Floor- or ceiling-mounted slim fan coil with DC motor for heating and cooling

ELFORoom^2 003.0-017.0

TECHNICAL BULLETIN

SIZE	003.0	005.0	011.0	015.0	017.0
COOLING CAPACITY KW	0,73	1,36	2,08	2,39	2,57
HEATING CAPACITY KW	0,78	1,53	2,16	2,59	2,82

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Feature and benefits

ELFORoom^2 is part of ElfoSystem and SPHERA is the heart of ELFOSystem that Clivet has designed for residential installations.
It is characterized by great flexibility, thanks also to the availability of many accessories that amplify its potential.
The simple design and reduced size make ELFORoom^2 the room terminal suited to any kind of interiors.
The solid structure, entirely made up of metal components, makes it indestructible and comparable to a radiator.

Reduced thickness
A thickness of only 13 cm makes it extremely suitable for residential settings when compared to traditional fan coils which usually have a thickness of 22 cm.

Easy to clean
Flat surfaces and materials allow to easily and quickly clean the external casing. The air filter can be easily cleaned by anyone, as the front intake grille can be opened with a simple touch of a finger.

Homogenous temperature
The continuous operation of the fan and its gradual speed change ensure the air is constantly moved.
This allows to obtain a perfectly even temperature, thereby preventing stratification. The comfort is further increased thanks to the low air speed, which cannot be perceived by people in the room, thereby allowing to achieve high comfort levels.

Reduced consumptions
The exclusive electric DC motor of ELFORoom^2's fan ensures reduced consumption as the ventilation can be modulated. The high efficiency levels of its innovative technological solution noticeably limits the energy required to operate it correctly, thereby reducing the power used and running costs compared with traditional fan-coils. Compared with a traditional fan-coil, it is possible to achieve savings of about 40% in terms of electricity and 60% in terms of absolute power.

Silence
ELFORoom^2 is fitted with a tangential fan operated by a special motor whose continuous operation allows to always operate a very low speeds, making it extremely silent. It employs high ventilation speed only to reach the comfort temperature in the room more quickly. ELFORoom^2's advanced control system allows to constantly adjust the fan's speed to the required thermal demand.

Cleans the air while conditioning
ELFORoom^2 combines a complete and flexible temperature control with a focus on the quality of the air. The fact that the air is constantly moved allows to continuously purify it and remove the dust contained in it. The system to access the filter has been specifically designed to ensure cleaning operations can be carried out easily and quickly directly by the end user.

Satisfies all installations
ELFORoom^2 is a room terminal that can be installed in any architectural setting as it comes with both a vertical uncased and built-in wall version and a horizontal uncased and built-in ceiling version.
A full range of accessories such as the feet used for floor installation, the supply and intake plenums, the formwork for built-in installation and many other accessories make ELFORoom^2 a complete system to meet a number of installation solutions.

Structure
Load-bearing structure made of highly resistant electro-zinc coated sheet parts and ABS sides.

Panelling
External panelling of the unit in painted sheet metal, matt RAL 9003 finish with plastic (UL V0 flame-retardant) components. Where necessary, the panels can be removed to be able to fully access internal components.

Air exchanger
Thermal exchange coil featuring copper pipes and aluminium finned coils with a highly efficient device that generates turbulence. Eurokonus 3/4 threaded fittings that ensure tightness without the addition of other elements (hemp, gaskets, Teflon, liquid sealants, etc.) thanks to an O-ring gasket placed directly on the female fitting. The gasket can ensure tightness as it fits perfectly with a special countersink on the male fitting.
The coil is fitted with a sensor to detect the temperature of the water, which allows to activate the ventilation only if the water is less than 20°C in cooling mode and above 30°C in heating mode

Fan
Tangential fan made of synthetic material with staggered blades (high-level of silence) assembled on vibration-proof EPDM supports.

Supply air grille reversible
Made with painted grey aluminium with oven-dried epoxy powder. The supply grille can be rotated to divert the air flow towards the room or towards the wall.

Intake grille
Made with white electro-galvanised painted sheet metal with oven-dried epoxy powder (RAL9003) with a quick-release device to clean the filter and safety microswitch.

Electrical motor
Brushless DC motor with variable speed mounted on EPDM antivibration supports

Filtration
NAN net filter made with honeycomb multilayered polypropylene fabric (weight efficiency A, gravimetric determination 48%).

Tray
Removable shock-proof PVC tray for periodical cleaning

Electrical panel
The electrical panel, consisting of a microprocessor control, is located inside the unit and can be accessed via a panel which can be easily removed.
Uncased ELFORoom^2 with on-board thermostat makes it completely independent the terminal since it allows selecting, using 8 touch buttons and a backlit LCD, fan speeds, the ON/OFF, the adjusting of the desired temperature and the selection of cool or heat moode.
ELFORoom^2, uncased and built-in for installation with a wall thermostat (HID), has a electronic board with an LED to report alarms.

The wall-mounted thermostat (HID) that can be connected to the terminal is:
- HID-T6 - wall room thermostat with temperature probe

All standard ELFORoom^2 configurations have:
- due outputs to control a cooling and heating generator
- remote ON-OFF
- serial board for the network connection to be integrated with Control4 NRG.

Connections
The standard unit is fitted with connections on the left-hand side. The water connections to the coil are 3/4” EUROKONUS connections and there are 3/4” flat adapters. The size of the condensation drain is 14 mm. If the coil is rotated for the connections on the right-hand side, it is necessary to use the motor connection kit for units with connections on the right-hand side.

Accessories
Standard accessories supplied separately and available in stock:
- KCMDX - Motor connection cables for unit with couplings on the right
- KV3VBX - 3-way valve kit with electrothermal head and balancing for 2-pipe system
- KV3B4X - 3-way valve kit with electrothermal head and balancing for 4-pipe system
- KPDX - Plinth kit
- BACKVX - Painted rear panel for cased version
- FXPPX - Floor fixing bracket kit
- PMSTX - Telescopic upper supply plenum kit
- KASPX - Return plenum kit
- PR90MX - 90° supply plenum kit
- GMX - Supply grill
- GRA1X - Return air grill
- CSFIX - Formwork for uncased installation
- PCIX - Uncased closure panel
- HID-T6X - Electronic room control with LCD screen
- HID-E2X - Remote control with E/I +3V +on/off for wall installation (available only with options: SC3V)
- HID-E3X - Plurifunctional remote control for wall installation (available only with options: SC3V)

Unit configuration

ELFORoom2	003.0	(1) CC2	(2) SX	(3) OUTVOT	(4) MOD	(5)
	003.0	CC2	SX	OUTVOT	MOD	-
	005.0	CC4	DX	OUTVL	IN-MOD	UVPCO
	011.0			INVOT	SC3V	
	015.0			OUTRAD	SC010	
	017.0				CSEMP	

(1) Installation type
CC2 - 2-pipe
CC4 - 4-pipe

(2) Hydraulic connections
DX - Right side fittings
SX - Left side fittings

(3) Type of installation
OUTVL - With casing for vertical installation
OUTVOT - With casing for vertical or horizontal installation
OUTRAD - With casing for vertical installation
INVOT - Uncased for vertical or horizontal installation

(4) Control electronics
IN-MOD - Modulating + RS485 without on board thermostat
CSEMP - Four speed thermostat on board
MOD - Modulating + RS485 without on board thermostat
SC3V - Three speed without on board thermostat
SC010 - 0-10V without on board thermostat

(5) Air purification
Standard - Standard filter
UVPCO - UV germicidal lamp with PCO photocatalytic technology (only available for 2-pipe versions)

Configuration compatibility tables

CC2	IN-MOD	CSEMP	MOD	SC3V	SC010
OUTRAD	✓				
OUTVL	✓	✓			
OUTVOT			✓	✓	✓
INVOT			✓	✓	✓

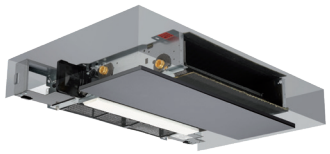
CC4	IN-MOD	MOD	SC3V
OUTVL	✓		
OUTVOT		✓	✓
INVOT		✓	✓

OUTVL/OUTVOT/ INVOT/OUTRAD

OUTVL / OUTVOT / OUTRAD

INVOT

OUTVOT



INVOT

OUTRAD

With casing for vertical installation, with radiant plate

The OUTRAD configuration has an additional exchanger that is activated in heating mode when the main fan is switched off. In the heating phase the unit heats the room by traditional convection and fan effect and then maintains comfort using the innovative radiant effect. Thanks to this exclusive operating principle, it maintains the comfort temperature without the support of the main fan and therefore operates in complete silence.

Operating principle

1. Gradual switch-off of the fan: its operation is modulated as the room temperature approaches the set point
2. Activation of micro-fans with very low energy consumption and complete silence. These send hot air to the additional radiant exchanger, effectively maintaining the room temperature. The micro-fans are axial and vary in number according to the cabinet; they only start to operate when the water temperature rises above 35°C.

This function can also be activated individually, for instance during night-time operation, when a reduced output with maximum silence is required.

⚠ This function can also be activated individually, for instance during night-time operation, when a reduced output with maximum silence is required.
⚠ In summer mode, the air flow generated by the micro-fans is interrupted to prevent any dew from forming on the front of the terminal.

IN-MOD

Modulating + RS485 without on board thermostat

The built-in thermostat has an LCD display and a backlit keypad with 8 touch buttons.
The configuration features the following functions:

- ON-OFF
- Control of the minimum, maximum, automatic and reduced ventilation speed for night-time operation
- Summer and winter mode setting
- Solenoid valve control for 2- and 4-pipe systems (with 230/1~/50 power supply)
- Room temperature detected through a probe on the air return
- Water temperature detected with a probe on the entering water pipe: (CC4 versions are equipped with two probes)
- Fan switch-off if the intake grille with the safety microswitch is removed
- Remote control via digital on-off contact, which can manage a max current of 1A and a max voltage of 240V
- Two potential-free contacts for calling an external device (e.g. heat pump, boiler, circulator), which can manage a max current of 1A and a max voltage of 240V
- Buzzer / brightness control
- Night-time mode operation with the heating mode on without ventilation for natural convection (can be activated via dip-switch only for OUTRAD versions)

⚠ When the ventilated radiant plate option is chosen, the heating mode is set in night-time operation by default, with no main ventilation and only the micro-fans in operation.

In AUTO mode the fan constantly switches between maximum and minimum speed according to a logic based on the difference between the room temperature and the set point temperature.
In night-time mode the fan speed is set to the minimum speed and the set point is reduced by 1°C after 1 hour and 2°C after 2 hours.
The electronics include the RS485 Modbus serial port for the connection to Control4 NRG or supervisors with a Modbus.

⚠ The connection with the Modbus supervisor will exclude the operation of the on-board thermostat

CSEMP

Four speed thermostat on board

The built-in thermostat has an LCD display and a backlit keypad with 8 buttons, for the following functions:

- ON-OFF
- Control of the minimum, maximum, automatic and reduced ventilation speed for night-time operation
- Summer and winter mode setting
- Solenoid valve control for 2-pipe systems (with 230/1~/50 power supply)

⚠ The control does not have an RS485 Modbus serial board

Configuration options

MOD

Modulating + RS485 without on board thermostat
The unit is set up for the connection of a Modbus remote thermostat, which is necessary for horizontal and uncased versions that cannot have a built-in thermostat. Compatible with HID-T6 thermostat
The units have a built-in circuit board with an LED for signalling operation status or alarm.
The electronics include an RS485 serial port for the connection to Control4 NRG or supervisors with Modbus protocol, so that mini-networks can be created.

Termostato a muro, HID-T6

SC3V

Three speed without on board thermostat
The circuit board, without a built-in interface, can be connected to electromechanical 3- or 4-speed thermostats.
- 3 digital inputs to select the fan speed (maximum, medium, minimum)
- Optional digital input for selecting the night speed
- input with a potential-free contact for switching between summer-winter mode, which can manage a max current of 1A and a max voltage of 240V
- input with minimum temperature probe (standard supplied and to be connected on site)
- Solenoid valve control for 2- and 4-pipe systems (with 230/1~/50 power supply)
- Fan switch-off if the intake grille with the safety microswitch is removed.

This board can be combined with HID-E2 and HID-E3 electromechanical thermostats.

⚠ The board does not have an RS485 Modbus serial port.
⚠ A blank panel identical to the one mounted on the top of the valve compartment will be provided to cover the housing where in the other versions there is the on board interface.

SC010

0-10V without on board thermostat
The circuit board, without a built-in interface, can be connected to 0-10V thermostats
The board features the following functions:
- 0-10V fan control input impedance 25 kΩ
- solenoid valve control for 2-pipe systems (with 230/1~/50 power supply)
- fan switch-off if the intake grille with the safety microswitch is removed.

This board can be combined with 0-10V thermostats.

⚠ The board does not have an RS485 Modbus serial port.
⚠ A blank panel identical to the one mounted on the top of the valve compartment will be provided to cover the housing where in the other versions there is the on board interface.

UVPCO

UV germicidal lamp with PCO photocatalytic technology
Device that combines UV lamp action and a catalyst structure (TiO2) to sanitize the air flow thanks to the photocatalytic reaction that happens inside.
It is particularly suitable for hospitals or medical surgeries that require thorough cleaning and sterilisation of the air, along with the filtering action usually conducted by the honeycomb filters installed on all the units.
The KIT is built-in, it has a support for installing the lamp and a pre-wired power supply unit for electrical connection.

CC2/CC4

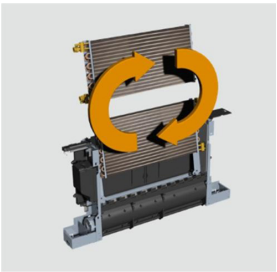
Installation type
ELFORoom^2 is available with a 2-pipe system (CC2 version) or with an auxiliary coil for a 4-pipe system (CC4 version).

⚠ The CC4 version for 4-pipe systems has different dimensions to the CC2 units and is not compatible with the OUTRAD version with radiant plate

DX/SX

Hydraulic connections
ELFORoom^2 can be configured with left side fittings (LH version) or with right side fittings (RH version).

⚠ The coil can be rotated on site: use the KCMDX kit for rotating it on site from left to right.
⚠ The OUTRAD option is not compatible with the DX version.



KCMDX **Motor connection cables for unit with couplings on the right**

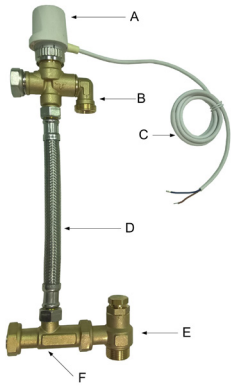
(For rotating connections on site)
If the coil has to be rotated from left to right on site, a longer cable (KCMDX accessory) must be used to connect the motor to the electrical panel.

⚠ Accessory available for the LH version only

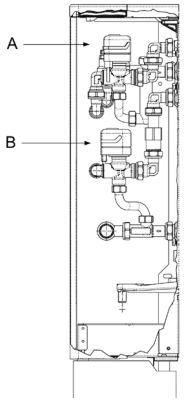
KV3VBX **3-way valve kit with electrothermal head and balancing for 2-pipe system**
KV3B4X **3-way valve kit with electrothermal head and balancing for 4-pipe system**

3-way ON-OFF valve kit for CC2 versions (KV3VBX) or CC4 version (KV3B4X) fitted with a thermoelectric head (230/1~/50 power supply), a bypass and a reducing valve.
The valve automatically isolates the unit from the system, the reducing valve balances the system pressure drops, the bypass keeps the system balanced even when the valves are closed.

⚠ The kit is compatible with both LH and RH versions

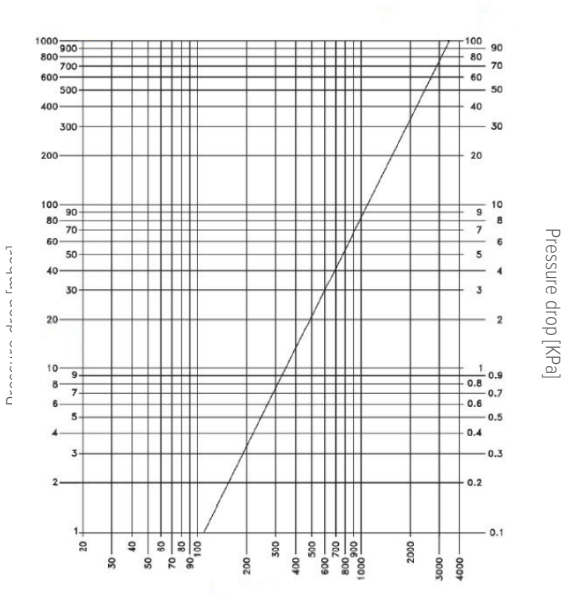


A. Thermo-electric head
B. 3-way valve
C. Connection cables to the control board
D. Flexible pipe
E. Reducing valve
F. Brass outlet fitting



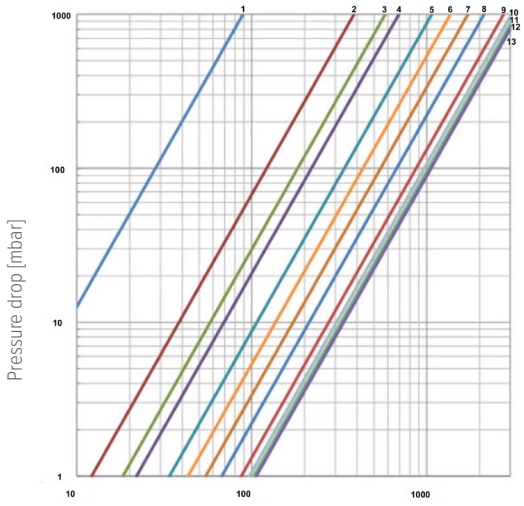
A. Valve in heating mode
B. Valve in cooling mode

3-way valve kit pressure drops



⚠ valve flow factor Kvs=3,5.
⚠ The pressure drops of the shut-off valve are indicated with the thermo-electric head fully open.

Reducing valve pressure drops



⚠ the reducing valve pressure drops as a function of the number of rotations (REG)

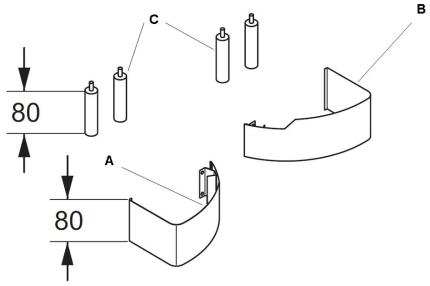
#	1	2	3	4	5	6	7	8	9	10	11	12	13
REG	1,25	1,5	1,75	2	2,25	2,5	2,75	3	3,5	4	4,5	5	5,5
Kv	0,09	0,38	0,58	0,69	1,07	1,37	1,72	2,13	2,75	3,06	3,23	3,31	3,35

Accessories separately supplied

KPDX **Plinth kit**

The kit consists of two feet and 4 screw cylinder that is screwed into the underside of the terminal frame. This accessory allows you to place the cabinet on the ground in all wall installations and is available in white color RAL 9003.

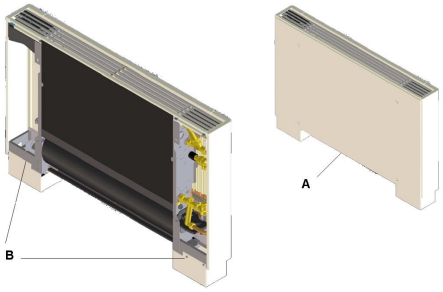
A. RAL 9003 RH foot ext. cov. assembly
B. RAL 9003 LH foot ext. cov. assembly
C. Round bar for aluminium foot



BACKVX **Painted rear panel for cased version**

The accessory painted rear panel is available in RAL 9003 white and is used to cover the rear of the unit when it is positioned in front of a shop window or in any case when the rear surface is exposed.

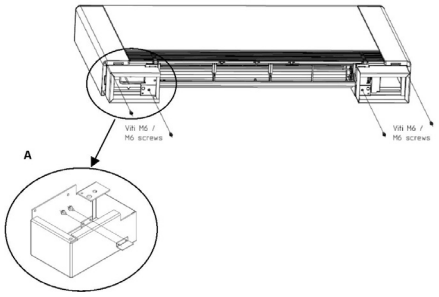
A. Rear closing panel
B. Joints to secure the panel and fixing holes



FXPPX **Floor fixing bracket kit**

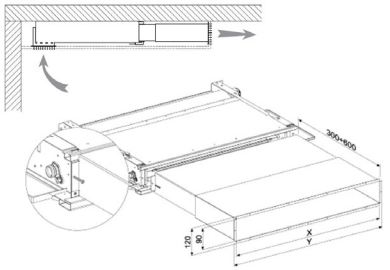
The KIT is used to secure the unit to the floor in the event of installations in which it is exposed in a shop window or in any case in all applications where it cannot be secured to a wall.
It is designed to be connected to the rear closing panel KIT, as it allows to conceal hydraulic pipes and the required electrical connections.

A. Floor fixing supports (RAL 9003)



PMSTX **Telescopic upper supply plenum kit**

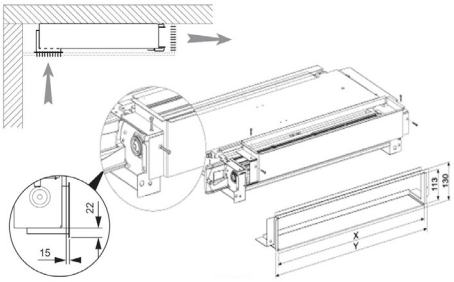
The supply plenum KIT is used in cased versions to ducte the air from the unit and to be connected with the supply grille Kit.
It is made up of a galvanized steel structure that is fixed to the supporting structure of the cabinet using screws and allows you to extend the plenum maximum up to 600 mm from the outlet of the cabinet because the tangential fan has an available pressure to overcome pressure drops of 600 mm for each duct.



SIZE		003.0	005.0	011.0	015.0	017.0
x	mm	305	505	705	905	1105
y	mm	335	535	735	935	1135

KASPX **Return plenum kit**

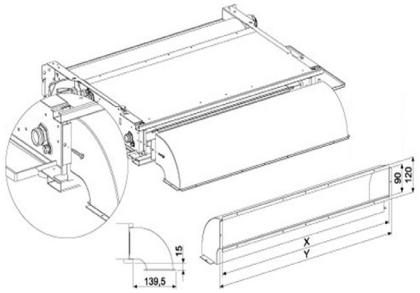
The intake KIT is used in built-in versions and allows to channel the air taken from the room.
It consists of an angular galvanised sheet metal profile that is secured to the unit with screws near the tangential fan and is already designed to be connected to the intake grids KIT.
The KIT allows to collect the air from the front of the unit by protruding by 15 mm in relation to the unit's outline.



SIZE		003.0	005.0	011.0	015.0	017.0
x	mm	305	505	705	905	1105
y	mm	335	535	735	935	1135

PR90MX **90° supply plenum kit**

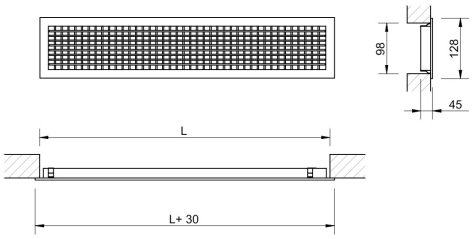
The 90° supply plenum KIT is used in built-in versions to channel the air from the unit to the supply grille in false ceiling installations.
It is secured to the unit with screws on the designated holes on the profile of the unit's supply outlet and is already designed for the connection to the supply grilles KIT.
The accessory takes up 15 mm in relation to the outline of the unit.



SIZE		003.0	005.0	011.0	015.0	017.0
x	mm	305	505	705	905	1105
y	mm	335	535	735	935	1135

GMX **Supply grill**

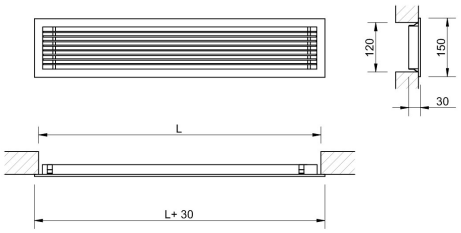
Supply grille KIT with double airfoil profile for wall installation and used in versions with a built-in unit.
The option is available in aluminium to ensure full integration for wall installation and adjustable fins to ensure better air distribution in the room. They are fitted with all the holes for the connection to the various telescopic supply plenum KITS (PMSTX) and 90°C plenum kits (PR90MX).



SIZE		003.0	005.0	011.0	015.0	017.0
Length (L)	mm	304	504	704	904	1104

GRA1X **Return air grill**

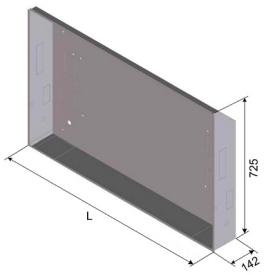
The supply grille KIT with double wing profile for wall installation and used in versions with a built-in unit.
The accessory is available in aluminium to ensure full integration for wall installation and adjustable fins to provide a better distribution pf the air in the room. They are fitted with all the holes for the connection to the various telescopic supply plenum KITS (PMSTX) and 90°C plenum kits (PR90MX).



SIZE		003.0	005.0	011.0	015.0	017.0
Length (L)	mm	304	504	704	904	1104

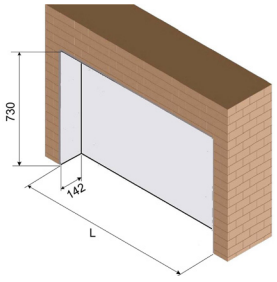
CSFIX **Formwork for uncased installation**

The formwork KIT is used for built-in wall installations and allows to perform holes on the units on site.
The upper part of the formwork is insulated to prevent any condense from forming and the entire panel is already pre-cut and holes have been made to make it easier to position and pass the water pipes and power supply cables.



SIZE		003.0	005.0	011.0	015.0	017.0
Length (L)	mm	715	915	1115	1315	1515

Drill a hole with minimum height of 730 mm, depth of 142 mm and L length (see tables) in the wall



SIZE		003.0	005.0	011.0	015.0	017.0
Length (L)	mm	740	940	1140	1340	1540

Accessories separately supplied

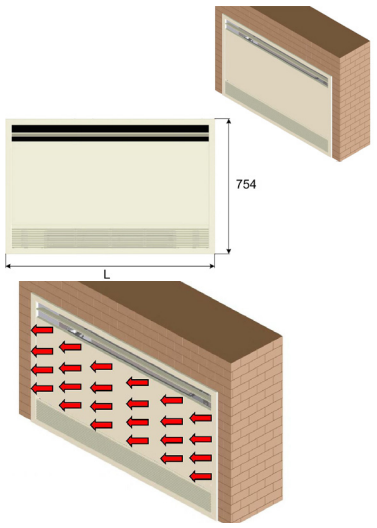
PCIX

Uncased closure panel

The built-in closing panel is used to complete the installation of the “Formwork kit” (CSFIX).
It has intake and supply grilles to distribute the ambient air and is made with RAL 9003 white painted galvanised sheet metal.
The air filters are located in the internal unit and can be inspected by opening the intake grille of the front covering panel.

SIZE		003.0	005.0	011.0	015.0	017.0
Height	mm	754	754	754	754	754
Length (L)	mm	772	972	1172	1372	1572
Depth	mm	29	29	29	29	29

⚠ If you choose the RAD ventilated radiant plate option for INVOT built-in units, you must choose both the CSFIX formwork and the PCIX closing panel



HID-E2X

Remote control with E/I +3V + ON/OFF for wall installation (available only with options: SC3V)

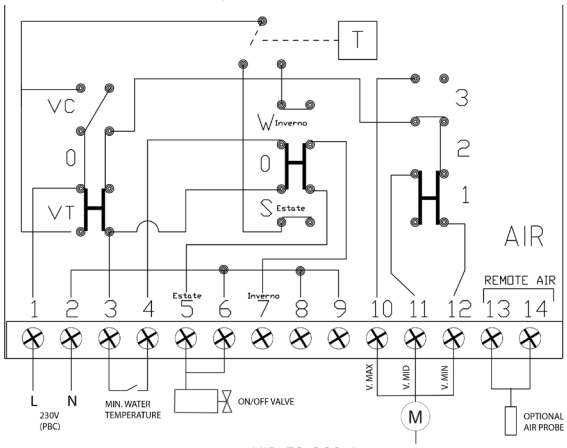
HID-E2 electro mechanical room thermostat for wall installation.
It allows:

- setting the desired temperature (10-30°C)
- selection of the 3 speeds (minimum - medium - maximum)
- ON-OFF
- manual Summer / Winter change
- continuous or thermostat-based ventilation

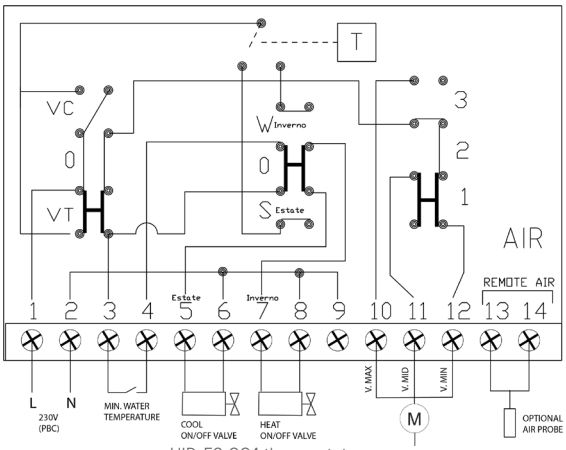
It can be connected to the remote air probe
The hot water min. temperature Clickson can be connected.

Dimensions: 184 x 82 x 27 mm

⚠ Available only with SC3V version



HID-E2 CC2 thermostat



HID-E2 CC4 thermostat

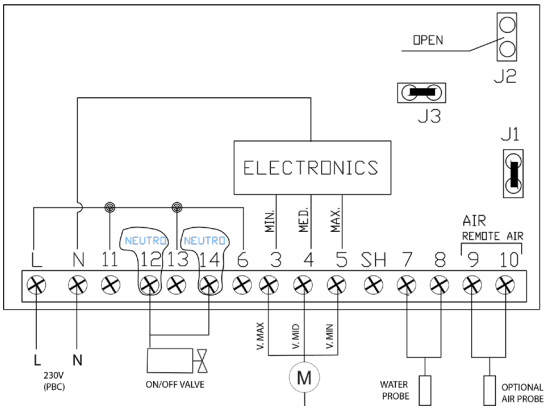
HID-E3X **Plurifunctional remote control for wall installation (available only with options: SC3V)**

HID-E3 electro mechanical room thermostat for wall installation

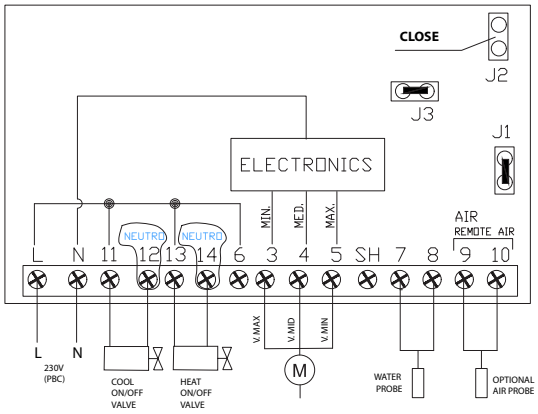
It allows:

- automatic fan speed adjustment (minimum - medium - maximum)
- silent operation (minimum fan speed)
- ON-OFF
- ambient temperature adjustment via the control knob: the knob's central position corresponds to the comfort condition (20°C in heating mode, 24°C in cooling mode). The temperature can be changed by +/- 5°C in relation to the comfort condition by turning the knob
- automatic selection of the Summer/Winter season: the heating or cooling mode is selected automatically by detecting the water temperature supplied to the fan-coil (water temperature below 17°C = operation in cooling mode, water temperature above 21°C = operation in heating mode)
- Hot Start function: in heating mode the fan does not start until the thermal coil is not hot enough
- destratification cycle
- dirty filter warning
- minimum water temperature probe (supplied separately)

Dimensions: 184 x 8 2x 27 mm



HID-E3 CC2 thermostat



HID-E3 CC4 thermostat

HID-T6X **Electronic room control with LCD screen**

Electronic room thermostat for wall installation, with LCD display and backlit keyboard with 8 touch-type keys.

The thermostat shares most of functionality with the MOD version:

- ON-OFF
- Minimum, maximum automatic and reduced fan speed adjustment for night operation
- Summer and winter mode setting
- Solenoid valve control for 2 and 4 pipe systems (with 230/1~/50 power supply)
- Ambient temperature measurement by means of a probe on the air intake
- Water temperature detection with probe on the inlet water pipe: minimum inlet water temperature control in heating and maximum inlet water temperature in cooling

⚠ In 4-pipe systems, an additional probe is required

- Remote control by means of digital ON-OFF contact, which allows to manage a maximum current of 1A and a maximum voltage of 240V.
- Two potential-free contact for calling an external device (eg: heat pump, boiler, circulator), which allow to manage a maximum current of 1A and a maximum voltage of 240V.
- Buzzer / brightness adjustment

The additional functions available are:

- Possibility to manage groups up to 30 units

⚠ Available only with MOD version

Functions and regulation available

Functions and regulation available with IN-MOD and CSEMP versions or HID-T6X thermostat:

AUTO **Auto:** the AUTO function automatically adjusts the ventilation speed in relation to the heat demand. The unit is programmed by the manufacturer with the AUTO mode enabled.

Night-time mode: the night-time function limits ventilation to the minimum speed and the set point is reduced by 1°C and a further degree 2 hours after switch-on.

Maximum speed: this control forces the fan to operate at maximum speed.

Minimum speed: this control forces the fan to operate at minimum speed. If the water temperature is above 20°C in summer and below 30°C in winter, the fan is not activated and the summer/winter symbol will flash on the thermostat. If the reference temperatures are not reached within 10 minutes from when the terminal is switched on, the terminal is automatically set to stand-by. The unit restarts automatically after 45 minutes from shutdown or manually by switching from summer to winter mode or vice versa.

ON/OFF button: pressing and holding it for 5 seconds switches the unit on and off, pressing it once with a single click selects the various options in sequence from left to right.

Summer/winter mode selection button: the function is factory set to manual. Pressing and holding the button for 10 seconds until the summer/winter symbol switches on simultaneously sets summer/winter mode. Carry out the procedure in reverse order to go back to the manual control until the symbol switches off.

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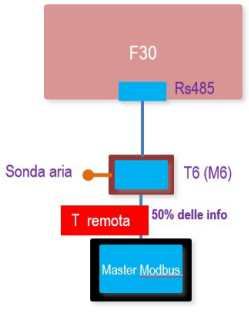
Temperature control buttons: the set point can be selected within a range from 16°C to 28°C.

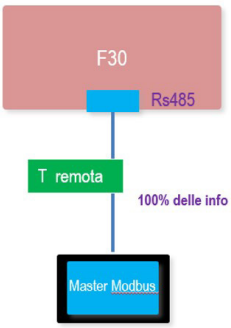
Management via Modbus

Management via Modbus is provided by the RS485 port on the unit's board and can be realised in two different ways:

1. MOD with HID-T6: the connection is made directly between the RS485 port on the machine board and the RS485 port on the thermostat.



2. MOD without thermostat: the connection is made directly between the RS485 port on the unit board and the Control4 NRG or the corresponding supervisor with Modbus protocol.



ELFORoom² - CC2

SIZE		003.0	005.0	011.0	015.0	017.0
High speed						
Air flow	m³/h	146	294	438	567	663
▶ Cooling capacity	kW	0,91	2,12	2,81	3,30	3,71
▶ Sensible capacity	kW	0,71	1,54	2,11	2,65	2,9
▶ Water flow rate	l/h	157	365	483	568	638
▶ Water pressure drops	kPa	12,1	8,2	17,1	18,0	21,2
▶ Heating capacity	kW	1,02	2,21	3,02	3,81	4,32
▶ Water flow rate	l/h	175	380	518	654	743
▶ Water pressure drops	kPa	9,10	9,20	19,10	21,20	23,30
Nominal power consumption	W	11	19	20	29	33
Medium speed						
Air flow	m³/h	91	210	318	410	479
▶ Cooling capacity	kW	0,73	1,36	2,08	2,39	2,57
▶ Sensible capacity	kW	0,51	1,04	1,51	1,84	1,98
▶ Water flow rate	l/h	130	230	360	410	440
▶ Water pressure drops	kPa	10.2	4.3	9.9	8.8	11,1
▶ Heating capacity	kW	0,69	1,53	2,16	2,59	2,82
▶ Water flow rate	l/h	140	260	370	440	490
▶ Water pressure drops	kPa	6,80	4,30	9,30	8,9	7,00
Nominal power consumption	W	7	8	11	11	12
Low speed						
Air flow	m³/h	49	124	194	302	364
▶ Cooling capacity	kW	0,43	0,75	1,15	1,32	1,36
▶ Sensible capacity	kW	0,29	0,59	0,83	1,02	1,05
▶ Water flow rate	l/h	74	130	200	230	230
▶ Water pressure drops	kPa	5,7	1,9	2,7	2,5	3,4
▶ Heating capacity	kW	0,37	0,82	1,2	1,47	1,49
▶ Water flow rate	l/h	100	140	210	250	260
▶ Water pressure drops	kPa	2,6	1,5	2,7	3,0	3,0
Nominal power consumption	W	5	4	6	5	5

The Product is compliant with the Erp (Energy Related Products) European Directive. It includes the Commission delegated Regulation (EU) No 2016/2281, also known as Ecodesign Lot21. Air flow with free outlet (0 Pa static pressure)
Cooling: Exchanger inlet water 7°C (temperature differential 5°C) - Ambient air at 27°C D.B./19°C W.B.
Heating: Exchanger inlet water 45°C (temperature differential 5°C) - Ambient air at 20°C

General technical data

ELFORoom² - CC4

SIZE		003.0	005.0	011.0	015.0	017.0
High speed						
Air flow	m³/h	132	260	370	476	542
▶ Cooling capacity	kW	0,71	1,42	2,01	2,43	2.92
▶ Sensible capacity	kW	0,55	1,11	1,50	1,92	2,26
▶ Water flow rate	l/h	120	250	350	430	510
▶ Water pressure drops	kPa	8	7	14	11	16
▶ Heating capacity	kW	0,51	1,10	1,52	1,81	2,50
▶ Water flow rate	l/h	44	95	131	190	215
▶ Water pressure drops	kPa	3	5,1	7,2	5,2	6,1
Nominal power consumption	W	11	19	20	29	33
Medium speed						
Air flow	m³/h	91	207	291	367	416
▶ Cooling capacity	kW	0,58	1,09	1,48	1,74	2,12
▶ Sensible capacity	kW	0,43	0,83	1,08	1,37	1,63
▶ Water flow rate	l/h	110	190	260	310	370
▶ Water pressure drops	kPa	6,70	5	9,30	7	6,20
▶ Heating capacity	kW	0,43	0,94	1,31	1,57	2,08
▶ Water flow rate	l/h	37	81	113	165	179
▶ Water pressure drops	kPa	2,2	2,7	5,6	4	2,9
Nominal power consumption	W	6	8	9	10	12
Low speed						
Air flow	m³/h	46	124	194	247	262
▶ Cooling capacity	kW	0,30	0,61	0,76	0,95	1,16
▶ Sensible capacity	kW	0,23	0,45	0,59	0,79	0,90
▶ Water flow rate	l/h	50	110	140	170	210
▶ Water pressure drops	kPa	3,80	3,40	4,60	3,80	3,40
▶ Heating capacity	kW	0,3	0,62	0,97	1,09	1,43
▶ Water flow rate	l/h	26	53	83	114	123
▶ Water pressure drops	kPa	2,1	2,50	5,5	2,70	2,6
Nominal power consumption	W	4	4	4	4	5

The Product is compliant with the Erp (Energy Related Products) European Directive. It includes the Commission delegated Regulation (EU) No 2016/2281, also known as Ecodesign Lot21. Air flow with free outlet (0 Pa static pressure)
Cooling: Exchanger inlet water 7°C (temperature differential 5°C) - Ambient air at 27°C D.B./19°C W.B.
Heating: Exchanger inlet water 65°C (temperature differential 10°C) - Ambient air at 20°C

Electrical data

Supply voltage 230/1~/50

SIZE		003.0	005.0	011.0	015.0	017.0
F.L.A. - Full load current at max admissible conditions						
F.L.A. - Total	A	0.11	0.16	0.18	0.26	0.28
F.L.I. - Full load power input at max admissible conditions						
F.L.I. - Total	kW	0.012	0.02	0.022	0.03	0.033

Power supply: 230/1~/50 Hz. Voltage variation: max +/- 10

Sound levels

Low speed

SIZE	Sound power level [dB]										
	Octave band [Hz]										
	100	125	160	200	250	315	400	500	630	800	1000
003.0	11,9	10,4	15,8	22,9	28,3	25,4	24,2	25,1	26,4	25,3	23,5
005.0	15,2	13,1	20,5	25,1	27,9	26,7	26,8	27,2	28,4	27,8	26,4
011.0	13,0	16,0	17,6	23,4	26,5	26,5	27,0	28,9	29,4	29,1	27,4
015.0	12,2	15,6	18,7	22,9	24,7	26,6	27,9	31,2	29,9	32,5	28,2
017.0	14,4	16,8	20,1	24,2	25,0	26,7	28,0	30,2	29,9	29,2	27,3

SIZE	Sound power level [dB]										Sound power level	Sound pressure level
	Octave band [Hz]											
	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000	dB[A]	dB[A]
003.0	11,9	10,4	15,8	22,9	28,3	25,4	24,2	25,1	26,4	25,3	33	24
005.0	15,2	13,1	20,5	25,1	27,9	26,7	26,8	27,2	28,4	27,8	35	25
011.0	13,0	16,0	17,6	23,4	26,5	26,5	27,0	28,9	29,4	29,1	36	26
015.0	12,2	15,6	18,7	22,9	24,7	26,6	27,9	31,2	29,9	32,5	36	26
017.0	14,4	16,8	20,1	24,2	25,0	26,7	28,0	30,2	29,9	29,2	37	28

Medium speed

SIZE	Sound power level [dB]										
	Octave band [Hz]										
	100	125	160	200	250	315	400	500	630	800	1000
003.0	17,5	18,6	21,5	24,9	29,8	37,3	32,8	32,7	35,4	35,9	34,2
005.0	17,3	20,9	22,9	27,4	30,3	35,8	33,1	33,5	36,7	37,7	36,1
011.0	20,7	23,8	26,3	30,9	32,0	36,0	36,4	37,2	40,6	41,4	39,7
015.0	18,2	23,2	24,8	29,4	30,2	34,0	34,4	36,3	42,6	40,0	38,6
017.0	21,6	24,1	25,8	30,0	31,6	35,2	35,0	36,9	41,8	40,3	38,8

SIZE	Sound power level [dB]										Sound power level	Sound pressure level
	Octave band [Hz]											
	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000	dB[A]	dB[A]
003.0	31,0	29,5	28,9	24,9	22,1	17,5	12,3	8,7	5,0	2,1	44	33
005.0	33,3	31,8	31,1	27,4	24,5	20,1	15,7	10,5	5,4	2,1	45	34
011.0	37,7	37,5	37,6	33,9	31,3	26,9	22,1	16,6	10,6	4,1	46	34
015.0	36,6	36,0	35,6	31,9	29,0	24,6	20,0	15,1	9,2	2,1	47	35
017.0	36,5	35,8	35,0	31,2	28,6	24,2	19,0	15,9	7,7	2,1	48	38

The values have been detected in a closed ambient with a volume of 100 m^3 and a reverberation time of 0.5 seconds.
The noise levels refer to units at full load under nominal test conditions.
The medium spressure level are referred to unit operating at 1 m from the external unit surface, with fairing, fitted to a wall.
Installing the unit at the different conditions from the nominal ones (e.g. near walls or obstacles generally)The sound levels may undergo significant variations.

Sound levels

High speed

SIZE	Sound power level [dB]										
	Octave band [Hz]										
	100	125	160	200	250	315	400	500	630	800	1000
003.0	24,0	26,1	28,5	32,2	34,1	38,6	42,3	41,8	42,4	44,5	43,9
005.0	25,7	28,8	30,7	34,2	37,1	39,6	41,7	41,4	43,2	45,7	45,5
011.0	27,3	30,8	33,2	35,2	37,8	40,8	41,6	42,7	44,3	47,3	46,8
015.0	30,1	30,8	33,9	36,0	38,2	41,4	42,0	43,0	45,2	50,6	49,9
017.0	30,0	31,5	35,1	36,9	39,5	42,1	42,6	43,9	46,0	50,7	50,0

SIZE	Sound power level [dB]										Sound power level	Sound pressure level
	Octave band [Hz]											
	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000	dB[A]	dB[A]
003.0	41,2	40,3	40,6	37,4	35,8	32,1	28,0	22,7	16,0	7,8	51	41
005.0	43,1	42,6	42,4	39,7	38,0	34,7	30,8	25,3	18,6	10,9	53	42
011.0	43,8	43,6	43,6	40,7	38,7	35,4	31,5	26,3	19,7	12,0	54	44
015.0	45,7	45,4	45,5	42,5	40,4	37,4	33,9	29,4	24,3	20,4	55	46
017.0	46,5	46,3	46,2	43,4	41,5	38,3	34,5	30,0	24,5	20,1	57	47

The values have been detected in a closed ambient with a volume of 100 m^3 and a reverberation time of 0.5 seconds.
The noise levels refer to units at full load under nominal test conditions.
The medium spressure level are referred to unit operating at 1 m from the external unit surface, with fairing, fitted to a wall.
Installing the unit at the different conditions from the nominal ones (e.g. near walls or obstacles generally)The sound levels may undergo significant variations.

Operating range

Operating range (Heating)

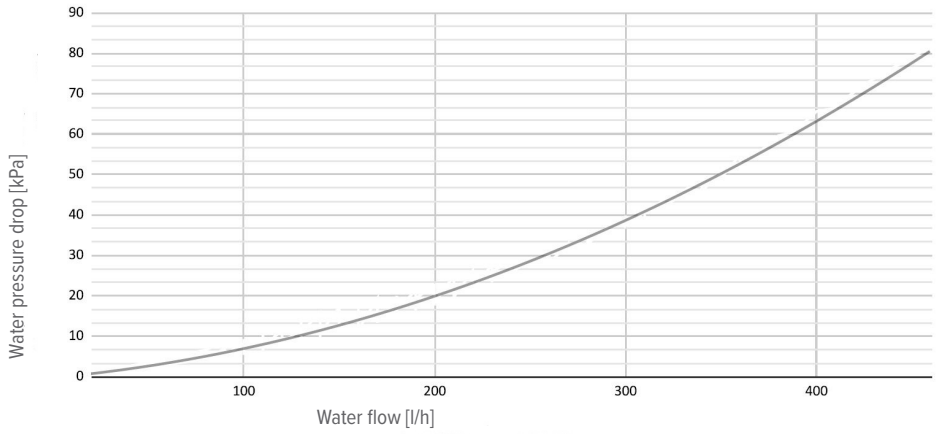
SIZE		003.0	005.0	011.0	015.0	017.0
Internal exchanger						
Max water inlet temperature	°C	80	80	80	80	80
Min. water inlet temperature	°C	30	30	30	30	30
Min. entering air temperature (D.B.)	°C	5	5	5	5	5
Maximum water side pressure	bar	10	10	10	10	10

Operating range (Cooling)

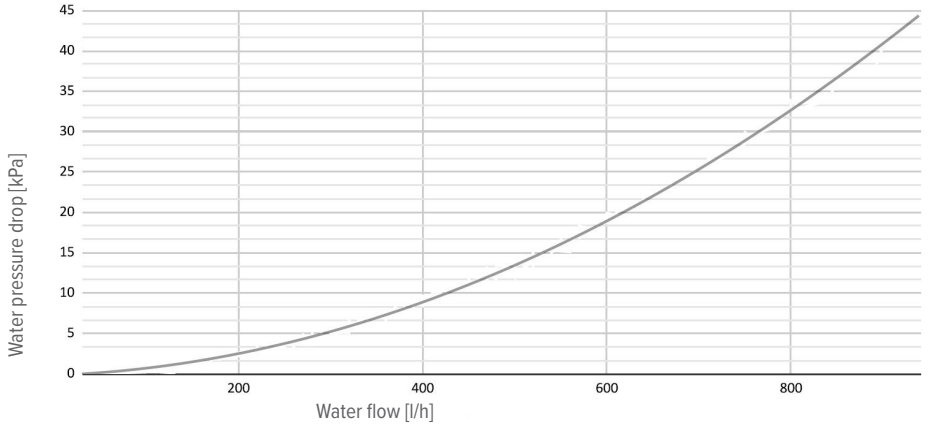
SIZE		003.0	005.0	011.0	015.0	017.0
Internal exchanger						
Max water inlet temperature	°C	20	20	20	20	20
Min. water inlet temperature	°C	4	4	4	4	4
Max. entering air temperature (W.B.)	°C	32	32	32	32	32
Min. entering air temperature (W.B.)	°C	5	5	5	5	5
Maximum water side pressure	bar	10	10	10	10	10

Water side pressure drops - Cooling

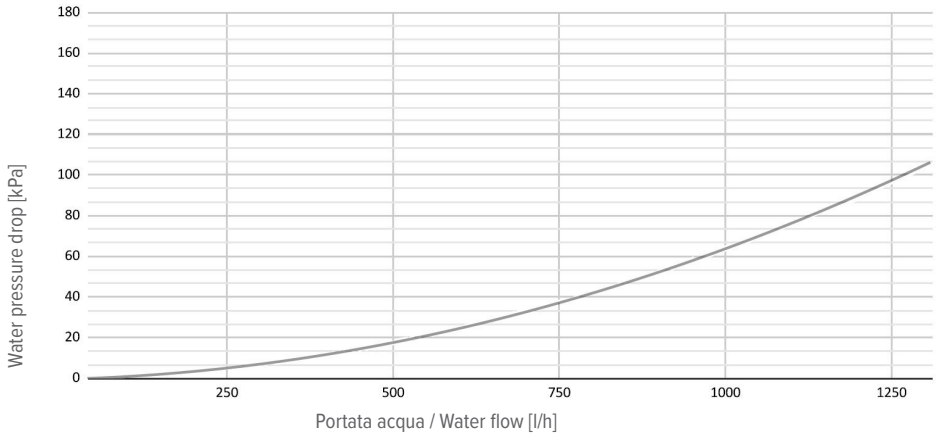
ELFORoom² - 003.0



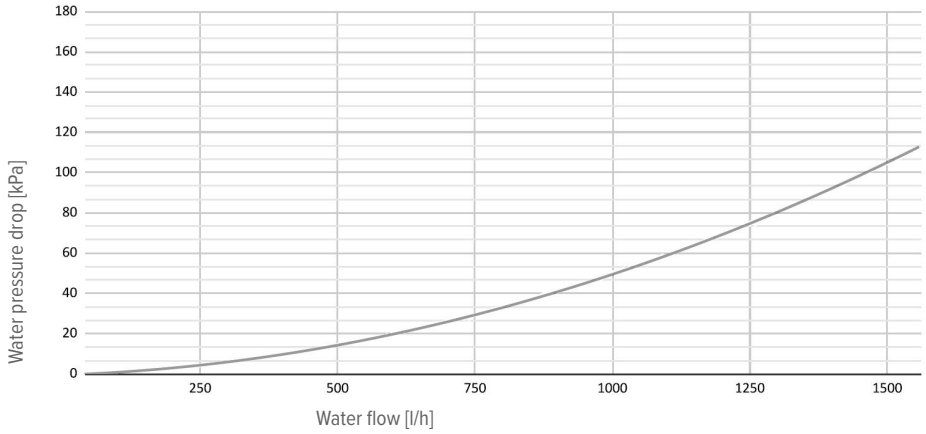
ELFORoom² - 005.0



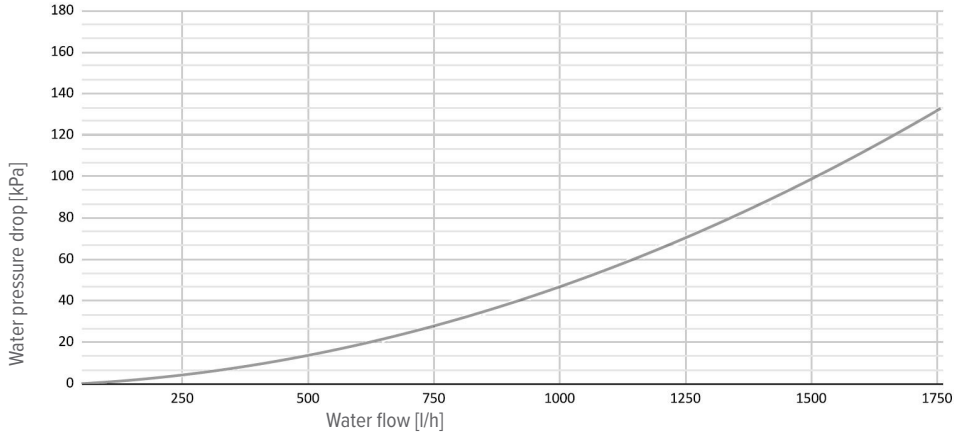
ELFORoom² - 011.0



ELFORoom² - 015.0

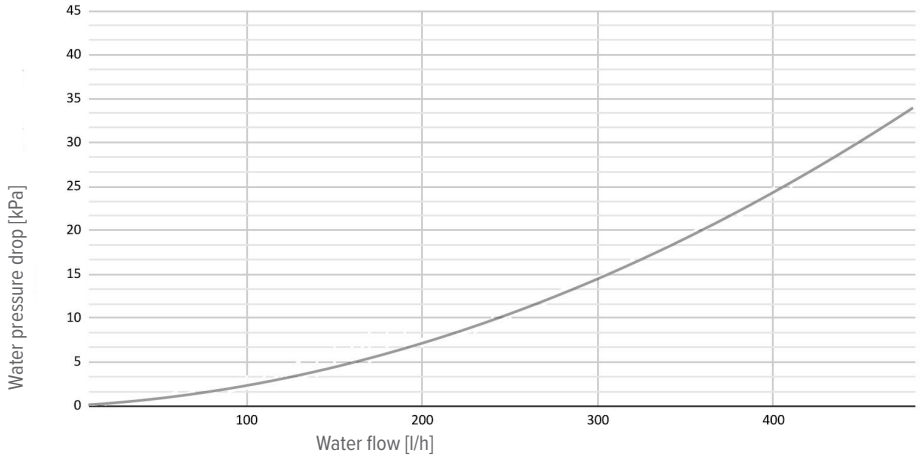


ELFORoom² - 017.0

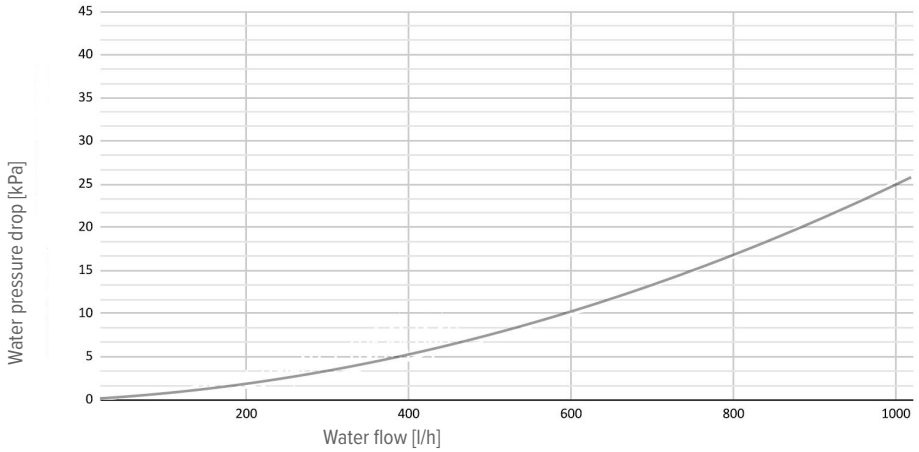


Water side pressure drops - Heating

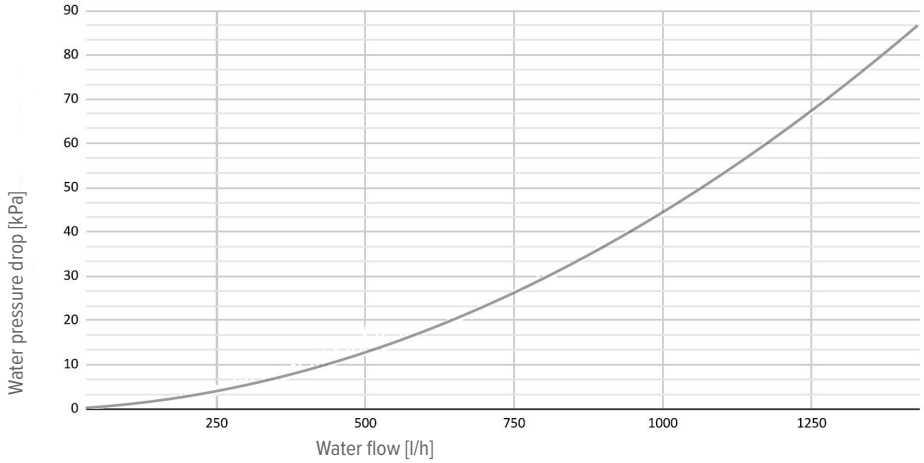
ELFORoom² - 003.0



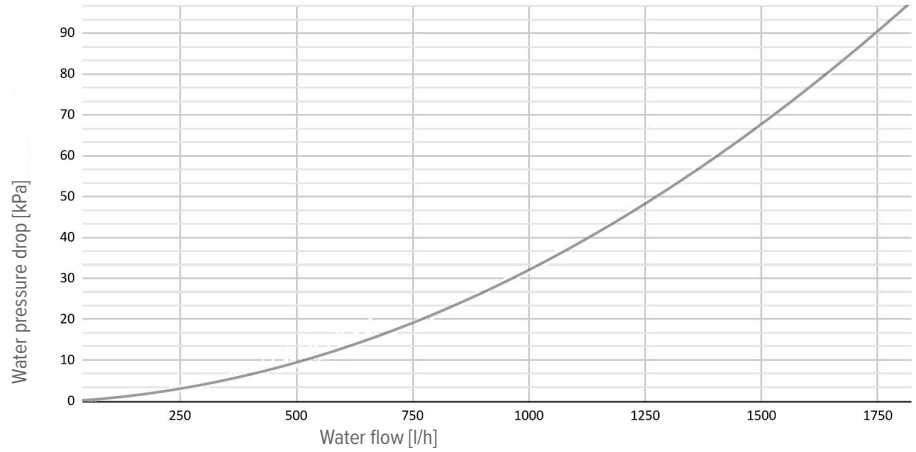
ELFORoom² - 005.0



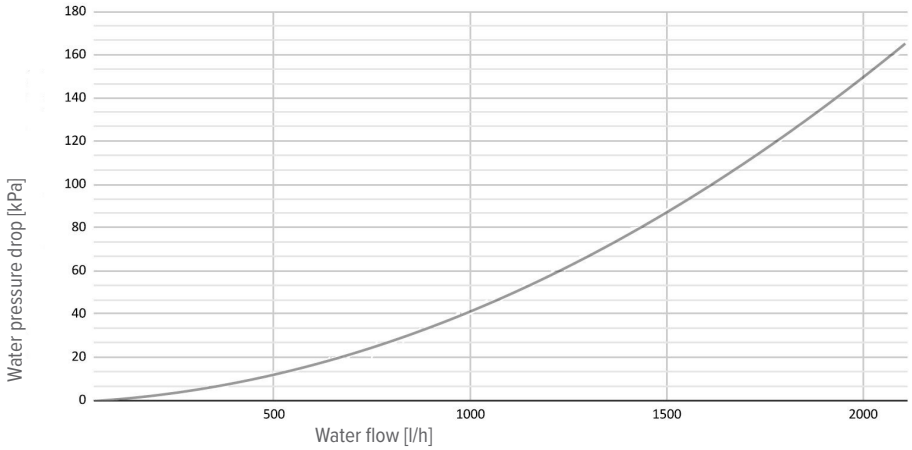
ELFORoom² - 011.0



ELFORoom² - 015.0



ELFORoom² - 017.0



Static heating performance (OUTRAD configuration)

SIZE	HEATING	
	Twi	Pt
	[°C]	[kW]
003.0	35	0,13
	40	0,22
	45	0,27
	50	0,32
	60	0,43
	70	0,55
	80	0,66
005.0	35	0,21
	40	0,25
	45	0,32
	50	0,38
	60	0,5
	70	0,67
	80	0,8
011.0	35	0,25
	40	0,31
	45	0,38
	50	0,46
	60	0,61
	70	0,79
	80	0,94
015.0	35	0,28
	40	0,37
	45	0,46
	50	0,55
	60	0,730
	70	0,920
	80	1,1
017.0	35	0,330
	40	0,440
	45	0,550
	50	0,660
	60	0,880
	70	1,080
	80	1,300

Data based on the rated water flow rate
Twi = inlet water temperature (°C)
Pt = delivered heating capacity(kW)
Ambient air temperature 20°C

⚠ Static heating performances occur when water passes through the terminal and the main ventilation is off.

Cooling CC2

Size.	Room Temperature Dry Bulb [°C]	Water inlet temperature [°C]	7							
		Delta T	5		6		7		8	
		Room Temperature Wet Bulb [°C]	Total Capacity [kW]	Sensible Capacity [kW]	Total Capacity [kW]	Sensible Capacity [kW]	Total Capacity [kW]	Sensible Capacity [kW]	Total Capacity [kW]	Sensible Capacity [kW]
003.0	23	17	0,63	0,50	0,57	0,48	0,53	0,45	0,49	0,43
		19	0,80	0,45	0,69	0,39	0,65	0,36	0,60	0,34
		20	0,85	0,42	0,74	0,36	0,69	0,33	0,64	0,31
	25	17	0,70	0,67	0,64	0,62	0,60	0,59	0,57	0,55
		19	0,86	0,59	0,76	0,53	0,71	0,50	0,67	0,47
		20	0,91	0,55	0,83	0,50	0,76	0,46	0,71	0,43
	27	17	0,80	0,80	0,73	0,73	0,70	0,70	0,68	0,66
		19	0,91	0,73	0,83	0,69	0,75	0,66	0,71	0,63
		20	0,99	0,68	0,90	0,64	0,80	0,60	0,77	0,57
	29	17	0,88	0,88	0,84	0,84	0,79	0,79	0,76	0,76
		19	0,96	0,88	0,87	0,85	0,79	0,79	0,76	0,76
		20	1,05	0,82	0,96	0,79	0,84	0,75	0,80	0,73
005.0	23	17	1,48	1,22	1,16	1,10	1,08	1,08	1,01	1,01
		19	1,81	1,09	1,53	0,92	1,31	0,81	1,21	0,74
		20	1,94	1,01	1,70	0,88	1,42	0,73	1,30	0,66
	25	17	1,61	1,61	1,35	1,35	1,28	1,28	1,20	1,20
		19	1,98	1,39	1,74	1,29	1,44	1,14	1,33	1,07
		20	2,13	1,30	1,91	1,20	1,56	1,03	1,47	0,97
	27	17	1,80	1,80	1,66	1,66	1,51	1,51	1,43	1,43
		19	2,12	1,72	1,89	1,65	1,52	1,52	1,43	1,43
		20	2,30	1,61	2,09	1,52	1,78	1,42	1,57	1,32
	29	17	2,03	2,03	1,91	1,91	1,75	1,75	1,63	1,63
		19	2,25	2,07	2,01	2,01	1,75	1,75	1,63	1,63
		20	2,45	1,93	2,24	1,85	1,96	1,79	1,63	1,63
011.0	23	17	1,85	1,48	1,72	1,35	1,53	1,21	1,15	1,14
		19	2,41	1,37	2,06	1,24	1,81	1,10	1,62	0,94
		20	2,56	1,29	2,34	1,19	1,96	1,05	1,74	0,90
	25	17	2,08	1,91	1,84	1,78	1,68	1,64	1,49	1,48
		19	2,63	1,73	2,46	1,64	2,13	1,51	1,82	1,35
		20	2,80	1,63	2,63	1,54	2,44	1,45	2,06	1,30
	27	17	2,33	2,33	2,00	2,00	1,84	1,84	1,75	1,75
		19	2,81	2,11	2,65	2,02	2,47	1,94	2,12	1,80
		20	3,00	1,99	2,84	1,90	2,67	1,81	2,47	1,72
	29	17	2,57	2,57	2,48	2,48	2,32	2,32	2,09	2,09
		19	2,97	2,50	2,81	2,43	2,64	2,35	2,44	2,27
		20	3,19	2,36	3,03	2,28	2,86	2,20	2,68	2,12
015.0	23	17	2,20	1,87	2,01	1,65	1,45	1,44	1,37	1,36
		19	2,81	1,75	2,41	1,55	2,11	1,32	1,60	1,02
		20	3,00	1,64	2,71	1,50	2,25	1,28	1,95	1,00
	25	17	2,44	2,43	2,15	2,15	1,92	1,92	1,63	1,62
		19	3,07	2,21	2,83	2,09	2,41	1,87	2,05	1,59
		20	3,29	2,09	3,06	1,96	2,78	1,82	2,27	1,57
	27	17	2,68	2,68	2,38	2,38	2,19	2,19	2,05	2,05
		19	3,30	2,71	3,07	2,59	2,80	2,47	2,28	2,21
		20	3,54	2,55	3,32	2,44	3,07	2,31	2,76	2,16
	29	17	3,03	3,03	2,88	2,88	2,70	2,70	2,42	2,42
		19	3,49	3,22	3,27	3,12	3,01	3,01	2,62	2,62
		20	3,75	3,03	3,55	2,93	3,32	2,82	3,03	2,70
017.0	23	17	2,47	2,10	2,14	1,79	1,58	1,57	1,49	1,48
		19	3,20	1,87	2,72	1,70	2,26	1,40	1,73	1,13
		20	3,41	1,76	3,08	1,60	2,49	1,39	1,86	0,97
	25	17	2,75	2,70	2,34	2,34	2,04	2,03	1,77	1,76
		19	3,48	2,37	3,20	2,24	2,63	2,05	1,85	1,63
		20	3,72	2,23	3,45	2,09	3,09	1,93	2,40	1,64
	27	17	3,00	3,00	2,72	2,72	2,45	2,45	2,18	2,18
		19	3,71	2,90	3,45	2,78	3,07	2,64	2,18	2,18
		20	3,99	2,73	3,73	2,60	3,43	2,46	2,94	2,29
	29	17	3,44	3,44	3,28	3,28	3,05	3,05	2,68	2,68
		19	3,92	3,45	3,65	3,34	3,33	3,24	2,71	2,71
		20	4,23	3,25	3,97	3,13	3,68	3,01	3,32	2,89

Cooling CC2

Size.	Room Temperature Dry Bulb [°C]	Water inlet temperature [°C]	9							
		Delta T	5		6		7		8	
		Room Temperature Wet Bulb [°C]	Total Capacity [kW]	Sensible Capacity [kW]	Total Capacity [kW]	Sensible Capacity [kW]	Total Capacity [kW]	Sensible Capacity [kW]	Total Capacity [kW]	Sensible Capacity [kW]
003.0	23	17	0,47	0,46	0,44	0,43	0,41	0,41	0,39	0,38
		19	0,61	0,35	0,54	0,33	0,50	0,31	0,46	0,29
		20	0,69	0,33	0,59	0,29	0,54	0,27	0,49	0,25
	25	17	0,57	0,55	0,53	0,52	0,50	0,49	0,47	0,46
		19	0,70	0,50	0,60	0,46	0,55	0,44	0,51	0,42
		20	0,78	0,48	0,67	0,41	0,62	0,39	0,57	0,36
	27	17	0,70	0,69	0,64	0,62	0,61	0,59	0,57	0,56
		19	0,76	0,67	0,64	0,62	0,61	0,59	0,57	0,56
		20	0,84	0,62	0,73	0,57	0,67	0,53	0,63	0,51
	29	17	0,81	0,81	0,75	0,75	0,70	0,70	0,68	0,66
		19	0,81	0,81	0,75	0,75	0,71	0,70	0,68	0,67
		20	0,89	0,76	0,79	0,74	0,71	0,70	0,68	0,67
005.0	23	17	1,01	1,01	0,95	0,95	0,89	0,89	0,82	0,82
		19	1,41	0,86	1,11	0,74	1,02	0,69	0,93	0,65
		20	1,58	0,81	1,21	0,63	1,11	0,59	1,02	0,55
	25	17	1,30	1,30	1,14	1,14	1,08	1,08	1,01	1,01
		19	1,61	1,22	1,20	1,06	1,11	1,02	1,03	0,98
		20	1,77	1,14	1,48	0,99	1,24	0,87	1,15	0,83
	27	17	1,59	1,59	1,41	1,41	1,28	1,28	1,21	1,21
		19	1,74	1,59	1,41	1,41	1,28	1,28	1,21	1,21
		20	1,93	1,46	1,68	1,37	1,33	1,24	1,23	1,17
	29	17	1,82	1,82	1,69	1,69	1,51	1,51	1,43	1,43
		19	1,84	1,84	1,70	1,70	1,51	1,51	1,44	1,44
		20	2,06	1,80	1,81	1,75	1,52	1,52	1,44	1,44
011.0	23	17	1,51	1,21	1,28	1,15	1,00	1,00	0,93	0,92
		19	1,78	1,08	1,63	0,96	1,42	0,84	1,06	0,73
		20	1,88	1,03	1,74	0,91	1,57	0,78	1,15	0,62
	25	17	1,62	1,61	1,51	1,50	1,37	1,36	1,15	1,14
		19	1,99	1,47	1,80	1,34	1,64	1,21	1,34	1,10
		20	2,32	1,41	1,98	1,28	1,78	1,15	1,59	1,00
	27	17	1,81	1,81	1,73	1,73	1,64	1,64	1,53	1,52
		19	2,31	1,90	1,99	1,77	1,78	1,63	1,58	1,49
		20	2,57	1,79	2,38	1,70	2,03	1,56	1,78	1,42
	29	17	2,20	2,20	2,01	2,01	1,86	1,86	1,77	1,77
		19	2,51	2,33	2,27	2,23	1,91	1,91	1,77	1,77
		20	2,74	2,18	2,58	2,10	2,38	2,02	1,98	1,87
015.0	23	17	1,77	1,49	1,39	1,38	1,20	1,19	1,11	1,10
		19	2,13	1,34	1,93	1,15	1,35	0,96	1,23	0,90
		20	2,26	1,29	2,07	1,10	1,77	0,89	1,35	0,75
	25	17	1,94	1,94	1,80	1,79	1,56	1,55	1,37	1,36
		19	2,36	1,86	2,12	1,67	1,86	1,44	1,37	1,36
		20	2,71	1,80	2,33	1,61	2,08	1,39	1,51	1,15
	27	17	2,18	2,18	2,08	2,08	1,95	1,95	1,73	1,72
		19	2,69	2,43	2,30	2,23	2,05	2,01	1,74	1,73
		20	2,99	2,29	2,73	2,16	2,30	1,95	1,99	1,69
	29	17	2,63	2,63	2,41	2,41	2,21	2,21	2,09	2,09
		19	2,90	2,90	2,57	2,57	2,21	2,21	2,09	2,09
		20	3,21	2,80	2,97	2,70	2,65	2,55	2,17	2,17
017.0	23	17	1,85	1,66	1,40	1,39	1,30	1,30	1,20	1,20
		19	2,38	1,50	2,05	1,23	1,45	1,07	1,32	1,00
		20	2,60	1,45	2,28	1,21	1,60	0,89	1,45	0,82
	25	17	2,14	2,14	1,94	1,92	1,59	1,58	1,49	1,48
		19	2,69	2,08	2,33	1,85	1,59	1,56	1,49	1,46
		20	3,10	1,95	2,62	1,79	2,21	1,49	1,62	1,28
	27	17	2,46	2,46	2,32	2,32	2,11	2,11	1,78	1,77
		19	3,04	2,64	2,54	2,50	2,12	2,12	1,78	1,77
		20	3,39	2,46	3,07	2,34	2,50	2,16	1,78	1,74
	29	17	3,02	3,02	2,76	2,76	2,49	2,49	2,27	2,27
		19	3,28	3,23	2,82	2,82	2,49	2,49	2,28	2,28
		20	3,61	3,00	3,34	2,90	2,87	2,77	2,28	2,28

Cooling CC2

Size.	Room Temperature Dry Bulb [°C]	Water inlet temperature [°C]	11							
		Delta T	5		6		7		8	
		Room Temperature Wet Bulb [°C]	Total Capacity [kW]	Sensible Capacity [kW]	Total Capacity [kW]	Sensible Capacity [kW]	Total Capacity [kW]	Sensible Capacity [kW]	Total Capacity [kW]	Sensible Capacity [kW]
003.0	23	17	0,38	0,37	0,36	0,35	0,33	0,32	0,30	0,29
		19	0,45	0,30	0,41	0,28	0,37	0,26	0,33	0,24
		20	0,49	0,26	0,45	0,24	0,41	0,22	0,36	0,20
	25	17	0,47	0,46	0,44	0,43	0,42	0,41	0,39	0,38
		19	0,48	0,44	0,45	0,42	0,42	0,41	0,39	0,38
		20	0,57	0,38	0,51	0,36	0,47	0,34	0,43	0,32
	27	17	0,58	0,56	0,53	0,52	0,50	0,49	0,48	0,46
		19	0,58	0,57	0,53	0,52	0,50	0,49	0,48	0,47
		20	0,66	0,54	0,55	0,50	0,51	0,49	0,48	0,47
	29	17	0,71	0,71	0,64	0,62	0,61	0,59	0,57	0,56
		19	0,71	0,71	0,64	0,63	0,61	0,59	0,57	0,56
		20	0,71	0,71	0,65	0,63	0,61	0,59	0,58	0,56
005.0	23	17	0,82	0,82	0,76	0,76	0,69	0,69	0,63	0,63
		19	0,92	0,70	0,83	0,66	0,74	0,61	0,66	0,57
		20	1,03	0,58	0,93	0,54	0,83	0,49	0,74	0,45
	25	17	1,02	1,02	0,95	0,95	0,89	0,89	0,82	0,82
		19	1,02	1,02	0,95	0,94	0,89	0,89	0,82	0,82
		20	1,33	0,92	1,03	0,84	0,95	0,80	0,86	0,76
	27	17	1,33	1,33	1,14	1,14	1,08	1,08	1,02	1,02
		19	1,34	1,34	1,15	1,15	1,08	1,08	1,02	1,02
		20	1,52	1,30	1,15	1,13	1,08	1,07	1,02	1,00
	29	17	1,61	1,61	1,46	1,46	1,29	1,29	1,21	1,21
		19	1,61	1,61	1,47	1,47	1,29	1,29	1,21	1,21
		20	1,63	1,63	1,47	1,47	1,29	1,29	1,21	1,21
011.0	23	17	1,07	1,06	0,89	0,88	0,79	0,78	0,71	0,70
		19	1,41	0,85	1,17	0,76	0,84	0,69	0,75	0,64
		20	1,55	0,77	1,35	0,68	0,94	0,56	0,84	0,50
	25	17	1,36	1,35	1,23	1,22	1,05	1,04	0,93	0,92
		19	1,59	1,19	1,40	1,11	1,06	1,05	0,93	0,91
		20	1,73	1,12	1,58	1,01	1,35	0,91	0,98	0,85
	27	17	1,61	1,61	1,52	1,52	1,40	1,39	1,22	1,21
		19	1,71	1,60	1,55	1,49	1,40	1,39	1,23	1,22
		20	1,86	1,52	1,74	1,40	1,57	1,28	1,23	1,20
	29	17	1,82	1,82	1,74	1,74	1,66	1,66	1,55	1,55
		19	1,82	1,82	1,75	1,75	1,66	1,66	1,56	1,56
		20	2,13	1,96	1,85	1,83	1,70	1,70	1,56	1,56
015.0	23	17	1,26	1,25	1,03	1,02	0,94	0,93	0,84	0,84
		19	1,67	1,03	1,09	0,92	0,97	0,86	0,86	0,80
		20	1,86	0,93	1,52	0,80	1,10	0,68	0,97	0,62
	25	17	1,64	1,63	1,44	1,43	1,20	1,19	1,11	1,10
		19	1,89	1,47	1,54	1,38	1,20	1,17	1,11	1,09
		20	2,07	1,40	1,86	1,22	1,23	1,12	1,12	1,07
	27	17	1,95	1,95	1,83	1,82	1,63	1,62	1,37	1,36
		19	2,02	2,00	1,84	1,83	1,63	1,62	1,37	1,36
		20	2,22	1,93	2,04	1,74	1,69	1,58	1,38	1,34
	29	17	2,19	2,19	2,10	2,10	1,98	1,98	1,82	1,81
		19	2,19	2,19	2,10	2,10	1,99	1,99	1,82	1,81
		20	2,49	2,49	2,17	2,17	1,99	1,99	1,83	1,81
017.0	23	17	1,32	1,31	1,12	1,11	1,02	1,01	0,92	0,91
		19	1,77	1,13	1,16	1,03	1,04	0,97	0,92	0,90
		20	2,02	1,02	1,32	0,82	1,19	0,75	1,05	0,69
	25	17	1,78	1,77	1,48	1,47	1,31	1,30	1,21	1,20
		19	2,04	1,61	1,48	1,47	1,31	1,28	1,21	1,18
		20	2,30	1,57	1,95	1,33	1,32	1,27	1,21	1,18
	27	17	2,16	2,16	1,98	1,97	1,64	1,63	1,50	1,49
		19	2,20	2,20	1,99	1,98	1,64	1,63	1,50	1,49
		20	2,50	2,18	2,21	1,92	1,65	1,64	1,50	1,47
	29	17	2,48	2,48	2,34	2,34	2,16	2,16	1,80	1,79
		19	2,49	2,49	2,35	2,35	2,17	2,17	1,81	1,80
		20	2,80	2,77	2,38	2,38	2,17	2,17	1,82	1,81

Cooling CC2

Size.	Room Temperature Dry Bulb [°C]	Water inlet temperature [°C]	13							
		Delta T	5		6		7		8	
		Room Temperature Wet Bulb [°C]	Total Capacity [kW]	Sensible Capacity [kW]	Total Capacity [kW]	Sensible Capacity [kW]	Total Capacity [kW]	Sensible Capacity [kW]	Total Capacity [kW]	Sensible Capacity [kW]
003.0	23	17	0,30	0,29	0,27	0,26	0,24	0,23	0,20	0,20
		19	0,31	0,27	0,27	0,25	0,24	0,23	0,20	0,19
		20	0,36	0,22	0,32	0,20	0,27	0,17	0,23	0,15
	25	17	0,38	0,38	0,36	0,35	0,33	0,32	0,30	0,29
		19	0,39	0,37	0,36	0,35	0,33	0,32	0,30	0,29
		20	0,41	0,35	0,37	0,33	0,33	0,31	0,30	0,29
	27	17	0,47	0,46	0,44	0,43	0,42	0,41	0,39	0,38
		19	0,47	0,46	0,45	0,43	0,42	0,41	0,39	0,38
		20	0,47	0,46	0,45	0,44	0,42	0,40	0,39	0,37
	29	17	0,60	0,58	0,53	0,52	0,50	0,49	0,48	0,47
		19	0,60	0,58	0,54	0,52	0,51	0,49	0,48	0,47
		20	0,60	0,58	0,54	0,52	0,51	0,49	0,48	0,47
005.0	23	17	0,63	0,63	0,57	0,57	0,50	0,50	0,42	0,42
		19	0,64	0,62	0,57	0,56	0,50	0,49	0,42	0,41
		20	0,74	0,49	0,64	0,45	0,55	0,40	0,45	0,35
	25	17	0,83	0,83	0,76	0,76	0,70	0,70	0,63	0,63
		19	0,83	0,81	0,76	0,75	0,70	0,69	0,63	0,63
		20	0,83	0,81	0,76	0,75	0,70	0,69	0,63	0,62
	27	17	1,06	1,06	0,95	0,95	0,89	0,89	0,82	0,82
		19	1,06	1,06	0,96	0,96	0,89	0,89	0,83	0,83
		20	1,06	1,05	0,96	0,94	0,89	0,88	0,83	0,81
	29	17	1,36	1,36	1,15	1,15	1,08	1,08	1,02	1,02
		19	1,37	1,37	1,16	1,16	1,08	1,08	1,02	1,02
		20	1,37	1,37	1,16	1,16	1,09	1,09	1,02	1,02
011.0	23	17	0,77	0,76	0,64	0,64	0,57	0,56	0,48	0,47
		19	0,88	0,70	0,65	0,64	0,57	0,55	0,48	0,47
		20	1,09	0,60	0,73	0,51	0,63	0,45	0,52	0,39
	25	17	1,09	1,08	0,93	0,93	0,79	0,78	0,71	0,71
		19	1,09	1,07	0,94	0,93	0,79	0,77	0,71	0,70
		20	1,32	0,92	1,06	0,86	0,79	0,77	0,71	0,69
	27	17	1,37	1,36	1,26	1,25	1,10	1,09	0,93	0,93
		19	1,38	1,36	1,26	1,25	1,10	1,09	0,94	0,93
		20	1,49	1,27	1,26	1,23	1,11	1,08	0,94	0,91
	29	17	1,62	1,62	1,54	1,54	1,42	1,41	1,27	1,26
		19	1,62	1,62	1,54	1,54	1,43	1,41	1,27	1,26
		20	1,62	1,62	1,54	1,54	1,43	1,42	1,27	1,26
015.0	23	17	0,86	0,85	0,77	0,76	0,67	0,67	0,57	0,56
		19	0,86	0,85	0,77	0,75	0,67	0,66	0,57	0,55
		20	1,22	0,72	0,85	0,63	0,72	0,56	0,60	0,49
	25	17	1,30	1,29	1,03	1,02	0,94	0,93	0,85	0,84
		19	1,30	1,29	1,03	1,01	0,94	0,93	0,85	0,83
		20	1,54	1,14	1,03	1,01	0,94	0,92	0,85	0,83
	27	17	1,66	1,65	1,49	1,48	1,20	1,19	1,11	1,10
		19	1,66	1,65	1,49	1,48	1,20	1,19	1,11	1,11
		20	1,74	1,58	1,49	1,46	1,20	1,18	1,11	1,09
	29	17	1,96	1,96	1,85	1,85	1,68	1,67	1,37	1,37
		19	1,97	1,97	1,86	1,86	1,68	1,67	1,38	1,37
		20	1,97	1,97	1,86	1,86	1,69	1,67	1,38	1,37
017.0	23	17	0,93	0,93	0,84	0,83	0,73	0,73	0,62	0,61
		19	0,93	0,91	0,84	0,82	0,73	0,72	0,62	0,60
		20	1,04	0,76	0,91	0,70	0,78	0,64	0,64	0,56
	25	17	1,38	1,37	1,12	1,11	1,02	1,02	0,92	0,92
		19	1,38	1,35	1,12	1,10	1,02	1,00	0,92	0,90
		20	1,59	1,27	1,12	1,10	1,03	1,00	0,92	0,90
	27	17	1,81	1,80	1,57	1,56	1,31	1,30	1,21	1,20
		19	1,81	1,80	1,58	1,57	1,31	1,30	1,21	1,21
		20	1,82	1,78	1,58	1,54	1,31	1,28	1,21	1,19
	29	17	2,18	2,18	2,02	2,01	1,76	1,75	1,50	1,49
		19	2,18	2,18	2,02	2,02	1,77	1,76	1,50	1,49
		20	2,18	2,18	2,03	2,03	1,77	1,76	1,50	1,49

Heating CC2

Size.	Water inlet temperature [°C]	45				50			
	Delta T	5	10	14	16	5	10	14	16
	Room Temperature [°C]	Total capacity	Total capacity	Total capacity	Total capacity	Total capacity	Total capacity	Total capacity	Total capacity
003.0	18	1,09	0,94	0,74	0,69	1,29	1,14	1,03	0,93
	20	1,02	0,84	0,66	0,60	1,21	1,08	0,93	0,82
	22	0,93	0,74	0,58	0,52	1,12	1,00	0,82	0,73
	24	0,83	0,63	0,49	0,43	1,06	0,91	0,71	0,65
	26	0,74	0,52	0,40	0,33	0,98	0,81	0,62	0,57
005.0	18	2,37	2,04	1,57	1,39	2,76	2,51	2,24	2,03
	20	2,21	1,83	1,34	1,22	2,61	2,35	2,03	1,77
	22	2,01	1,61	1,17	1,04	2,46	2,17	1,79	1,48
	24	1,81	1,38	0,99	0,86	2,30	1,97	1,54	1,31
	26	1,61	1,12	0,81	0,66	2,12	1,75	1,26	1,14
011.0	18	3,24	2,88	2,48	2,22	3,87	3,50	3,20	3,03
	20	3,01	2,61	2,18	1,87	3,61	3,27	2,95	2,74
	22	2,75	2,33	1,86	1,41	3,36	3,04	2,67	2,44
	24	2,48	2,04	1,49	1,15	3,14	2,77	2,38	2,12
	26	2,21	1,75	1,09	0,89	2,90	2,50	2,07	1,78
015.0	18	4,08	3,61	3,06	2,67	4,92	4,44	3,98	3,77
	20	3,80	3,26	2,66	2,13	4,60	4,11	3,68	3,39
	22	3,47	2,91	2,22	1,70	4,27	3,81	3,32	3,00
	24	3,13	2,54	1,62	1,40	3,94	3,48	2,94	2,57
	26	2,79	2,16	1,33	1,08	3,66	3,13	2,54	2,06
017.0	18	4,66	4,11	3,43	2,88	5,70	5,14	4,51	4,26
	20	4,32	3,71	2,96	2,25	5,32	4,70	4,18	3,81
	22	3,96	3,30	2,37	1,92	4,92	4,26	3,75	3,34
	24	3,57	2,88	1,83	1,58	4,49	3,96	3,31	2,81
	26	3,18	2,43	1,49	1,22	4,18	3,55	2,83	2,10

Heating CC2

Size.	Water inlet temperature [°C]	55				60			
	Delta T	5	10	14	16	5	10	14	16
	Room Temperature [°C]	Total capacity	Total capacity	Total capacity	Total capacity	Total capacity	Total capacity	Total capacity	Total capacity
003.0	18	1,52	1,38	1,25	1,17	1,74	1,61	1,49	1,42
	20	1,43	1,29	1,16	1,09	1,66	1,52	1,40	1,33
	22	1,35	1,20	1,08	1,01	1,57	1,44	1,31	1,24
	24	1,26	1,12	1,00	0,91	1,48	1,35	1,22	1,15
	26	1,17	1,05	0,90	0,79	1,40	1,26	1,13	1,07
005.0	18	3,23	2,94	2,69	2,56	3,71	3,43	3,18	3,04
	20	3,05	2,76	2,53	2,39	3,53	3,25	2,99	2,84
	22	2,86	2,61	2,36	2,20	3,34	3,06	2,80	2,68
	24	2,71	2,45	2,18	1,98	3,16	2,87	2,65	2,52
	26	2,55	2,29	1,96	1,73	2,97	2,71	2,49	2,35
011.0	18	4,53	4,18	3,87	3,69	5,19	4,86	4,56	4,40
	20	4,28	3,92	3,60	3,42	4,94	4,60	4,30	4,13
	22	4,02	3,66	3,35	3,18	4,68	4,34	4,04	3,87
	24	3,76	3,41	3,11	2,93	4,43	4,09	3,77	3,60
	26	3,50	3,18	2,85	2,64	4,17	3,82	3,50	3,35
015.0	18	5,77	5,31	4,89	4,66	6,61	6,17	5,78	5,57
	20	5,44	4,98	4,55	4,31	6,29	5,85	5,45	5,23
	22	5,12	4,65	4,21	3,95	5,96	5,52	5,11	4,89
	24	4,79	4,31	3,87	3,65	5,64	5,19	4,77	4,54
	26	4,46	3,97	3,56	3,27	5,31	4,85	4,43	4,19
017.0	18	6,68	6,15	5,65	5,37	7,66	7,15	6,69	6,43
	20	6,31	5,76	5,25	4,95	7,29	6,77	6,30	6,04
	22	5,93	5,38	4,82	4,48	6,91	6,39	5,91	5,64
	24	5,55	4,96	4,37	4,13	6,53	6,01	5,52	5,24
	26	5,16	4,53	4,04	3,68	6,15	5,62	5,11	4,78

Cooling CC4

Size.	Room Temperature Dry Bulb [°C]	Water inlet temperature [°C]	7							
		Delta T	5		6		7		8	
		Room Temperature Wet bulb [°C]	Total Capacity [kW]	Sensible Capacity [kW]	Total Capacity [kW]	Sensible Capacity [kW]	Total Capacity [kW]	Sensible Capacity [kW]	Total Capacity [kW]	Sensible Capacity [kW]
003.0	23	17	0,51	0,39	0,47	0,38	0,43	0,36	0,40	0,34
		19	0,64	0,34	0,57	0,31	0,53	0,29	0,49	0,27
		20	0,68	0,32	0,61	0,28	0,57	0,26	0,53	0,24
	25	17	0,55	0,52	0,52	0,49	0,49	0,46	0,46	0,44
		19	0,69	0,45	0,62	0,41	0,58	0,39	0,55	0,37
		20	0,73	0,42	0,66	0,38	0,62	0,35	0,59	0,33
	27	17	0,64	0,62	0,60	0,57	0,57	0,54	0,55	0,52
		19	0,72	0,56	0,65	0,52	0,62	0,50	0,58	0,48
		20	0,79	0,52	0,71	0,49	0,65	0,46	0,63	0,44
	29	17	0,70	0,70	0,67	0,66	0,64	0,62	0,62	0,60
		19	0,77	0,67	0,68	0,65	0,64	0,62	0,62	0,60
		20	0,84	0,63	0,76	0,60	0,67	0,57	0,65	0,56
005.0	23	17	0,94	0,78	0,82	0,75	0,76	0,72	0,71	0,70
		19	1,28	0,70	1,00	0,58	0,92	0,54	0,86	0,51
		20	1,37	0,66	1,16	0,56	1,00	0,49	0,92	0,45
	25	17	1,06	1,04	0,93	0,91	0,89	0,87	0,84	0,83
		19	1,38	0,92	1,19	0,82	1,00	0,75	0,93	0,71
		20	1,49	0,86	1,33	0,78	1,11	0,68	1,03	0,64
	27	17	1,26	1,26	1,14	1,12	1,03	1,02	0,98	0,96
		19	1,48	1,15	1,30	1,07	1,06	0,99	0,99	0,97
		20	1,61	1,07	1,45	1,01	1,19	0,91	1,11	0,86
	29	17	1,41	1,41	1,33	1,33	1,21	1,19	1,15	1,14
		19	1,56	1,37	1,38	1,33	1,21	1,20	1,15	1,14
		20	1,71	1,29	1,55	1,24	1,30	1,17	1,16	1,12
011.0	23	17	1,38	1,11	1,25	1,02	1,05	0,92	0,86	0,85
		19	1,77	1,01	1,57	0,93	1,34	0,83	1,13	0,70
		20	1,89	0,95	1,74	0,88	1,50	0,79	1,26	0,67
	25	17	1,55	1,42	1,35	1,33	1,18	1,18	1,03	1,03
		19	1,93	1,27	1,79	1,21	1,59	1,12	1,33	1,01
		20	2,06	1,19	1,93	1,13	1,78	1,06	1,54	0,97
	27	17	1,70	1,70	1,49	1,49	1,35	1,35	1,27	1,27
		19	2,06	1,54	1,93	1,48	1,79	1,42	1,55	1,33
		20	2,21	1,45	2,09	1,39	1,95	1,33	1,79	1,26
	29	17	1,87	1,87	1,79	1,79	1,70	1,70	1,55	1,55
		19	2,17	1,82	2,05	1,77	1,91	1,71	1,74	1,66
		20	2,34	1,72	2,22	1,66	2,09	1,61	1,94	1,55
015.0	23	17	1,65	1,43	1,44	1,28	1,10	1,10	1,04	1,04
		19	2,12	1,30	1,85	1,17	1,54	1,00	1,22	0,82
		20	2,29	1,21	2,07	1,12	1,72	0,97	1,31	0,72
	25	17	1,84	1,83	1,56	1,56	1,36	1,36	1,22	1,22
		19	2,33	1,62	2,13	1,54	1,81	1,41	1,31	1,17
		20	2,51	1,52	2,32	1,44	2,08	1,35	1,66	1,17
	27	17	1,99	1,99	1,80	1,80	1,62	1,62	1,46	1,46
		19	2,50	1,96	2,31	1,89	2,07	1,83	1,59	1,59
		20	2,69	1,85	2,52	1,77	2,31	1,69	2,03	1,60
	29	17	2,27	2,27	2,16	2,16	2,02	2,02	1,81	1,81
		19	2,63	2,33	2,46	2,26	2,23	2,21	1,82	1,82
		20	2,84	2,20	2,68	2,12	2,49	2,05	2,24	1,98
017.0	23	17	2,01	1,69	1,39	1,39	1,31	1,31	1,23	1,23
		19	2,67	1,52	2,29	1,37	1,57	1,06	1,46	0,99
		20	2,82	1,42	2,61	1,31	1,97	1,09	1,58	0,87
	25	17	2,26	2,17	1,81	1,81	1,54	1,54	1,46	1,46
		19	2,84	1,90	2,64	1,82	2,04	1,62	1,56	1,43
		20	3,03	1,78	2,82	1,68	2,56	1,57	1,72	1,26
	27	17	2,51	2,51	2,25	2,25	1,94	1,94	1,70	1,70
		19	3,00	2,31	2,80	2,23	2,44	2,13	1,70	1,70
		20	3,24	2,17	3,01	2,07	2,78	1,98	1,81	1,73
	29	17	2,80	2,80	2,69	2,69	2,53	2,53	2,13	2,13
		19	3,15	2,73	2,91	2,66	2,65	2,63	2,14	2,14
		20	3,42	2,58	3,20	2,49	2,93	2,40	2,60	2,35

Cooling CC4

Size.	Room Temperature Dry Bulb [°C]	Water inlet temperature [°C]	9							
		Delta T	5		6		7		8	
		Room Temperature Wet bulb [°C]	Total Capacity [kW]	Sensible Capacity [kW]	Total Capacity [kW]	Sensible Capacity [kW]	Total Capacity [kW]	Sensible Capacity [kW]	Total Capacity [kW]	Sensible Capacity [kW]
003.0	23	17	0,37	0,36	0,35	0,34	0,32	0,32	0,30	0,30
		19	0,49	0,28	0,44	0,26	0,40	0,24	0,36	0,23
		20	0,55	0,26	0,49	0,23	0,44	0,21	0,40	0,20
	25	17	0,46	0,44	0,43	0,41	0,40	0,39	0,38	0,37
		19	0,56	0,39	0,49	0,36	0,45	0,35	0,42	0,33
		20	0,63	0,36	0,54	0,33	0,51	0,31	0,47	0,29
	27	17	0,56	0,53	0,52	0,49	0,49	0,46	0,47	0,44
		19	0,61	0,50	0,52	0,48	0,49	0,46	0,47	0,44
		20	0,67	0,47	0,59	0,43	0,55	0,42	0,51	0,40
	29	17	0,64	0,63	0,60	0,57	0,57	0,54	0,55	0,52
		19	0,64	0,63	0,60	0,57	0,58	0,54	0,55	0,52
		20	0,70	0,58	0,62	0,56	0,58	0,55	0,55	0,52
005.0	23	17	0,71	0,69	0,66	0,65	0,62	0,61	0,57	0,57
		19	0,93	0,55	0,79	0,51	0,72	0,48	0,66	0,45
		20	1,08	0,52	0,86	0,44	0,79	0,41	0,72	0,38
	25	17	0,86	0,85	0,80	0,78	0,75	0,74	0,71	0,70
		19	1,09	0,78	0,85	0,72	0,79	0,69	0,73	0,66
		20	1,25	0,74	0,94	0,62	0,88	0,59	0,81	0,57
	27	17	1,08	1,06	0,93	0,91	0,89	0,87	0,84	0,83
		19	1,21	1,03	0,94	0,92	0,89	0,87	0,85	0,83
		20	1,35	0,96	1,12	0,87	0,93	0,82	0,87	0,79
	29	17	1,28	1,28	1,17	1,16	1,04	1,02	0,99	0,97
		19	1,28	1,28	1,18	1,16	1,04	1,03	0,99	0,97
		20	1,43	1,20	1,24	1,13	1,04	1,03	0,99	0,97
011.0	23	17	1,08	0,93	0,86	0,85	0,75	0,75	0,70	0,69
		19	1,32	0,82	1,19	0,73	0,99	0,62	0,81	0,54
		20	1,46	0,78	1,29	0,69	1,13	0,59	0,88	0,47
	25	17	1,16	1,16	1,08	1,08	0,97	0,97	0,86	0,85
		19	1,51	1,10	1,32	1,01	1,17	0,92	0,89	0,81
		20	1,73	1,05	1,51	0,96	1,31	0,87	1,10	0,75
	27	17	1,33	1,33	1,26	1,26	1,18	1,18	1,07	1,07
		19	1,71	1,41	1,49	1,32	1,29	1,23	1,08	1,08
		20	1,88	1,31	1,74	1,25	1,52	1,17	1,28	1,06
	29	17	1,63	1,63	1,51	1,51	1,38	1,38	1,29	1,29
		19	1,82	1,70	1,66	1,64	1,40	1,40	1,29	1,29
		20	2,01	1,59	1,87	1,54	1,72	1,48	1,45	1,39
015.0	23	17	1,25	1,17	0,97	0,97	0,91	0,91	0,84	0,84
		19	1,59	1,04	1,38	0,90	1,05	0,73	0,96	0,69
		20	1,76	0,99	1,53	0,86	1,14	0,64	1,05	0,58
	25	17	1,40	1,40	1,28	1,28	1,10	1,10	1,04	1,04
		19	1,81	1,41	1,56	1,28	1,12	1,10	1,04	1,04
		20	2,07	1,35	1,79	1,22	1,50	1,07	1,16	0,90
	27	17	1,62	1,62	1,53	1,53	1,40	1,40	1,22	1,22
		19	2,03	1,82	1,73	1,69	1,40	1,40	1,23	1,23
		20	2,26	1,68	2,06	1,62	1,72	1,47	1,23	1,23
	29	17	1,98	1,98	1,83	1,83	1,66	1,66	1,51	1,51
		19	2,16	2,16	1,90	1,90	1,66	1,66	1,52	1,52
		20	2,43	2,03	2,22	1,98	1,95	1,90	1,52	1,52
017.0	23	17	1,35	1,35	1,15	1,15	1,08	1,08	1,00	1,00
		19	1,94	1,24	1,49	1,02	1,23	0,90	1,12	0,85
		20	2,23	1,18	1,81	0,99	1,35	0,77	1,23	0,71
	25	17	1,69	1,69	1,47	1,47	1,31	1,31	1,24	1,24
		19	2,26	1,68	1,82	1,51	1,31	1,31	1,24	1,24
		20	2,62	1,59	2,19	1,44	1,48	1,17	1,37	1,10
	27	17	2,02	2,02	1,85	1,85	1,57	1,57	1,47	1,47
		19	2,55	2,16	2,02	2,00	1,58	1,58	1,47	1,47
		20	2,78	1,98	2,57	1,91	1,90	1,71	1,47	1,47
	29	17	2,54	2,54	2,31	2,31	2,02	2,02	1,70	1,70
		19	2,67	2,61	2,32	2,32	2,03	2,03	1,71	1,71
		20	2,91	2,39	2,72	2,34	2,21	2,21	1,71	1,71

Cooling CC4

Size.	Room Temperature Dry Bulb [°C]	Water inlet temperature [°C]	11							
		Delta T	5		6		7		8	
		Room Temperature Wet bulb [°C]	Total Capacity [kW]	Sensible Capacity [kW]	Total Capacity [kW]	Sensible Capacity [kW]	Total Capacity [kW]	Sensible Capacity [kW]	Total Capacity [kW]	Sensible Capacity [kW]
003.0	23	17	0,30	0,30	0,27	0,27	0,25	0,25	0,23	0,23
		19	0,35	0,24	0,32	0,22	0,29	0,21	0,25	0,19
		20	0,40	0,21	0,36	0,19	0,32	0,17	0,28	0,16
	25	17	0,37	0,36	0,35	0,34	0,32	0,32	0,30	0,30
		19	0,39	0,35	0,35	0,33	0,32	0,32	0,30	0,29
		20	0,45	0,30	0,41	0,29	0,37	0,27	0,34	0,25
	27	17	0,46	0,44	0,43	0,41	0,41	0,39	0,38	0,37
		19	0,46	0,44	0,43	0,42	0,41	0,39	0,38	0,37
		20	0,51	0,41	0,45	0,40	0,41	0,38	0,38	0,37
	29	17	0,57	0,54	0,52	0,49	0,49	0,46	0,47	0,44
		19	0,57	0,54	0,52	0,49	0,50	0,47	0,47	0,44
		20	0,57	0,54	0,52	0,49	0,50	0,47	0,47	0,44
005.0	23	17	0,57	0,57	0,53	0,52	0,49	0,48	0,44	0,43
		19	0,65	0,48	0,59	0,45	0,53	0,42	0,47	0,39
		20	0,72	0,40	0,66	0,37	0,59	0,34	0,52	0,31
	25	17	0,71	0,70	0,66	0,65	0,62	0,61	0,58	0,57
		19	0,71	0,69	0,67	0,65	0,62	0,60	0,58	0,56
		20	0,87	0,60	0,73	0,57	0,67	0,54	0,61	0,51
	27	17	0,89	0,87	0,80	0,78	0,75	0,74	0,71	0,70
		19	0,89	0,87	0,80	0,79	0,76	0,74	0,71	0,70
		20	1,00	0,83	0,80	0,77	0,76	0,73	0,71	0,69
	29	17	1,10	1,09	0,96	0,94	0,89	0,87	0,85	0,83
		19	1,11	1,09	0,96	0,94	0,89	0,87	0,85	0,83
		20	1,11	1,09	0,96	0,94	0,89	0,88	0,85	0,83
011.0	23	17	0,77	0,76	0,65	0,64	0,59	0,59	0,54	0,53
		19	1,02	0,64	0,82	0,56	0,65	0,51	0,57	0,47
		20	1,13	0,60	0,97	0,51	0,72	0,42	0,64	0,38
	25	17	0,98	0,98	0,89	0,88	0,76	0,75	0,70	0,69
		19	1,15	0,91	0,99	0,84	0,76	0,75	0,70	0,69
		20	1,27	0,86	1,14	0,77	0,93	0,68	0,75	0,63
	27	17	1,16	1,16	1,09	1,09	0,99	0,99	0,87	0,86
		19	1,24	1,21	1,09	1,09	1,00	1,00	0,87	0,86
		20	1,41	1,14	1,27	1,06	1,10	0,98	0,87	0,84
	29	17	1,34	1,34	1,27	1,27	1,20	1,20	1,10	1,10
		19	1,34	1,34	1,28	1,28	1,20	1,20	1,11	1,11
		20	1,58	1,45	1,36	1,36	1,21	1,21	1,11	1,11
015.0	23	17	0,90	0,90	0,78	0,78	0,72	0,72	0,65	0,65
		19	1,20	0,80	0,84	0,70	0,76	0,65	0,67	0,61
		20	1,35	0,75	1,00	0,58	0,86	0,52	0,76	0,48
	25	17	1,18	1,18	1,01	1,01	0,91	0,91	0,85	0,85
		19	1,35	1,16	1,02	1,01	0,91	0,91	0,85	0,84
		20	1,53	1,09	1,32	0,96	0,96	0,85	0,87	0,81
	27	17	1,42	1,42	1,31	1,31	1,13	1,13	1,04	1,04
		19	1,46	1,46	1,31	1,31	1,13	1,13	1,05	1,05
		20	1,69	1,47	1,48	1,35	1,13	1,13	1,05	1,04
	29	17	1,63	1,63	1,54	1,54	1,43	1,43	1,24	1,24
		19	1,64	1,64	1,55	1,55	1,43	1,43	1,24	1,24
		20	1,87	1,87	1,59	1,59	1,44	1,44	1,25	1,25
017.0	23	17	1,00	1,00	0,93	0,93	0,85	0,85	0,77	0,77
		19	1,32	0,94	0,98	0,86	0,88	0,81	0,78	0,75
		20	1,60	0,88	1,12	0,69	1,01	0,64	0,89	0,59
	25	17	1,38	1,38	1,16	1,16	1,08	1,08	1,00	1,00
		19	1,56	1,39	1,16	1,16	1,08	1,08	1,01	1,01
		20	1,85	1,30	1,22	1,10	1,12	1,05	1,02	1,00
	27	17	1,72	1,72	1,53	1,53	1,31	1,31	1,24	1,24
		19	1,72	1,72	1,54	1,54	1,32	1,32	1,24	1,24
		20	2,08	1,76	1,65	1,60	1,32	1,32	1,24	1,24
	29	17	2,06	2,06	1,88	1,88	1,67	1,67	1,47	1,47
		19	2,07	2,07	1,89	1,89	1,68	1,68	1,47	1,47
		20	2,31	2,24	1,89	1,89	1,68	1,68	1,48	1,48

Cooling CC4

Size.	Room Temperature Dry Bulb [°C]	Water inlet temperature [°C]	13							
		Delta T	5		6		7		8	
		Room Temperature Wet bulb [°C]	Total Capacity [kW]	Sensible Capacity [kW]	Total Capacity [kW]	Sensible Capacity [kW]	Total Capacity [kW]	Sensible Capacity [kW]	Total Capacity [kW]	Sensible Capacity [kW]
003.0	23	17	0,23	0,23	0,21	0,21	0,18	0,18	0,16	0,16
		19	0,24	0,21	0,21	0,20	0,18	0,18	0,16	0,15
		20	0,28	0,17	0,25	0,15	0,21	0,14	0,18	0,12
	25	17	0,30	0,30	0,27	0,27	0,25	0,25	0,23	0,23
		19	0,30	0,29	0,28	0,28	0,25	0,25	0,23	0,23
		20	0,32	0,27	0,29	0,26	0,26	0,24	0,23	0,23
	27	17	0,37	0,37	0,35	0,34	0,32	0,32	0,30	0,30
		19	0,38	0,37	0,35	0,34	0,32	0,32	0,30	0,30
		20	0,38	0,37	0,35	0,34	0,32	0,32	0,30	0,29
	29	17	0,47	0,45	0,43	0,41	0,41	0,39	0,38	0,37
		19	0,47	0,45	0,44	0,42	0,41	0,39	0,38	0,37
		20	0,47	0,45	0,44	0,42	0,41	0,39	0,38	0,37
005.0	23	17	0,44	0,44	0,40	0,39	0,35	0,34	0,30	0,29
		19	0,44	0,43	0,40	0,39	0,35	0,34	0,30	0,29
		20	0,52	0,34	0,46	0,31	0,39	0,28	0,32	0,24
	25	17	0,57	0,57	0,53	0,52	0,49	0,48	0,44	0,43
		19	0,58	0,57	0,53	0,52	0,49	0,47	0,44	0,43
		20	0,58	0,56	0,53	0,52	0,49	0,47	0,44	0,43
	27	17	0,71	0,70	0,67	0,66	0,62	0,61	0,58	0,57
		19	0,71	0,70	0,67	0,66	0,62	0,61	0,58	0,57
		20	0,71	0,69	0,67	0,65	0,62	0,60	0,58	0,57
	29	17	0,91	0,89	0,80	0,79	0,76	0,74	0,71	0,70
		19	0,91	0,89	0,80	0,79	0,76	0,74	0,71	0,70
		20	0,91	0,90	0,80	0,79	0,76	0,75	0,71	0,70
011.0	23	17	0,54	0,53	0,49	0,48	0,43	0,42	0,36	0,36
		19	0,54	0,53	0,49	0,47	0,43	0,42	0,36	0,35
		20	0,79	0,44	0,56	0,38	0,48	0,34	0,40	0,29
	25	17	0,79	0,78	0,65	0,64	0,60	0,59	0,54	0,53
		19	0,79	0,77	0,65	0,63	0,60	0,58	0,54	0,53
		20	0,95	0,69	0,65	0,63	0,60	0,58	0,54	0,52
	27	17	0,99	0,99	0,90	0,90	0,76	0,75	0,70	0,70
		19	0,99	0,99	0,91	0,91	0,77	0,76	0,71	0,70
		20	1,06	0,97	0,91	0,91	0,77	0,76	0,71	0,69
	29	17	1,17	1,17	1,10	1,10	1,02	1,02	0,89	0,88
		19	1,17	1,17	1,10	1,10	1,02	1,02	0,89	0,89
		20	1,17	1,17	1,11	1,11	1,02	1,02	0,89	0,89
015.0	23	17	0,65	0,65	0,59	0,59	0,52	0,52	0,44	0,44
		19	0,65	0,65	0,59	0,58	0,52	0,51	0,44	0,43
		20	0,75	0,52	0,66	0,48	0,57	0,43	0,47	0,38
	25	17	0,93	0,93	0,78	0,78	0,72	0,72	0,65	0,65
		19	0,93	0,93	0,78	0,78	0,72	0,71	0,65	0,64
		20	1,09	0,87	0,78	0,78	0,72	0,71	0,65	0,64
	27	17	1,20	1,20	1,06	1,06	0,91	0,91	0,85	0,85
		19	1,20	1,20	1,07	1,07	0,92	0,92	0,85	0,85
		20	1,23	1,23	1,07	1,07	0,92	0,91	0,85	0,84
	29	17	1,43	1,43	1,33	1,33	1,19	1,19	1,05	1,05
		19	1,43	1,43	1,33	1,33	1,19	1,19	1,05	1,05
		20	1,43	1,43	1,33	1,33	1,19	1,19	1,05	1,05
017.0	23	17	0,77	0,77	0,69	0,69	0,61	0,61	0,52	0,52
		19	0,77	0,77	0,70	0,70	0,61	0,61	0,52	0,52
		20	0,88	0,64	0,77	0,59	0,67	0,53	0,55	0,47
	25	17	1,01	1,01	0,93	0,93	0,85	0,85	0,77	0,77
		19	1,01	1,01	0,93	0,93	0,85	0,85	0,77	0,77
		20	1,02	1,02	0,93	0,93	0,85	0,85	0,77	0,77
	27	17	1,42	1,42	1,16	1,16	1,08	1,08	1,01	1,01
		19	1,42	1,42	1,16	1,16	1,09	1,09	1,01	1,01
		20	1,42	1,42	1,16	1,16	1,09	1,09	1,01	1,01
	29	17	1,74	1,74	1,58	1,58	1,32	1,32	1,24	1,24
		19	1,74	1,74	1,58	1,58	1,32	1,32	1,24	1,24
		20	1,74	1,74	1,58	1,58	1,32	1,32	1,24	1,24

Heating CC4

Size	Water inlet temperature [°C]	45				50			
	Delta T	5	10	14	16	5	10	14	16
	Room temperature [°C]	Total capacity	Total capacity	Total capacity	Total capacity	Total capacity	Total capacity	Total capacity	Total capacity
003.0	18	1,09	0,94	0,74	0,69	1,29	1,14	1,03	0,93
	20	1,02	0,84	0,66	0,60	1,21	1,08	0,93	0,82
	22	0,93	0,74	0,58	0,52	1,12	1,00	0,82	0,73
	24	0,83	0,63	0,49	0,43	1,06	0,91	0,71	0,65
	26	0,74	0,52	0,40	0,33	0,98	0,81	0,62	0,57
005.0	18	2,37	2,04	1,57	1,39	2,76	2,51	2,24	2,03
	20	2,21	1,83	1,34	1,22	2,61	2,35	2,03	1,77
	22	2,01	1,61	1,17	1,04	2,46	2,17	1,79	1,48
	24	1,81	1,38	0,99	0,86	2,30	1,97	1,54	1,31
	26	1,61	1,12	0,81	0,66	2,12	1,75	1,26	1,14
011.0	18	3,24	2,88	2,48	2,22	3,87	3,50	3,20	3,03
	20	3,01	2,61	2,18	1,87	3,61	3,27	2,95	2,74
	22	2,75	2,33	1,86	1,41	3,36	3,04	2,67	2,44
	24	2,48	2,04	1,49	1,15	3,14	2,77	2,38	2,12
	26	2,21	1,75	1,09	0,89	2,90	2,50	2,07	1,78
015.0	18	4,08	3,61	3,06	2,67	4,92	4,44	3,98	3,77
	20	3,80	3,26	2,66	2,13	4,60	4,11	3,68	3,39
	22	3,47	2,91	2,22	1,70	4,27	3,81	3,32	3,00
	24	3,13	2,54	1,62	1,40	3,94	3,48	2,94	2,57
	26	2,79	2,16	1,33	1,08	3,66	3,13	2,54	2,06
017.0	18	4,66	4,11	3,43	2,88	5,70	5,14	4,51	4,26
	20	4,32	3,71	2,96	2,25	5,32	4,70	4,18	3,81
	22	3,96	3,30	2,37	1,92	4,92	4,26	3,75	3,34
	24	3,57	2,88	1,83	1,58	4,49	3,96	3,31	2,81
	26	3,18	2,43	1,49	1,22	4,18	3,55	2,83	2,10

Heating CC4

Size	Water inlet temperature [°C]	55				60			
	Delta T	5	10	14	16	5	10	14	16
	Room temperature [°C]	Total capacity	Total capacity	Total capacity	Total capacity	Total capacity	Total capacity	Total capacity	Total capacity
003.0	18	1,52	1,38	1,25	1,17	1,74	1,61	1,49	1,42
	20	1,43	1,29	1,16	1,09	1,66	1,52	1,40	1,33
	22	1,35	1,20	1,08	1,01	1,57	1,44	1,31	1,24
	24	1,26	1,12	1,00	0,91	1,48	1,35	1,22	1,15
	26	1,17	1,05	0,90	0,79	1,40	1,26	1,13	1,07
005.0	18	3,23	2,94	2,69	2,56	3,71	3,43	3,18	3,04
	20	3,05	2,76	2,53	2,39	3,53	3,25	2,99	2,84
	22	2,86	2,61	2,36	2,20	3,34	3,06	2,80	2,68
	24	2,71	2,45	2,18	1,98	3,16	2,87	2,65	2,52
	26	2,55	2,29	1,96	1,73	2,97	2,71	2,49	2,35
011.0	18	4,53	4,18	3,87	3,69	5,19	4,86	4,56	4,40
	20	4,28	3,92	3,60	3,42	4,94	4,60	4,30	4,13
	22	4,02	3,66	3,35	3,18	4,68	4,34	4,04	3,87
	24	3,76	3,41	3,11	2,93	4,43	4,09	3,77	3,60
	26	3,50	3,18	2,85	2,64	4,17	3,82	3,50	3,35
015.0	18	5,77	5,31	4,89	4,66	6,61	6,17	5,78	5,57
	20	5,44	4,98	4,55	4,31	6,29	5,85	5,45	5,23
	22	5,12	4,65	4,21	3,95	5,96	5,52	5,11	4,89
	24	4,79	4,31	3,87	3,65	5,64	5,19	4,77	4,54
	26	4,46	3,97	3,56	3,27	5,31	4,85	4,43	4,19
017.0	18	6,68	6,15	5,65	5,37	7,66	7,15	6,69	6,43
	20	6,31	5,76	5,25	4,95	7,29	6,77	6,30	6,04
	22	5,93	5,38	4,82	4,48	6,91	6,39	5,91	5,64
	24	5,55	4,96	4,37	4,13	6,53	6,01	5,52	5,24
	26	5,16	4,53	4,04	3,68	6,15	5,62	5,11	4,78

Variation of air flow rate as a function of available pressure for two-pipe systems

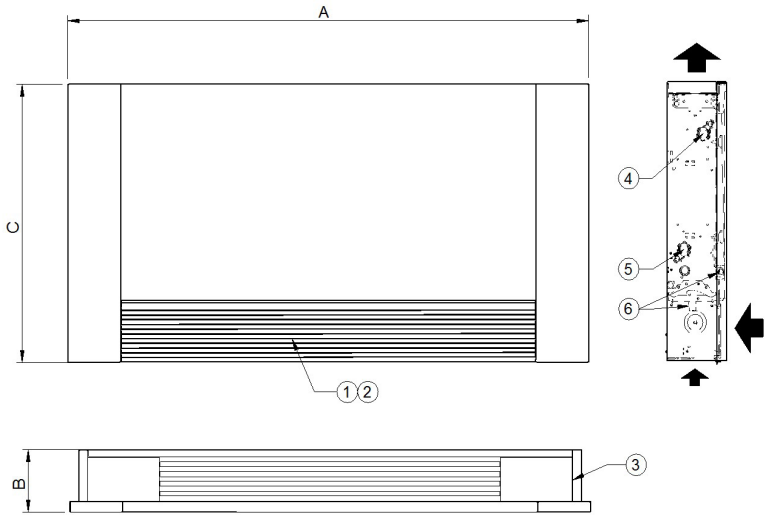
MAX SPEED		MED SPEED			MIN SPEED		
SIZE 003.0		**SIZE 003.0**			**SIZE 003.0**		
m³/h	Pa	m³/h	% max	Pa	m³/h	% max	Pa
0	20	0	-	20	0	-	20
57	15	30	53%	15	0	-	15
101	10	60	59%	10	21	21%	10
128	5	88	69%	5	36	28%	5
162	0	113	70%	0	55	34%	0
SIZE 005.0		**SIZE 005.0**			**SIZE 005.0**		
m³/h	Pa	m³/h	% max	Pa	m³/h	% max	Pa
94	20	0	-	20	0	-	20
141	15	90	64%	15	0	-	15
214	10	162	76%	10	78	36%	10
278	5	215	77%	5	128	46%	5
320	0	252	79%	0	155	48%	0
SIZE 011.0		**SIZE 011.0**			**SIZE 011.0**		
m³/h	Pa	m³/h	% max	Pa	m³/h	% max	Pa
166	20	74	45%	20	43	26%	20
254	15	178	70%	15	114	45%	15
330	10	266	81%	10	191	58%	10
417	5	322	77%	5	231	55%	5
461	0	367	80%	0	248	54%	0
SIZE 015.0		**SIZE 015.0**			**SIZE 015.0**		
m³/h	Pa	m³/h	% max	Pa	m³/h	% max	Pa
163	20	93	57%	20	0	-	20
315	15	232	74%	15	102	32%	16
420	10	339	81%	10	239	57%	10
506	5	415	82%	5	320	63%	5
576	0	453	79%	0	370	64%	0
SIZE 017.0		**SIZE 017.0**			**SIZE 017.0**		
m³/h	Pa	m³/h	% max	Pa	m³/h	% max	Pa
189	20	112	59%	20	0	-	20
395	15	258	65%	15	196	50%	15
506	10	385	76%	10	318	63%	10
593	5	450	76%	5	387	65%	5
648	0	494	76%	0	426	66%	0

Performances

Variation of air flow rate as a function of available pressure for four-pipe systems

MAX SPEED		MED SPEED			MIN SPEED		
SIZE 003.0		**SIZE 003.0**			**SIZE 003.0**		
m^3/h	Pa	m^3/h	% max	Pa	m^3/h	% max	Pa
0	20	0	-	20	0	-	20
52	15	27	51%	15	0	-	15
92	10	53	58%	10	19	21%	10
116	5	78	67%	5	33	28%	5
147	0	101	68%	0	51	34%	0
SIZE 005.0		**SIZE 005.0**			**SIZE 005.0**		
m^3/h	Pa	m^3/h	% max	Pa	m^3/h	% max	Pa
85	20	0	-	20	0	-	20
127	15	82	64%	15	0	-	15
193	10	148	76%	10	69	36%	10
251	5	196	78%	5	114	45%	5
289	0	230	79%	0	138	48%	0
SIZE 011.0		**SIZE 011.0**			**SIZE 011.0**		
m^3/h	Pa	m^3/h	% max	Pa	m^3/h	% max	Pa
148	20	65	44%	20	37	25%	20
227	15	157	69%	15	99	44%	15
294	10	234	80%	10	166	56%	10
372	5	284	76%	5	201	54%	5
411	0	323	79%	0	215	52%	0
SIZE 015.0		**SIZE 015.0**			**SIZE 015.0**		
m^3/h	Pa	m^3/h	% max	Pa	m^3/h	% max	Pa
150	20	84	56%	20	0	-	20
289	15	209	72%	15	93	32%	15
386	10	305	79%	10	217	56%	10
465	5	374	80%	5	290	62%	5
529	0	408	77%	0	336	63%	0
SIZE 017.0		**SIZE 017.0**			**SIZE 017.0**		
m^3/h	Pa	m^3/h	% max	Pa	m^3/h	% max	Pa
176	20	105	60%	20	0	-	20
367	15	241	66%	15	186	51%	15
470	10	360	77%	10	302	64%	10
551	5	421	76%	5	367	67%	5
602	0	462	77%	0	404	67%	0

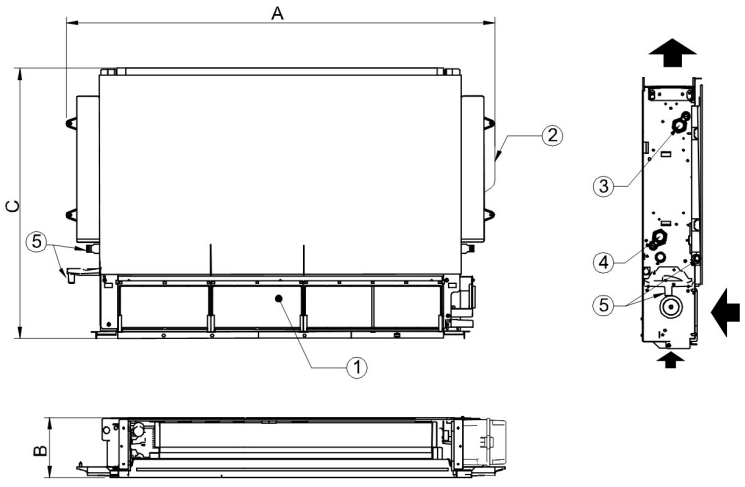
Cased version



1. Intake grille removable
2. Air intake removable filter
3. Electrical panel
4. Water inlet, Eurokonus 3/4" F
5. Water outlet, Eurokonus 3/4" F
6. Condensate drain (Ø 14 mm)

ELFORoom²		003.0	005.0	011.0	015.0	017.0
A	mm	737	937	1137	1337	1537
B	mm	130	130	130	130	130
C	mm	579	579	579	579	579
Operating weight	kg	17	20	23	26	29
Shipping weight	kg	18	21	24	27	30

Uncased version

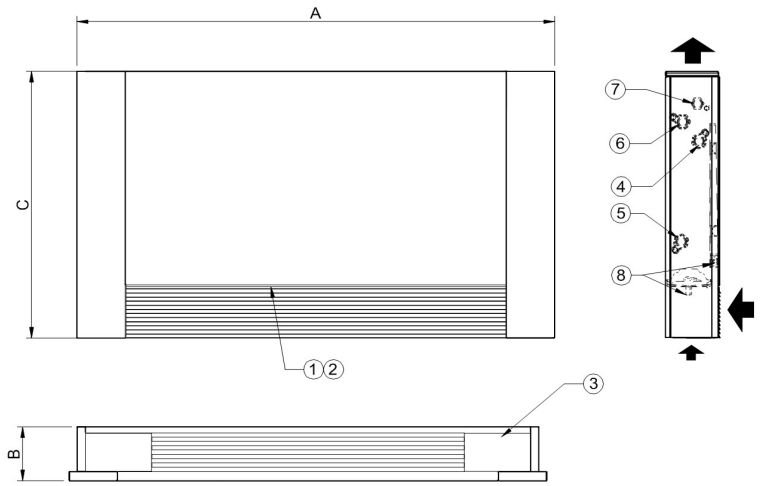


1. Air intake removable filter
2. Electrical panel
3. Water inlet, Eurokonus 3/4" F
4. Water outlet, Eurokonus 3/4" F
5. Condensate drain (Ø 14 mm)

ELFORoom²		003.0	005.0	011.0	015.0	017.0
A	mm	527	727	927	1127	1327
B	mm	130	130	130	130	130
C	mm	586	586	586	586	586
Operating weight	kg	9	12	15	18	21
Shipping weight	kg	10	13	16	19	22

Dimensional drawings - CC4 version

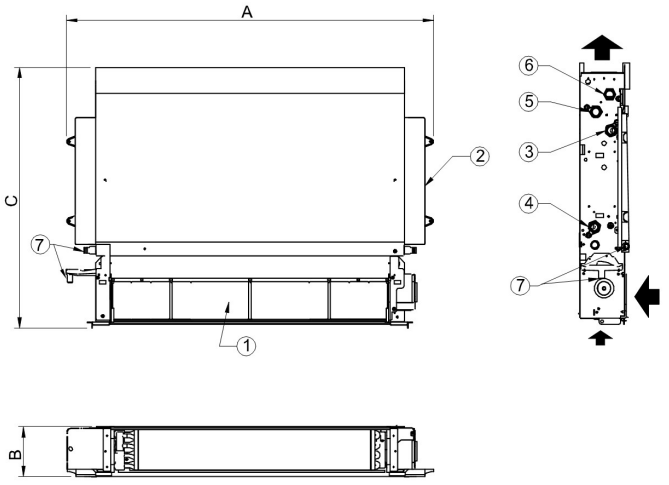
Cased version



1. Intake grille removable
2. Air intake removable filter
3. Electrical panel
4. Water inlet, Eurokonus 3/4" F
5. Water outlet, Eurokonus 3/4" F
6. Additional coil water inlet 3/4" F (4 pipe-installation)
7. Additional coil water outlet 3/4" F (4 pipe- installation)
8. Condensate drain (Ø 14 mm))

ELFORoom²		003.0	005.0	011.0	015.0	017.0
A	mm	737	937	1137	1337	1537
B	mm	130	130	130	130	130
C	mm	639	639	639	639	639
Operating weight	kg	18	21	25	28	32
Shipping weight	kg	19	22	26	29	33

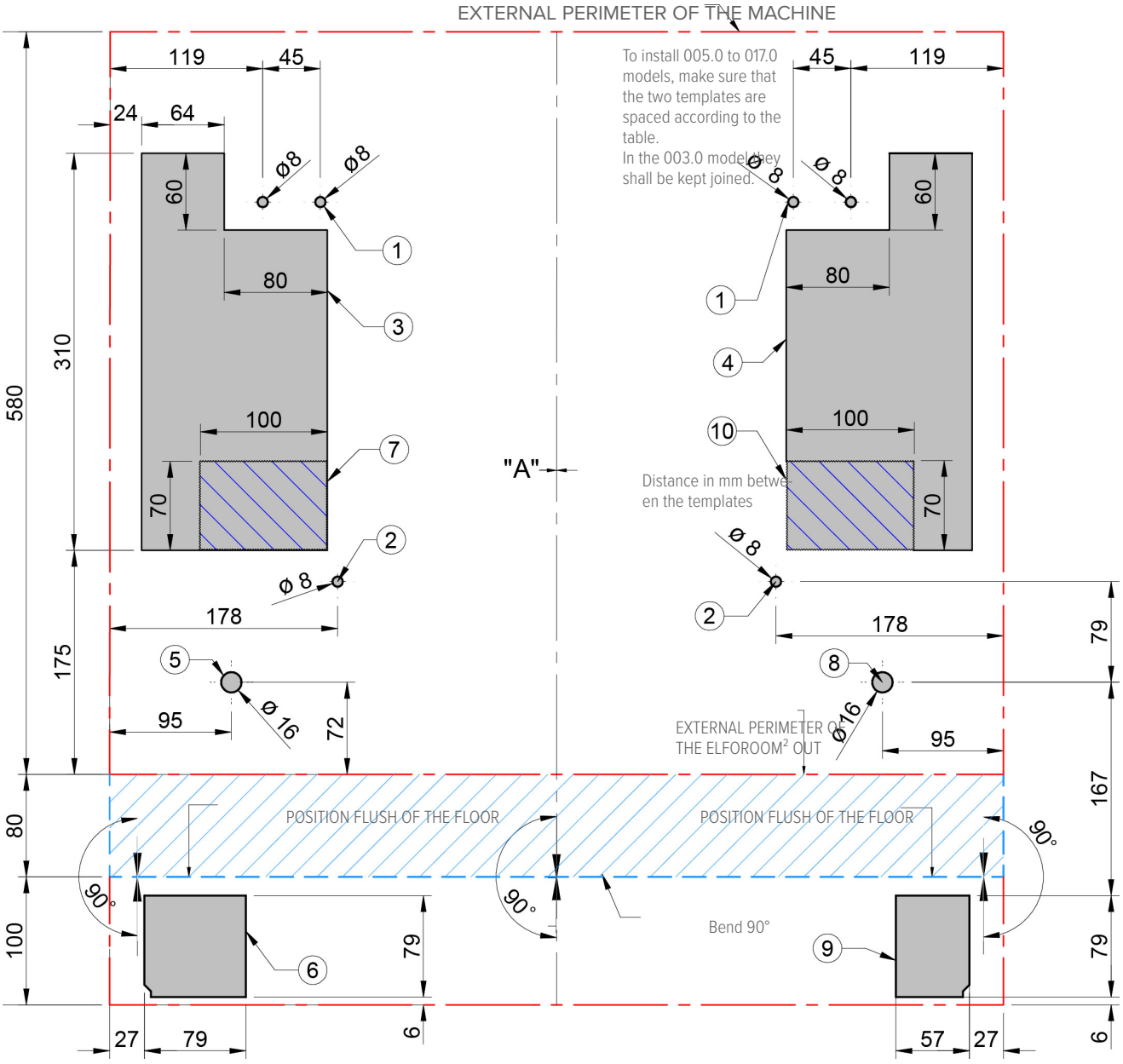
Uncased version



1. Air intake removable filter
2. Electrical panel
3. Water inlet, Eurokonus 3/4" F
4. Water outlet, Eurokonus 3/4" F
5. Additional coil water inlet 3/4" F (4 pipe-installation)
6. Additional coil water outlet 3/4" F (4 pipe- installation)
7. Condensate drain (Ø 14 mm)

ELFORoom²		003.0	005.0	011.0	015.0	017.0
A	mm	527	727	927	1127	1327
B	mm	130	130	130	130	130
C	mm	650	650	650	650	650
Operating weight	kg	10	13	17	20	24
Shipping weight	kg	11	14	18	21	25

ELFORoom² CC2



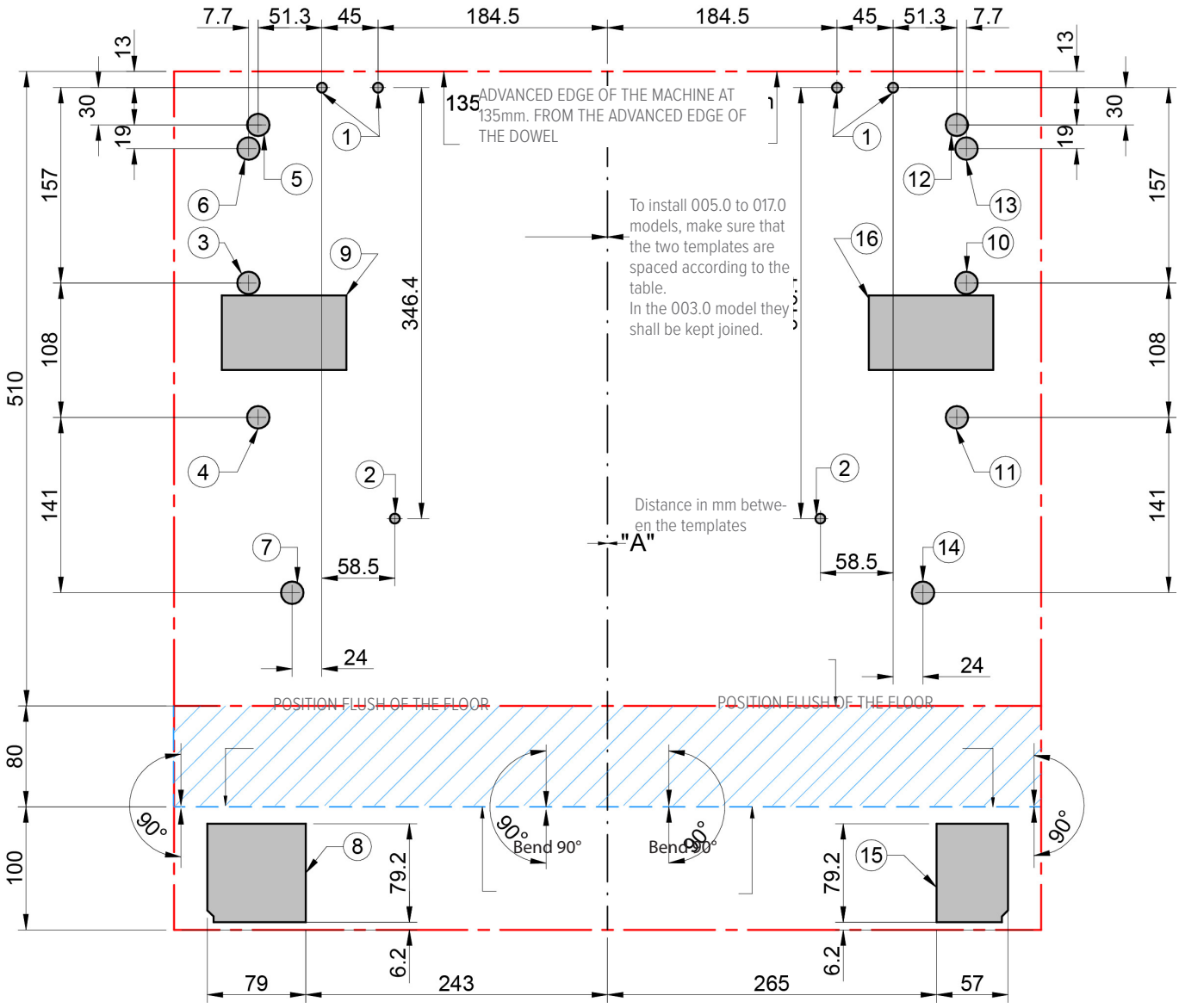
	Legenda
1	holes for dowels
2	hole for dowel horizontal position
3	hydraulic wall connections zone with flexible pipers (standard on left)
4	hydraulic wall connections zone with flexible pipers (on right)
5	condensate drain for installation on left
6	area for pipe passage from the floor (on the left)
7	electrical box for hydraulic connectors (on the right)
8	condensate drainfor installation on right
9	area for pipe passage from the floor (on the right)
10	electrical box for hydraulic connectors (on the right)

Unit	Size	A (mm)
ElfoRoom²	003.0	-
ElfoRoom²	005.0	200
ElfoRoom²	011.0	400
ElfoRoom²	015.0	600
ElfoRoom²	017.0	800

To install 005.0 to 017.0 models, make sure that the two templates are spaced according to the table.
In the 003.0 model they shall be kept joined.

Pattern for installation

ELFORoom² CC4

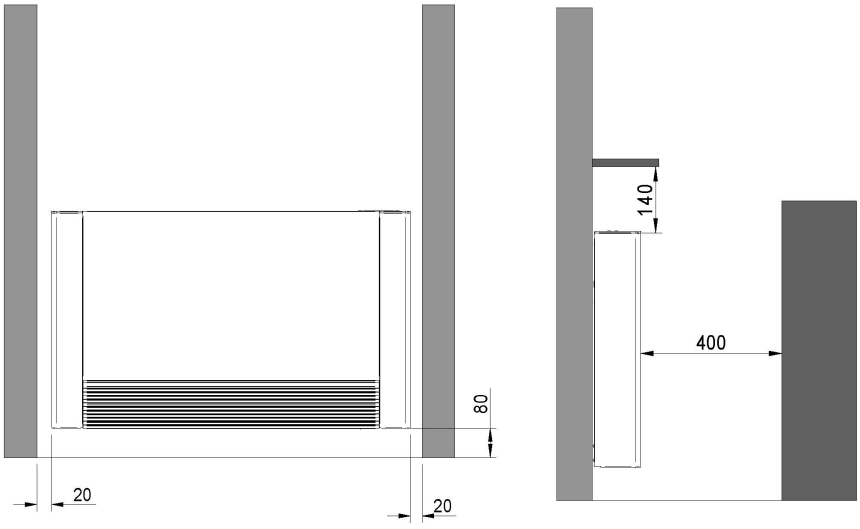


	Key		
1	holes for dowels Ø 8 mm	9	electrical box for hydraulic connectors (on the right)
2	hole for dowel horizontal position Ø8mm	10	inlet position for installation on right with 3-way valve(with 90° elbow)
3	inlet position for installation on left with 3-way valve(with 90° elbow-standard coil)	11	outlet position for installation on right with 3-way valve(with 90° elbow)
4	outlet position for installation on left with 3-way valve(with 90° elbow-standard coil)	12	inlet position for installation on right with 3-way valve(with 90° elbow-additional coil)
5	inlet position for installation on left with 3-way valve(with 90° elbow-additional coil)	13	outlet position for installation on right with 3-way valve(with 90° elbow-additional coil)
6	outlet position for installation on left with 3-way valve(with 90° elbow-additional coil)	14	condensate drain for installation on right
7	condensate drainfor installation on left	15	area for pipe passage from the floor
8	area for pipe passage from the floor	16	electrical box for hydraulic connectors (on the left)

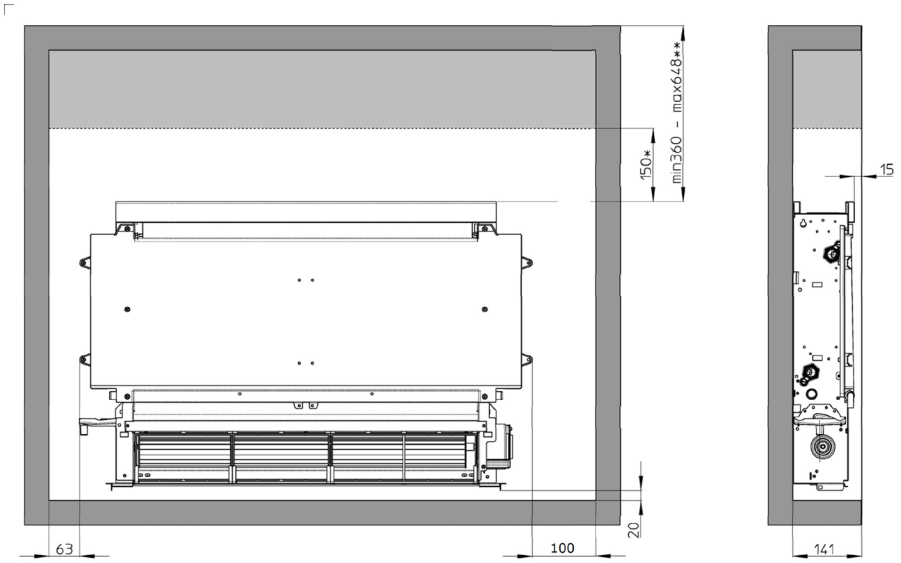
Unit	GR	A (mm)
ElfoRoom²	003.0	-
ElfoRoom²	005.0	200
ElfoRoom²	011.0	400
ElfoRoom²	015.0	600
ElfoRoom²	017.0	800

To install 005.0 to 017.0 models, make sure that the two templates are spaced according to the table.
In the 003.0 model they shall be kept joined.

Uncased version



Cased version



Minimum distances to follow for correct operation and routine maintenance.
*= Dimensions to follow to assemble the 90° insulated supply plenum kit, code PR90MX
*= Dimensions to follow to assemble the telescopic upper supply plenum kit, code PMSTX

Description per specification

Specification description of Elforoom^2 OUTVL/IN-MOD version

Supply and installation of fan-coil with a autonomous built in control system. It consists of a high efficiency copper and aluminium exchange coil with a finned heating element fitted with a spindle; supporting load-bearing structure made with electrogalvanised sheet steel; a PVC shock-proof condensate tray and rear panel made with sound-absorbing material. Tangential fan unit made with synthetic material and fitted with staggered fins (top silence levels) with continuous modulating DC brushless motor mounted on EPDM antivibration supports; drop-down painted aluminium return grille made with removable filter made with tight-knit synthetic mesh; shooting grid opens door in painted aluminium with removable air filter polypropylene mesh with weighted efficiency to 48% gravimetric method, complete casing in steel sheet painted with epoxy RAL 9003; upper grille with adjustable fins and set-up control panel of with ambient thermostat (summer/winter) and LED to report the set-up functions. 3/4” LH and RH Eurokonus hydraulic connections..

Specification description of Elforoom^2 OUTVOT/MOD version

Supply and installation of an uncased fan-coil with a control system for the connection to the wall thermostat. It consists of a high efficiency copper and aluminium exchange coil with a finned heating element fitted with a spindle; supporting load-bearing structure made with electrogalvanised sheet steel; a PVC shock-proof condensate tray and rear panel made with sound-absorbing material. Tangential fan unit made with synthetic material and fitted with staggered fins (top silence levels) with continuous modulating DC brushless motor mounted on EPDM antivibration supports; drop-down painted aluminium return grille made with removable filter made with tight-knit synthetic mesh; full casing made with oven-painted sheet steel with RAL 9003 epoxy powder; upper grille with adjustable fins and control panel with ON/OFF key and LED to report dirty filters and if there is an alarm. 3/4” LH and RH Eurokonus hydraulic connections. Supply and installation of an uncased fan-coil with a control system for the connection to the wall thermostat. It consists of a high efficiency copper and aluminium exchange coil with a finned heating element fitted with a spindle; supporting load-bearing structure made with electrogalvanised sheet steel; a PVC shock-proof condensate tray and rear panel made with sound-absorbing material. Tangential fan unit made with synthetic material and fitted with staggered fins (top silence levels) with continuous modulating DC brushless motor mounted on EPDM antivibration supports; drop-down painted aluminium return grille made with removable filter made with tight-knit synthetic mesh; full casing made with oven-painted sheet steel with RAL 9003 epoxy powder; upper grille with adjustable fins and control panel with ON/OFF key and LED to report dirty filters and if there is an alarm. 3/4” LH and RH Eurokonus hydraulic connections.

Specification description of Elforoom^2 INVOT/MOD version

Supply and installation of a built-in fan-coil with a control system for the connection to the wall thermostat. It consists of a high efficiency copper and aluminium exchange coil with a finned heating element fitted with a spindle; supporting load-bearing structure made with electrogalvanised sheet steel; a PVC shock-proof condensate tray and rear panel made with sound-absorbing material. Tangential fan unit made with synthetic material and fitted with staggered fins (maximum silence) with continuous modulating DC brushless motor mounted on EPDM antivibration supports and removable filter made with tight-knit synthetic mesh. 3/4” LH and RH Eurokonus hydraulic connections. Supply and installation of a built-in fan-coil with a control system for the connection to the wall thermostat. It consists of a high efficiency copper and aluminium exchange coil with a finned heating element fitted with a spindle; supporting load-bearing structure made with electrogalvanised sheet steel; a PVC shock-proof condensate tray and rear panel made with sound-absorbing material. Tangential fan unit made with synthetic material and fitted with staggered fins (maximum silence) with continuous modulating DC brushless motor mounted on EPDM antivibration supports and removable filter made with tight-knit synthetic mesh. 3/4” LH and RH Eurokonus hydraulic connections.

Specification description of Elforoom^2 OUTRAD/IN-MOD version

Supply and installation of fan-coil with a autonomous built in control system. It consists of a high efficiency copper and aluminium exchange coil with a finned heating element fitted with a spindle; supporting load-bearing structure made with electrogalvanised sheet steel; a PVC shock-proof condensate tray and rear panel made with sound-absorbing material. Tangential fan unit made with synthetic material and fitted with staggered fins (top silence levels) with continuous modulating DC brushless motor mounted on EPDM antivibration supports; drop-down painted aluminium return grille made with removable filter made with tight-knit synthetic mesh; shooting grid opens door in painted aluminium with removable air filter polypropylene mesh with weighted efficiency to 48% gravimetric method, complete casing in steel sheet painted with epoxy RAL 9003; upper grille with adjustable fins and set-up control panel of with ambient thermostat (summer/winter) and LED to report the set-up functions. Ventilated radiant plate made up low-consumption micro-fans that send hot air, coming from the heat exchanger, towards the inside of the front panel.3/4” LH and RH Eurokonus hydraulic connections.

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