/h]	MAX	245	320	436	580	709	856	1074	1254	1481	1687
			MED	191	249	358	456	592	676	920	1113	1352	1151
			MIN	144	194	289	338	474	527	739	797	999	838
		Sound power level [dB(A)]	MAX	48	50	54	53	55	54	60	60	63	67
			MED	42	45	49	47	50	48	56	55	60	60
			MIN	36	38	42	40	43	40	50	47	53	55
		Sound pressure level [dB(A)] (1)	MAX	39	41	44	44	46	44	50	49	53	57
			MED	33	36	39	38	42	38	45	47	51	50
			MIN	30*	30*	33	31	34	31	40	40	44	45
		Power input [W] (2)	MAX	46	48	57	61	86	90	117	140	162	178
		Absorbed current [A] (2)	MAX	0,23	0,23	0,26	0,29	0,33	0,38	0,52	0,65	0,65	1,04
		Water content [l]		0,53	0,79	1,05	1,31	1,57	2,20	2,20	2,84	2,84	3,47

(1) Sound pressure level, in a 100 m^3 room, 1.5 m distance and reverberating time of 0.3 s.
(2) Electrical supply: 230-1-50 [V-ph-Hz].
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