AERMEC
La prima per il clima

TECHNICAL MANUAL

FAN COIL

FCX

Plasmacluster™

AERMEC
COMPANY QUALITY SYSTEM
ICIM
ISO 9001 - Cert. n° 0128/4
CISQ IQNet
AERMEC S.P.A.

EUROVENT
CERTIFIED PERFORMANCE

CE

IFCXTY
0806
6191101_00

Replace : 64560.41_01 / 0308

INDEX

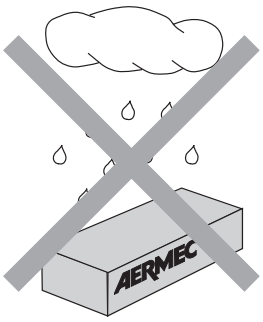
REMARKS

Store the manuals in a dry location to avoid deterioration, as they must be kept for at least 10 years for any future reference.
All the information in this manual must be carefully read and understood. Pay particular attention to the operating standards with “DANGER” or “WARNING” signals as failure to comply with them can cause damage to the machine and/or persons or objects.
If any malfunctions are not included in this manual, contact the local After-sales Service immediately.
The apparatus must be installed in such a way that maintenance and/or repair operations are possible.
The apparatus's warranty does not in any case cover costs due to automatic ladders, scaffolding or other lifting systems necessary for carrying out repairs under guarantee.
Normal wear of components and filter is not covered by the warranty.
AERMEC S.p.A. declines all responsibility for any damage whatsoever
caused by improper use of the machine, and a partial
or superficial acquaintance with the information contained in this manual.

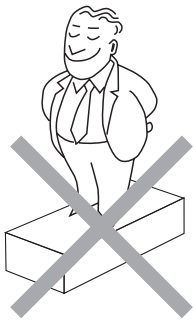
The number of pages in this manual is: 76.

TRASPORTO • CARRIAGE • TRANSPORT • TRANSPORT • TRANSPORTE

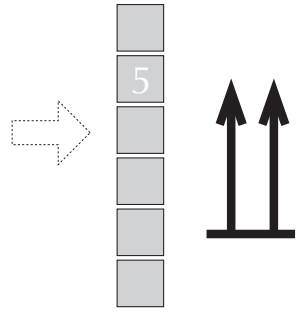
NON bagnare • Do NOT wet
CRAINT l'humidité • Vor Nässe schützen
NO mojar

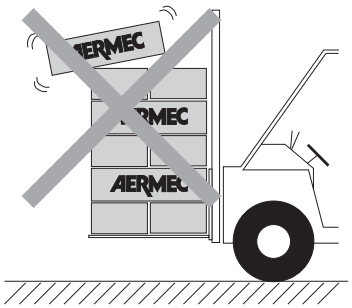


NON calpestare • Do NOT trample
NE PAS marcher sur cet emballage • Nicht betreten
NO pisar



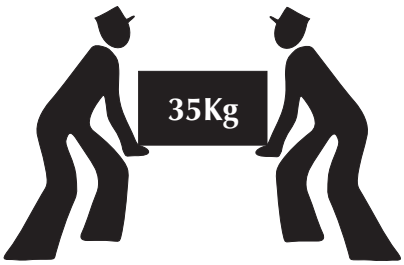
Sovrapponibilità: controllare sull'imballo la posizione della freccia per conoscere il numero di macchine impilabili.
Stacking: control the packing for the arrow position to know the number of machines that can be stacked.
Empilement: vérifier sur l'emballage la position de la flèche pour connaître le nombre d'appareils pouvant être empilés.
Stapelung: Anhand der Position des Pfeiles an der Verpackung kontrollieren, wieviele Geräte stapelbar sind.
Apilamiento: observe en el embalaje la posición de la flecha para saber cuántos equipos pueden apilarse.





NON lasciare gli imballi sciolti durante il trasporto.
Do NOT leave loose packages during transport.
ATTACHER les emballages pendant le transport.
Die Verpackungen nicht ungesichert transportieren.
NO lleve las cajas sueltas durante el transporte.

NON trasportare la macchina da soli se il suo peso supera i 35 Kg.
DO NOT handle the machine alone if its weight is over 35 Kg.
NE PAS transporter tout seul l'appareil si son poids dépasse 35 Kg.
Das Gerät NICHT alleine tragen, wenn sein Gewicht 35 Kg überschreitet.
NO maneje los equipos en solitario si pesan más de 35 kg.



SIMBOLI DI SICUREZZA • SAFETY SYMBOL • SIMBOLES DE SECURITE SICHERHEITSSYMBOLE • SÍMBOLOS DE SEGURIDAD

Pericolo:
Tensione

Danger:
Power supply

Danger:
Tension

Gefahr !
Spannung

Peligro:
Tensión

Pericolo:
Organi in movimento

Danger:
Movings parts

Danger:
Organes en mouvement

Gefahr !
Rotierende Teile

Peligro:
Elementos en movimiento

Pericolo!!!

Danger!!!

Danger!!!

Gefahr!!!

Peligro!!!

WARNING: The fancoil is connected to the power supply and a water circuit. Operations performed by persons without
the required technical skills can lead to personal injury to the operator or damage to the unit and surrounding objects.
DANGER: never switch the appliance on without having re/mounted the fan coil casing.
The ultra-violet radiation emitted from the bulbs inside is dangerous and can cause conjunctivitis, burns and dermatitis.
The device has safety micro switches that prevent functioning if the casing and filter are missing.

DANGER: do not tamper with the micro switches as this would make functioning of the fan coil unsafe..

FUNCTIONING ANOMALIES

In the case of functioning anomalies, remove the voltage from the unit and then re-apply it and re-start the appliance. If the problem persists, call the area after-sales service immediately.

ONLY POWER THE FAN COIL USING 230 VOLT, SINGLE-PHASE, 50 Hz

The fan coil may undergo permanent damage if different electric power supplies are used.

DO NOT PULL THE ELECTRIC CABLE

It is very dangerous to pull, step on, crush or fix the electric power supply cable using nails or staples.
The damaged cable can cause short circuits and injury to persons.

DO NOT INTRODUCE OBJECTS INTO AIR VENTS

Do not introduce any type of object into the air outlet slots.
This could cause injury to persons or damage the fan.

NEVER USE THE FANCOIL FOR APPLICATIONS FOR WHICH IT WAS NOT DESIGNED

Do not use the fancoil in husbandry applications (e.g. incubation).

AIR THE ROOM

Periodically air the room in which the fancoil has been installed; this is particularly important if the room is occupied by many people, or if gas appliances or sources of odours are present.

CORRECTLY ADJUST THE TEMPERATURE

Room temperature should be regulated to ensure maximum comfort to persons present, particularly in the case of the elderly, infants and invalids. Prevent temperature fluctuations between indoors and outdoors greater than 7 °C during summer.
Note that very low temperatures during summer will lead to greater electricity consumption.

ORIENT AIR FLOW CORRECTLY

Air delivered by the fancoil should not be oriented directly at people; even if air temperature is greater than room temperature, it can cause a cold sensation and consequently discomfort.

DO NOT USE HOT WATER

When cleaning the indoor unit, use rags or soft sponges soaked in warm water (no higher than 40°C).

Do not use chemical products or solvents to clean any part of the fancoil.

Do not splash water on interior or exterior surfaces of the fancoil; danger of short circuit.).

PERIODICALLY CLEAN THE FILTER

Frequent cleaning of the filter will ensure more efficient unit operation.
Check whether the filter requires cleaning; if it is particularly dirty, clean it more often.
Clean the filter frequently. Use a vacuum cleaner to remove built up dust.
After cleaning and drying the filter, fit it on the fancoil by following the removal procedure in reverse order.
The normal wear of the germicidal lamp and of the filter are not covered by warranty.

SPECIAL CLEANING

The removable drip tray and fan volute ensure thorough cleaning of the unit (by specifically trained personnel), essential for installations in venues subject to crowding or in those with special hygiene requirements.

IT IS NORMAL

During cooling, water vapour may be present in the air delivery of the fan coil.

In the heating function it might be possible to hear a slight hiss around the fan coil. Sometimes the fan coil might give off unpleasant smells due to the accumulation of dirt in the air of the environment (especially if the room is not ventilated regularly, clean the filter more often).

During the operation, there could be noises and creaks inside the device, due to the various heat expansions of the elements (plastic and metallic), but this does not indicate any malfunctioning and does not cause damage to the unit unless the maximum input water temperature is exceeded.

FCX - - FAN COIL

Congratulations on your purchase of the Aermec FCX fan coil.
Made with materials of superior quality in strict compliance with safety regulations, the "FCX " is easy to use and will have a long life.

The fan coil units treat room air during summer and winter seaqsons.

The **FCX** fan coil concentrates high technological and functional characteristics that make it the ideal climate control unit for all types of rooms. The supply of climate controlled air is immediate and distributed throughout the room;; **FCX** generates heat if included in a heating system with boiler or heat pump but may also be used in summer as an air conditioner if the heating system has a water chiller..

The removable drip tray and fan volute ensure thoroug cleaning of the unit essential for installations in venues subject to crowding or in those with special hygiene requirements.

The quietness of the new centrifugal fan assembly is such that at normal speed of use you cannot hear when the FCX cuts in.

The **FCX** fan coil has been designed to meet all system requirements thanks to its extensive range of accessories.

The AERMEC fan coil versions without control panels can be combined to an AERDOMUS central control unit.

Full respect for accident prevention regulations

English

VERSION

SIZES AVAILABLE

The FCX fan coil series are avaailable in

with 3 row coil

9 versions for 8 sizes

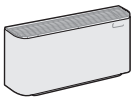
FCX 17 (*)
FCX 22
FCX 32
FCX 42
FCX 50
FCX 62
FCX 82
FCX 102 (**)

with 4-row coil battery

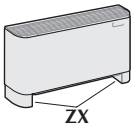
2 version P and PO for 6 sizes

FCX 24
FCX 34
FCX 44
FCX 54
FCX 64
FCX 84

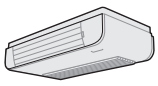
(*) FCX 17 not available in UE, PE and PO versions .
(**) FCX 102 not available in PO versions .



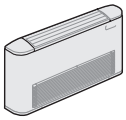
FCX A - AS - ACB - ACT - APC

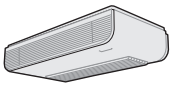


ZX

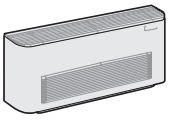


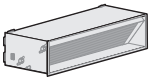
FCX 17 ÷ 50 U - UE



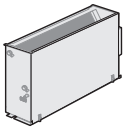


FCX 62 ÷ 102 U - UE





FCX P - PPC - PO - PE



FCX_A: with selector and a 3 speed fan unit, free standing for vertical installation coated with anti rust polyester, colour RAL 9002. The delivery grill and the skirting for floor standing installations (accessory ZX) are made of plastic and are colour RAL 7044.

FCX_AS: without control panels and with a 3 speed fan unit, free standing for vertical installation coated with anti rust polyester, colour RAL 9002. The delivery grill and the skirting for floor standing installations (accessory ZX) are made of plastic and are colour RAL 7044. An external control panel is necessary (accessory).

FCX_ACB: with an electronic thermostat and a 3 speed fan unit free standing for vertical installation coated with anti rust polyester, colour RAL 9002. The delivery grill and the skirting for floor standing installations (accessory ZX) are made of plastic and are colour RAL 7044.

FCX_ACT: with an electronic multifinction thermostat and a 3 speed fan unit, free standing for vertical installation coated with anti rust polyester, colour RAL 9002. The delivery grill and the skirting for floor standing installations (accessory ZX) are made of plastic and are colour RAL 7044.

FCX_APC: with a PLASMACLUSTER ionizing filter, with an electronic multifinction thermostat and a 3 speed fan unit free standing for vertical installation coated with anti rust polyester, colour RAL 9002. The delivery grill and the skirting for floor standing installations (accessory ZX) are made of plastic and are colour RAL 7044..

FCX_U: without control panels and with a 3 speed fan unit, free standing for vertical installation coated with anti rust polyester, colour RAL 9002. The delivery grill and the skirting for floor standing installations (accessory ZX) are made of plastic and are colour RAL 7044. An external control panel is necessary (accessory)..

FCX_UE: with direct expansion coil, without control panels and with a 3 speed fan unit, free standing for vertical installation coated with anti rust polyester, colour RAL 9002. The delivery grill and the skirting for floor standing installations (accessory ZX) are made of plastic and are colour RAL 7044. An external control panel is necessary (accessory).

FCX_P: version in galvanised steel without cabinet, without control panels and with a 3 speed fan unit, for horizontal and vertical wall installation. An external control panel is necessary (accessory).

FCX_PE: with direct expansion coil, version in galvanised steel without cabinet, without control panels and with a 3 speed fan unit, for horizontal and vertical wall installation. An external control panel is necessary (accessory).

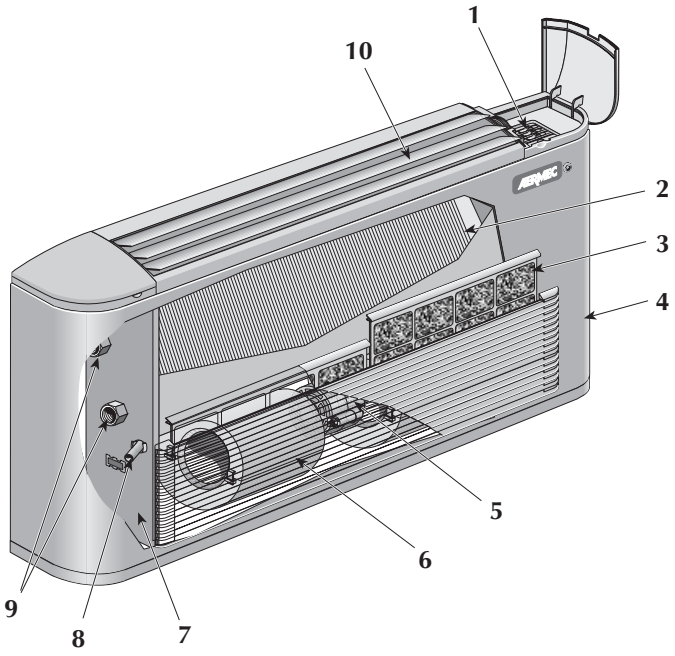
FCX_PPC: with a PLASMACLUSTER ionizing filter, version in galvanised steel without cabinet, without control panels and with a 3 speed fan unit, for horizontal and vertical wall installation. An external PXAE control panel is necessary (accessory).

FCX_PO: version in galvanised steel without cabinet, without control panels and with a 7 speed fan unit, for horizontal and vertical wall installation. An external control panel is necessary (accessory).

COMPONENTI PRINCIPALI

1 Control panel (accessory)
2 Thermic exchange coil
3 Air Filter
4 Cover cabinet (RAL9002)
5 Fan motor
6 Fan
7 Main Frame
8 Condensate pump
9 Hydraulic connections
10 Head with adjustable fins (RAL7044)

FCX 42 U



English

DESCRIPTION OF COMPONENTS

CONTROL PANEL

The control panel is located under the grill positioined at the right of the fan coil.In A, AS, ACB, ACT, APC and U (62U, 82U e 102U) versions, the panel can be protected from tampering by using a screw to block the cover door.
In the AS and U versions, the controls panel (accessory) can be installed on the fan coil or on the wall.
In versions P, PO and PE, the controls panel (accessory) can be installed only on the wall.
The AERMEC fan coil versions without control panels can be combined to a HSH AERDOMUS central control unit with or without connection cables.

Before selecting, consult the control panels features.

FCX A

WITH MANUAL SELECTORS :

fan coil equipped with control panel for use and selcting the fan speed.

FCX ACT e APC

WITH ELECTRONIC MULTIFUNCTION THERMOSTAT :

fan coils equipped with multifunction electronic thermostat control panels, the fan coils FCX ACT and FCX APC are supplied ready for use with standard configuration, but the installer can adapt them the special requirements of the system with the appropriate accessories and personalising the functions by acting on the internal Dip-Switch.
The controls are prompt but if valves are presence they could delay.

System types

The FCX-ACT fan coils have been designed for systems with 2 pipes, in the following versions:
- without valve;
- with water valve (VCF);
- with electrical resistance (RX);
- with electrical resistance (RX) and valve (VCF);
- with hot water battery (BV) and 2 valves (VCF).

FCX APC : fancoils with PLASMACLUSTER designed for 2-pipes plant, in the following models:
- without valve;
- with water valve (VCF);

Ventilation

The three-speed ventilation can be controlled either manually or automatically.
For systems with valve and Water Probe installation upstream of the valve there may be a delay (delayed ventilation up to 2'40" max) between the valve start-up and the fan activation (exchanger pre-heating).
- manually with the selector in V1, V2 e V3 position (the fan coil is used with on off cycles on selected speed);
- automatically with the selector in AUTO position (the fan speed is controlled by the thermostat according to the room temperature)

Change over

The thermostat automatically changes over from Heating/cooling mode.
Change over is based on the water temperature detected in the system. It is possible to choose between two change over modes by changing the settings on the DIP switch :
- only minimum/maximum temperature control;
- with minimum/maximum temperature control and the preheating of the coil (fan delayed for a maximum of 2'40").

Only systems with water probes positioned downstream of the valve or with a two way valve, change over occurs on the air side by acting on the temperature selector; this setting allows the fan coil to be used in systems with two way valves but is not advised because it reduces the use of the electronic thermostat (the heating/cooling modes displayed by the led are altered depending on the selected temperature and of the air temperature in the environment.

Water temeperature controls

The thermostat enables ventilatsolamenteon only if the water temperature is suited to Hetaing or Cooling mode.
The enabling threshold is 35°C or 39°C for Heating and 17°C or 22°C for Cooling and can be configured by the Dip-Switch.
The control panels signal the situation when the water temperature is not adequate to the function mode set by means of the alternate flashing of the pink C led with red or blue depending on the relative active modes.

If a three way valve is inserted with a water probe as per standard, it must be replaced with the SW3 accessory in which the bulb must be positioined on

the delivery pipe upstream of the valve.

Valve control

The valve can be controlled in two ways::

- **optimised**: uses the fan coil capacity in Heatingto produce heat even with ventilation off and in Cooling for a continuous ventilation controlling the room temperature by means of a valve;
- **normal**: the valve opens and closes in correspondance with the switch on and switch off of the fan coil.

Emergency mode

In case of probe troubleshooting SA, the thermostat enters in emergency mode, indicated by a flashing led (D) yellow. In this condition the thermostat behaves as follows::

- with selector (A) in OFF position the water valave is closed and the fan is off.
- with selector (A) in AUTO position, V1, V2 and V3 the water valve is always open and the fan performs on off cycles; in this situation, the power provided by the terminal is manually controlled by selcetor (B): turning towards the right the duration of the On cycle increases; turningn towards the left it reduces.

FCX ACB

WITH SIMPLIFIED ELECTRONIC THERMOSTAT:

fan coil equipped with control panel with electronic room thermostat for controlling switch on and switch off of the fan.

The control panel controls the function of the fan coil in order to maintain the set room temperature. It allows the electronic adjustment of the temperature, manual speed change on the fan,manual function selection in Heating or Cooling mode (manual change over).

The room probe temperature is located bext to the "AERMEC" plate.

It is not possible to couple the thermostat with a water temperature probe.

If the power supply is cut, the fan coils restarts resetting the previous modes set

The controls are prompt if the room temperature allows it. Water temperature control of the system is not foreseen

Type of system

The fan coil series FCX ACB are designed for two pipe systems :

- without valve;
- with water valve (VCF);

Ventilation

The 3 speed fan is manually controlles with a selector positioned in V1, V2 and V3 (the fan is used with on off cycles on the speed selected).

Change over

Change over is manual, the user selects the function mode (Heating or Cooling) by acting on the selector of the controls panel.

Valve control

The valve (accessory) opens or closes in correspondance with the switching on and switching off of the fan .

HEAT EXCHANGE COIL

Coil with copper pipe and finned in blocked aluminium by means of mechanical expansion pipes The collectors are attached with female connectors and air relief at the top of the coil.

FILTER SECTION

Easily removable and built with regenerised materialsand can be cleaned by washing

Versions P and PO filters with filtration class G2.

CABINET CASE

Colour RAL9002

Delivery and Intake grill colour RAL7044

The steel case is treated and coated with powered polyester to guarantee high rust resistance and corrosion.

Versions A, AS, ACT, APC, ACB : are inserted with grills on the top in thermo plastic material for the diffusion of air and with a door for accessing the control panel.

Version U, UE : are inserted with adjustable grills on the top in thermo plastic material for the diffusion of air and with a door for accessing the control panel. With the adjustable grill closed, intervening on the micro switch stops the fan, interrupting any heat change with the room. The cabinet has a front grill in thermoplastic material for air intake. .

ELECTRO FAN UNIT

It is made up of double inlet centrifugal fans with blades along its length for obtaining a high capacity with a low number of revs. The electric motor protects from over loads, it is three speed with condenser always inserted, directly coupled with the fans and with elastic supports. The FCX PO versions have 7 speed motors. (3 selections) .

SUPPORT STRUCTURE

Made from thick galvanised steel The rear has holes for fitting the appliance to the wall For wall panels, a panel for closing the fan group is provided. Each appliance is supplied with a condensate drain tray

CONDENSATE DRAIN

Each appliance is supplied with a condensate drain tray connected to the condensate outlet produced from the unit id cooling mode.

HYDRAULIC CONNECTIONSI

The connections, positioned on the left side have female attachments. It is possible to rotate the coil.

PACKING

The units are shipped in cardboard box standard packing and polystirene shells.

The versions with high cabinet (A, AS, ACB, ACT and APC) have intake from below and can be used for vertical wall-hung or floor installation using the relevant skirting (accessory ZX). The accessory SE (external air damper) where requested, also allows, to change the environment air.

The versions with universal cabinet (U and UE) have front intake and can be vertically wall-hung or installed horizontally on the ceiling.

The suspended versions (P, PPC, PO and PE), without cover cabinets and intake from below, are suitable for vertical or horizontal installation.

In the case of ducted installations where the loss of load of the channel is relevant, the PO version (with multi-speed enhanced motor) allows to obtain the static pressure necessary to guarantee a correct air flow rate.

The PO version is available with coils with 3 and 4 rows.

The AS, U, UE versions require coupling with a control panel to be applied inside or outside, consult the features and the compatibility of the control panels supplied as accessories.

The P, PE and PO require coupling with a control panel to be applied outside, consult the features and the compatibility of the control panels supplied as accessories.

The PPC version must be coupled to panel PXA E.

The other versions of fan coil are supplied with incorporated control panel.

Some control panels can control a network of fan coils if they are combined with the SIT3 and SIT5 interface board supplied as an accessory.

In the versions without control panels, the AERMEC fan coils can all be coupled to the centralised HSH AERDOMUS control system with wired or wireless connection.

The main technical data of the FCX are summarised in the tables.

The sensitive and total cooling capacity at maximum speed depending on the temperature of the inlet water, its heat drop and the dry and wet bulb temperatures of the air respectively for sensitive capacity and total capacity for the versions with coils with 3 rows are stated in the table. The efficiency at average and minimum speed is obtained by multiplying the table values by the corrective factors indicate. For the versions with 4 rows, they are obtained by multiplying the table values by the corrective factors indicated for every speed.

The water side pressure drop for the coils with 3, 1 and 4 rows is respectively stated in the graphics.

The correction factors in functioning with glycoled water in cooling mode and in heating mode are stated in the graphics per percentages of glycol of 10%, 20% and 35%.

The heating capacity of the coils with 3, 4 and 1 row (accessory BV) depending on the water flow rate and the temperature difference between inlet water and inlet air is stated in a graphical form and is referred at maximum speed. Performance at average and minimum speed is obtained by multiplying the values obtained from the graphics at maximum speed by the indicated corrective factors.

The sensitive and total cooling capacities of the direct expansion coils (FCX PE) depending on the evaporation temperature and the dry and wet bulb temperatures of the air entering are stated in the graphical form respectively for total and sensitive capacity and are stated at maximum speed. Performance at average and minimum speed is obtained by multiplying the values obtained from the graphics at maximum speed by the indicated corrective factors.

For the ducted, suspended versions (P-PE-PO) the performance stated above must be intended as referring to air flow rates equal to those of corresponding models of other versions (A-U) at maximum speed (nominal flow rate).

The head of the suspended versions, depending on the air flow rate and fan speed, are stated in table form. The curves are indicated for every speed.

For dimensioning of the ducted, suspended versions, it is recommended to proceed as follows: select the size which, in nominal flow rate conditions, have immediate power that is higher than that requested; trace the curve of the channel pressure drop on the flow rate-static pressure diagram relative to the machine in question, thus identify the functioning points of the machine at the different speeds. On the basis of the flow rate values corresponding to the above-mentioned points, the corrective factors are finally obtained that allow to calculate the power yielded in real air flow conditions. The above-mentioned procedure allows, in the case of multi-speed versions, to appropriately choose the speed to be set.

The sound power and sound pressure level of the fan coils at the various speeds is stated in separate tables for the versions with 3 rows and versions with 4 rows. For ducted, suspended versions, the sound power level is expressed depending on the air flow rate and static pressure and is represented using graphics.

A wide range of accessories is available for FCX series fan coils, sometimes some of them cannot be used at the same time. The compatibility of the accessories with the selected fan coil must be checked. The manual contains the description, drawing and compatibility of each accessory.

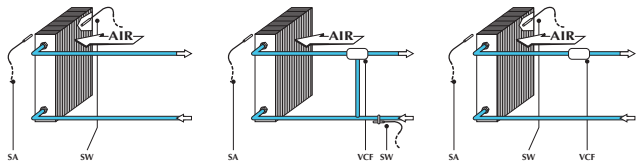
The information regarding installation is inserted in the manual supplied with every fan coil and every accessory. This manual is limited to general information in order to perform correct installation. There are also drawings with dimensions of the fan coils and wiring diagrams with connections to the control panels.

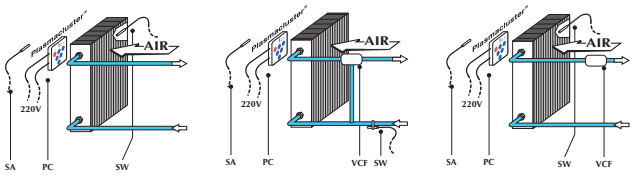
FCX UNIT LAY-OUT

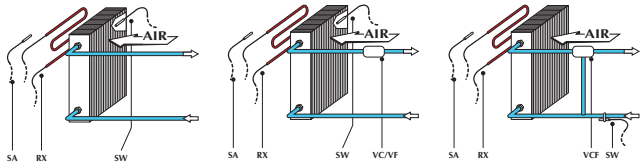
Reading Key:

SW	Water temperature probe
VCF	Solenoid valve (Heating / Cooling)
VC	Solenoid valve (Heating),
VF	Solenoid valve (Cooling)
SA	Ambient temperature probe
V3,V2,V1	Maximum, Average, Minimum Fan Coil speed.
RX	Resistance
PC	Plasmacluster

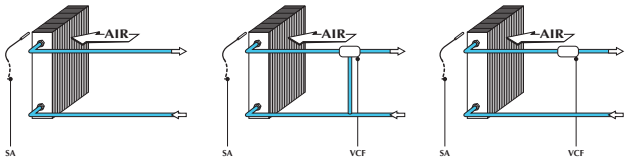
2-pipe unit with water probe

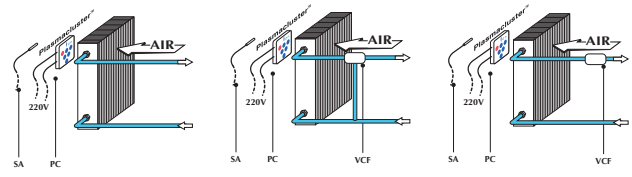


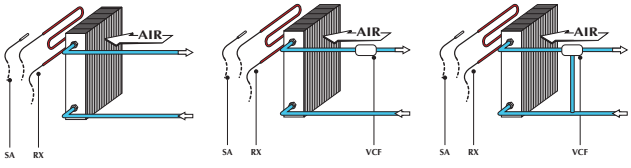




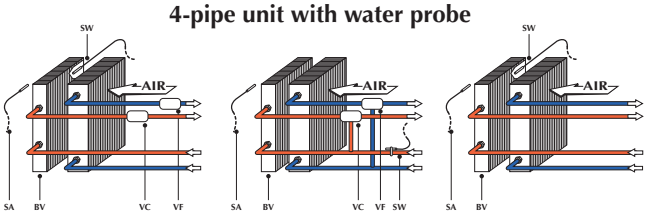
2-pipe unit without water probe



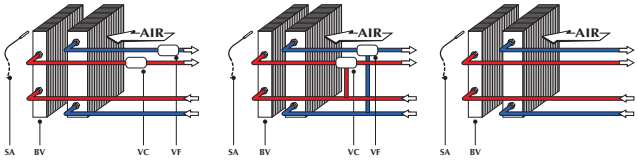




4-pipe unit with water probe



4-pipe unit without water probe



English

FCX A-AS-ACT-APC-ACB-U-P with 3-row coil

Mod.		FCX 17	FCX 22	FCX 32	FCX 42	FCX 50	FCX 62	FCX 82	FCX 102
Heating									
Heating capacity	W (max.)	2490	3400	4975	7400	8620	12920	15140	17020
	W (med.)	2070	2700	4085	6415	7530	10940	13350	15240
	W (min.)	1610	1915	3380	5115	5420	8330	10770	12560
Heating capacity* (water inlet 50°C)	W ***(E)***	1360	2100	3160	4240	4900	6460	7990	9670
Heating capacity (accessory RX)	W	700	950	1300	1650	1950	2200	2200	2200
Water flow rate	l/h	214	292	427	636	741	1110	1300	1464
Water pressure drop	kPa	2,8	6,3	14,2	14,1	14,2	14,8	19,8	16,6
Cooling									
Total cooling capacity	W (max.) ***(E)***	1000	1500	2210	3400	4190	4860	7420	7620
	W (med.)	890	1330	2055	2800	3640	4660	5500	7140
	W (min.)	720	1055	1570	2310	2840	3950	4710	6270
Sensible cooling capacity	W (max.) ***(E)***	830	1240	1750	2760	3000	3980	5680	5980
	W (med.)	710	1055	1540	2115	2750	3510	4250	4984
	W (min.)	540	755	1100	1635	2040	2825	3450	4263
Water flow rate	l/h	172	258	380	585	721	836	1276	1311
Water pressure drop	kPa ***(E)***	2,6	5,8	16,6	14,3	19,3	11,6	13,5	19,2
Air flow rate	m^3/h (max.)	200	290	450	600	720	920	1140	1300
	m^3/h (med.)	160	220	350	460	600	720	930	1120
	m^3/h (min.)	110	140	260	330	400	520	700	900
Fans	n.	1	1	2	2	2	3	3	3
♪ Sound pressure	dB (A) (max.)	36,5	41,5	39,5	42,5	47,5	48,5	53,5	57,5
	dB (A) (med.)	29,5	34,5	32,5	35,5	42,5	42,5	48,5	52,5
	dB (A) (min.)	22,5	22,5	25,5	28,5	33,5	33,5	41,5	47,5
Sound power	dB (A) (max.) ***(E)***	45	50	48	51	56	57	62	66
	dB (A) (med.) ***(E)***	38	43	41	44	51	51	57	61
	dB (A) (min.) ***(E)***	31	31	34	37	42	42	50	56
Water contents	l	0,58	0,79	1,11	1,48	1,48	2,52	2,52	2,52
Max. motor power	W ***(E)***	35	25	44	57	67	82	106	131
Max. input current	A	0,16	0,12	0,21	0,28	0,35	0,40	0,49	0,58
Max. motor power with electric heater	W	735	975	1344	1707	2017	2282	2306	2331
Input current with electric heater	A	3,2	4,25	5,86	7,45	8,83	9,97	10,06	10,15
Coil connections 3R	ø	1/2″	1/2″	1/2″	3/4″	3/4″	3/4″	3/4″	3/4″
Coil connections 1R	ø	1/2″	1/2″	1/2″	1/2″	1/2″	1/2″	1/2″	1/2″

Power supply = 230V ~ 50Hz

(E) = EUROVENT certified performance

Performance values refer to the following conditions:

♪ Sound pressure measured in an 85 m^3 semi-reverberant test chamber with reverberation time Tr = 0.5s.

Cooling:
- room air temperature 27 °C B.S., 19 °C B.U.;
- maximum speed:
  - water inlet temperature 7 °C; Δt water 5 °C.
- medium and low speed:
  - water inlet temperature 7 °C;
  - water flow rate remains same as at maximum speed.

Heating:
room air temperature 20 °C B.S.;
- maximum speed:
  - water inlet temperature 70 °C; Δt water 10 °C;
- medium and low speed:
  - water inlet temperature 70 °C;
  - water flow rate remains same as at maximum speed.
- maximum speed (water inlet 50°C):
  - water inlet temperature 50 °C;
  - water flow rate same as in cooling operation.

FCX PO with 3-row coil

Mod.		FCX 22	FCX 32	FCX 42	FCX 50	FCX 62	FCX 82
Heating							
Heating capacity	W (max.)	3400	4975	7400	8620	12920	15140
	W (med.)	2700	4085	6415	7530	10940	13350
	W (min.)	1915	3380	5115	5420	8330	10770
Heating capacity* (water inlet 50°C)	W ***(E)***	2100	3160	4240	4900	6460	7990
Heating capacity (accessory RX)	W	950	1300	1650	1950	2200	2200
Water flow rate	l/h	292	427	636	741	1110	1300
Water pressure drop	kPa	6,3	14,2	14,1	14,2	14,8	19,8
Cooling							
Total cooling capacity	W (max.) ***(E)***	1500	2210	3400	4190	4860	7420
	W (med.)	1330	2055	2800	3640	4660	5500
	W (min.)	1055	1570	2310	2840	3950	4710
Sensible cooling capacity	W (max.) ***(E)***	1240	1750	2760	3000	3980	5680
	W (med.)	1055	1540	2115	2750	3510	4250
	W (min.)	755	1100	1635	2040	2825	3450
Water flow rate	l/h	258	380	585	721	836	1276
Water pressure drop	kPa ***(E)***	5,8	16,6	14,3	19,3	11,6	13,5
Air flow rate	m^3/h (max.)	290	450	600	720	920	1140
	m^3/h (med.)	220	350	460	600	720	930
	m^3/h (min.)	140	260	330	400	520	700
Fans	n.	1	2	2	2	3	3
♪ Sound pressure	dB (A) (max.)	41,5	39,5	42,5	47,5	48,5	53,5
	dB (A) (med.)	34,5	32,5	35,5	42,5	42,5	48,5
	dB (A) (min.)	22,5	25,5	28,5	33,5	33,5	41,5
Sound power	dB (A) (max.) ***(E)***	50	48	51	56	57	62
	dB (A) (med.) ***(E)***	43	41	44	51	51	57
	dB (A) (min.) ***(E)***	31	34	37	42	42	50
Water contents	l	0,79	1,11	1,48	1,48	2,52	2,52
Max. motor power	W	54	97	111	82	97	135
Max. input current	A	0,25	0,45	0,51	0,36	0,48	0,62
Max. motor power with electric heater	W	1004	1397	1761	2032	2297	2335
Input current with electric heater	A	4,38	6,00	7,68	8,84	10,05	10,19
Coil connections 3R	ø	1/2″	1/2″	3/4″	3/4″	3/4″	3/4″
Coil connections 1R	ø	1/2″	1/2″	1/2″	1/2″	1/2″	1/2″

Power supply = 230V ~ 50Hz

(E) = EUROVENT certified performance

Performance values refer to the following conditions:
♪ Sound pressure measured in an 85 m^3 semi-reverberant test chamber with reverberation time Tr = 0.5s.

Cooling:
- room air temperature 27 °C B.S., 19 °C B.U.;
- maximum speed:
  - water inlet temperature 7 °C; t water 5 °C.
- medium and low speed:
  - water inlet temperature 7 °C;
  - water flow rate remains same as at maximum speed.

Heating:
room air temperature 20 °C B.S.;
- maximum speed:
  - water inlet temperature 70 °C; t water 10 °C;
- medium and low speed:
  - water inlet temperature 70 °C;
  - water flow rate remains same as at maximum speed.
- maximum speed (water inlet 50°C):
  - water inlet temperature 50 °C;
  - water flow rate same as in cooling operation.

FCX P with 4-row coil

Mod.		FCX 24	FCX 34	FCX 44	FCX 54	FCX 64	FCX 84
Heating							
Heating capacity	W (max.)	3950	5850	8600	10100	14300	17100
	W (med.)	3200	4850	6930	8760	11500	14420
	W (min.)	2200	3850	5200	6240	8500	11200
Heating capacity* (water inlet 50°C)	W ***(E)***	2320	3550	5250	6100	7810	10400
Water flow rate	l/h	340	503	740	869	1230	1471
Water pressure drop	kPa	4	8	21	22	22	30
Cooling							
Total cooling capacity	W (max.) ***(E)***	1730	2800	4450	4970	6350	8600
	W (med.)	1500	2450	3780	4770	5520	7600
	W (min.)	1150	2050	2970	3620	4500	6270
Sensible cooling capacity	W (max.) ***(E)***	1380	2130	3300	3540	5030	5780
	W (med.)	1140	1789	2722	3101	4195	5016
	W (min.)	828	1441	2079	2281	3330	4013
Water flow rate	l/h	297	482	765	855	1092	1479
Water pressure drop	kPa ***(E)***	3	9	19,2	25,9	13	22
Air flow rate	m^3/h (max.)	290	450	600	720	920	1140
	m^3/h (med.)	220	350	460	600	720	930
	m^3/h (min.)	140	260	330	400	520	700
Fans	n.	1	2	2	2	3	3
♪ Sound pressure	dB (A) (max.)	42,5	39,5	46,5	47,5	48,5	52,5
	dB (A) (med.)	37,5	32,5	41,5	44,5	42,5	48,5
	dB (A) (min.)	26,5	27,5	32,5	35,5	35,5	42,5
Sound power	dB (A) (max.) ***(E)***	51	48	55	56	57	61
	dB (A) (med.) ***(E)***	46	41	50	53	51	57
	dB (A) (min.) ***(E)***	35	36	41	44	44	51
Water contents	l	1	1,5	1,9	1,9	3,4	3,4
Max. motor power	W ***(E)***	33	44	57	67	91	106
Max. input current	A	0,25	0,45	0,51	0,36	0,48	0,62
Coil connections 4R	ø	3/4″	3/4″	3/4″	3/4″	3/4″	3/4″

Power supply = 230V ~ 50Hz

(E) = EUROVENT certified performance

Performance values refer to the following conditions:

♪ Sound pressure measured in an 85 m^3 semi-reverberant test chamber with reverberation time Tr = 0.5s.

Cooling:
- room air temperature 27 °C B.S., 19 °C B.U.;
- maximum speed:
  - water inlet temperature 7 °C; Δt water 5 °C.
- medium and low speed:
  - water inlet temperature 7 °C;
  - water flow rate remains same as at maximum speed.

Heating:
room air temperature 20 °C B.S.;
- maximum speed:
  - water inlet temperature 70 °C; Δt water 10 °C;
- medium and low speed:
  - water inlet temperature 70 °C;
  - water flow rate remains same as at maximum speed.
- maximum speed (water inlet 50°C):
  - water inlet temperature 50 °C;
  - water flow rate same as in cooling operation.

FCX PO with 4-row coil

Mod.		FCX 24	FCX 34	FCX 44	FCX 54	FCX 64	FCX 84
Heating							
Heating capacity	W (max.)	3950	5850	8600	10100	14300	17100
	W (med.)	3200	4850	6930	8760	11500	14420
	W (min.)	2200	3850	5200	6240	8500	11200
Heating capacity* (water inlet 50°C)	W ***(E)***	2320	3550	5250	6100	7810	10400
Water flow rate	l/h	340	503	740	869	1230	1471
Water pressure drop	kPa	4	8	21	22	22	30
Cooling							
Total cooling capacity	W (max.) ***(E)***	1730	2800	4450	4970	6350	8600
	W (med.)	1500	2450	3780	4770	5520	7600
	W (min.)	1150	2050	2970	3620	4500	6270
Sensible cooling capacity	W (max.) ***(E)***	1380	2130	3300	3540	5030	5780
	W (med.)	1140	1789	2722	3101	4195	5016
	W (min.)	828	1441	2079	2281	3330	4013
Water flow rate	l/h	297	482	765	855	1092	1479
Water pressure drop	kPa ***(E)***	3	9	19,2	25,9	13	22
Air flow rate	m^3/h (max.)	290	450	600	720	920	1140
	m^3/h (med.)	220	350	460	600	720	930
	m^3/h (min.)	140	260	330	400	520	700
Fans	n.	1	2	2	2	3	3
♪ Sound pressure	dB (A) (max.)	49,5	44	50	50,5	53,5	55,5
Sound power	dB (A) (max.)	58	52,5	58,5	59	62	64
Water contents	l	1	1,5	1,9	1,9	3,4	3,4
Max. motor power	W ***(E)***	54	97	111	82	97	135
Max. input current	A	0,25	0,45	0,51	0,36	0,48	0,62
Coil connections 4R	ø	3/4″	3/4″	3/4″	3/4″	3/4″	3/4″

Power supply = 230V ~ 50Hz

(E) = EUROVENT certified performance

Performance values refer to the following conditions:

♪ Sound pressure measured in an 85 m^3 semi-reverberant test chamber with reverberation time Tr = 0.5s.

Cooling:

- room air temperature 27 °C B.S., 19 °C B.U.;
  - maximum speed:
    - water inlet temperature 7 °C; t water 5 °C.
  - medium and low speed:
    - water inlet temperature 7 °C;
    - water flow rate remains same as at maximum speed.

Heating:

- room air temperature 20 °C B.S.;
  - maximum speed:
    - water inlet temperature 70 °C; t water 10 °C;
  - medium and low speed:
    - water inlet temperature 70 °C;
    - water flow rate remains same as at maximum speed.
  - maximum speed (water inlet 50°C):
    - water inlet temperature 50 °C;
    - water flow rate same as in cooling operation.

English

OPERATING LIMITS

Maximum water inlet temperature..... 80 °C
Maximum working pressure..... 8 bar
Operating Voltage.....230V(±10%) ~ 50Hz
Room Temperature..... 0÷45°C
Room Humidity.....<85% U.R.

Water flow limits (3-row coil):

MOD.	FCX	17	22	32	42	50	62	82	102
Minimum water flow	[l/h]	100	100	100	150	150	300	300	300
Maximum water flow	[l/h]	750	750	750	1100	1100	2200	2200	2200

English

Water flow limits (1-row coil):

MOD.	FCX	17	22	32	42	50	62	82	102
Minimum water flow	[l/h]	50	50	50	50	50	100	100	100
Maximum water flow	[l/h]	400	400	400	400	400	900	900	900

Water flow limits (4-row coil):

MOD.	FCX	24	34	44	54	64	84
Minimum water flow	[l/h]	150	150	150	150	300	300
Maximum water flow	[l/h]	1100	1100	1100	1100	2200	2200

Minimum average water temperature

To prevent the formation of condensation on the exterior of the unit while the fan is operating, the average water temperature should not drop beneath the limits shown in the table below, determined by the thermo-hydrometric ambient conditions.
These limits refer to unit operation with fan at minimum speed.

In case condensation is formed on the exterior of the unit if cold water circulates through the coil while the fan is off for prolonged periods of time, it is advisable to fit the additional three-way valve.

MINIMUM AVERAGE WATER TEMPERATURE

		Dry bulbe air temperature [°C]					
		21	23	25	27	29	31
Wet bulbe air temperature °C	15	3	3	3	3	3	3
	17	3	3	3	3	3	3
	19	3	3	3	3	3	3
	21	6	5	4	3	3	3
	23	-	8	7	6	5	5

FCX 17

Water temp. Inlet [°C]	Δt	TOTAL COOLING CAPACITY [W] Wet bulbe air temperature [°C] 15	17	19	21	23	SENSIBLE COOLING CAPACITY [W] Dry bulbe air temperature [°C] 21	23	25	27	29	31
	3	884	1246	1624	2012	2428	723	857	996	1112	1226	1337
	4	750	1071	1472	1866	2286	652	768	907	1044	1161	1276
5	**5**	699	920	1277	1710	2137	615	718	820	956	1093	1211
	6	–	852	1105	1525	1975	583	685	781	877	1011	1145
	7	–	–	1027	1328	1803	548	652	747	835	933	1068
	3	777	1109	1495	1882	2299	654	786	923	1054	1170	1282
	4	674	934	1328	1734	2157	595	711	840	980	1104	1220
6	**5**	627	823	1141	1572	2002	562	666	768	895	1029	1155
	6	–	768	991	1364	1833	530	635	731	823	945	1086
	7	–	–	927	1191	1638	498	601	699	791	879	1001
	3	671	964	1362	1750	2167	589	727	858	995	1113	1226
	4	602	825	1171	1595	2021	544	652	780	911	1046	1163
7	**5**	–	736	**1000**	1403	1859	512	615	716	**830**	966	1096
	6	–	–	891	1209	1684	480	580	683	777	879	1018
	7	–	–	837	1075	1466	447	548	649	744	832	936
	3	597	845	1212	1615	2031	532	658	796	930	1054	1168
	4	551	718	1036	1452	1879	493	595	717	849	982	1105
8	**5**	–	660	875	1252	1710	461	562	667	769	899	1038
	6	–	–	807	1061	1505	429	530	634	730	822	954
	7	–	–	–	970	1296	395	497	600	695	788	878
	3	539	727	1055	1472	1889	477	594	728	859	995	1110
	4	500	635	900	1282	1730	443	544	654	784	912	1046
9	**5**	–	593	775	1098	1555	411	512	614	715	835	969
	6	–	–	725	941	1346	378	479	579	682	771	891
	7	–	–	–	878	1146	345	446	548	649	739	827
	3	481	630	920	1309	1744	425	536	662	797	930	1053
	4	–	575	779	1118	1578	392	493	594	722	851	982
10	**5**	–	–	694	955	1378	360	461	561	665	773	903
	6	–	–	–	843	1177	326	429	530	631	725	828
	7	–	–	–	–	1023	292	395	497	600	694	782
	3	429	572	788	1152	1591	374	479	598	731	860	993
	4	–	525	679	982	1405	342	443	543	659	787	918
11	**5**	–	–	622	829	1205	310	410	510	614	716	839
	6	–	–	–	757	1027	275	378	479	579	678	770
	7	–	–	–	–	918	238	344	446	547	648	737
	3	–	514	679	986	1432	324	425	541	665	798	928
	4	–	473	600	845	1227	292	392	492	595	725	853
12	**5**	–	–	–	730	1045	258	360	461	561	664	778
	6	–	–	–	–	891	222	326	428	528	630	723
	7	–	–	–	–	826	182	292	395	497	599	693
	3	–	456	605	856	1259	273	374	483	602	732	858
	4	–	–	547	732	1071	240	341	442	542	664	789
13	**5**	–	–	–	654	904	206	309	410	510	614	720
	6	–	–	–	–	795	167	275	377	479	578	678
	7	–	–	–	–	–	120	238	343	446	547	648

NB: Values of capacity in bold face refer to nominal value.
Values of sensible capacity higher than values of total capacity mean that cooling is without dehumidification. In this case consider only the values of sensible capacity.

The cooling capacities in the table must be multiplied by the following factors:

MOD.		**FCX 17**
Maximun speed	total capacity	1,00
	sensible capacity	1,00
Medium speed	total capacity	0,89
	sensible capacity	0,86
Minimum speed	total capacity	0,72
	sensible capacity	0,65

FCX 22

Water temp. Inlet [°C]	Δt	TOTAL COOLING CAPACITY [W] Wet bulbe air temperature [°C] 15	17	19	21	23	SENSIBLE COOLING CAPACITY [W] Dry bulbe air temperature [°C] 21	23	25	27	29	31
	3	1238	1731	2254	–	–	1065	1253	1434	1590	1743	1891
	4	1110	1579	2090	2613	3163	973	1162	1350	1512	1669	1823
5	**5**	948	1372	1893	2440	3003	864	1048	1236	1430	1594	1751
	6	866	1167	1677	2250	2826	814	955	1124	1322	1511	1673
	7	–	1049	1436	2028	2631	768	907	1033	1207	1407	1591
	3	1085	1555	2086	2613	–	980	1164	1352	1511	1667	1814
	4	963	1387	1917	2440	2994	875	1068	1252	1432	1591	1745
6	**5**	837	1198	1701	2258	2826	786	955	1143	1334	1514	1672
	6	779	1015	1478	2063	2640	742	882	1038	1229	1422	1594
	7	–	946	1247	1811	2436	698	840	969	1119	1314	1510
	3	948	1372	1893	2440	–	885	1066	1262	1432	1589	1736
	4	841	1207	1719	2258	2817	783	977	1165	1350	1513	1666
7	**5**	750	1033	**1500**	2072	2640	719	869	1056	**1240**	1432	1595
	6	707	908	1280	1841	2445	673	814	953	1139	1326	1513
	7	–	847	1107	1597	2232	627	766	905	1036	1223	1419
	3	837	1198	1701	2258	–	794	983	1164	1349	1508	1662
	4	748	1046	1512	2072	2631	701	891	1073	1260	1430	1590
8	**5**	683	901	1311	1862	2449	649	786	971	1149	1340	1514
	6	–	817	1119	1625	2245	603	742	882	1049	1235	1430
	7	–	–	994	1390	1997	558	696	839	967	1129	1327
	3	750	1033	1527	2072	–	714	890	1079	1261	1429	1582
	4	671	907	1314	1878	2440	625	793	984	1166	1350	1511
9	**5**	616	783	1137	1640	2250	580	717	878	1061	1250	1434
	6	–	738	966	1420	2019	534	673	813	966	1147	1337
	7	–	–	889	1198	1762	487	627	766	904	1047	1230
	3	683	901	1311	1862	2449	633	799	986	1163	1347	1505
	4	593	796	1134	1652	2241	554	711	897	1073	1260	1431
10	**5**	–	713	977	1433	2037	510	648	790	979	1159	1345
	6	–	–	858	1222	1780	464	603	741	884	1062	1245
	7	–	–	–	1052	1542	415	558	696	840	968	1143
	3	–	782	1137	1640	2250	551	719	893	1078	1257	1424
	4	–	716	978	1433	2032	486	629	801	986	1167	1349
11	**5**	–	646	854	1238	1795	441	579	717	888	1067	1252
	6	–	–	767	1061	1555	393	534	673	812	975	1151
	7	–	–	–	933	1329	342	487	627	764	904	1058
	3	–	713	977	1433	2037	467	638	804	988	1162	1343
	4	–	637	854	1247	1801	416	554	720	901	1075	1259
12	**5**	–	–	753	1073	1564	370	510	648	799	985	1161
	6	–	–	701	918	1350	322	464	603	741	889	1070
	7	–	–	–	840	1143	266	415	558	696	836	974
	3	–	646	854	1238	1795	392	556	723	896	1078	1253
	4	–	–	762	1058	1561	346	485	638	809	989	1165
13	**5**	–	–	678	921	1350	299	440	578	720	896	1070
	6	–	–	–	806	1155	246	393	534	671	812	983
	7	–	–	–	–	988	181	342	487	627	764	902

NB: Values of capacity in bold face refer to nominal value.
Values of sensible capacity higher than values of total capacity mean that cooling is without dehumidification. In this case consider only the values of sensible capacity.

The cooling capacities in the table must be multiplied by the following factors:

MOD.		FCX 22	FCX 24
Maximum speed	total capacity	1,00	1,15
	sensible capacity	1,00	1,11
Medium speed	total capacity	0,89	1,00
	sensible capacity	0,85	0,92
Low speed	total capacity	0,70	0,77
	sensible capacity	0,61	0,67

FCX 32

Water temp. Inlet [°C]	Δt	TOTAL COOLING CAPACITY [W] Wet bulbe air temperature [°C] 15	17	19	21	23	SENSIBLE COOLING CAPACITY [W] Dry bulbe air temperature [°C] 21	23	25	27	29	31
	3	1303	1866	2512	3148	–	1134	1368	1612	1817	2004	2184
	4	1618	2281	2921	–	–	1351	1604	1851	2055	2253	2438
5	**5**	1415	2026	2728	3419	–	1231	1485	1750	1973	2176	2371
	6	1231	1793	2502	3228	3968	1088	1360	1623	1881	2090	2292
	7	1064	1556	2246	3010	3770	997	1222	1493	1753	2001	2210
	3	1587	2241	–	–	–	1347	1593	1831	2029	2220	2409
	4	1407	2013	2693	–	–	1230	1477	1733	1954	2153	2340
6	**5**	1236	1780	2491	3189	3924	1103	1366	1623	1867	2076	2272
	6	1056	1552	2219	2984	3732	974	1236	1494	1755	1989	2193
	7	960	1332	1964	2759	3528	906	1104	1368	1630	1895	2106
	3	1363	1989	–	–	–	1219	1479	1726	1928	2120	2313
	4	1205	1758	2456	3138	–	1095	1355	1604	1849	2054	2246
7	**5**	1069	1552	**2210**	2947	3681	987	1240	1488	**1750**	1973	2174
	6	939	1341	1956	2733	3489	878	1114	1377	1630	1884	2090
	7	871	1152	1705	2456	3272	817	997	1248	1501	1759	2004
	3	1174	1723	2403	–	–	1084	1349	1593	1827	2022	2212
	4	1056	1523	2193	2895	–	990	1233	1476	1744	1950	2149
8	**5**	942	1337	1938	2693	3438	878	1114	1372	1625	1868	2072
	6	841	1161	1710	2448	3228	785	990	1255	1501	1755	1989
	7	–	1012	1490	2170	2997	727	906	1120	1382	1636	1896
	3	1042	1475	2162	–	–	981	1221	1477	1722	1921	2115
	4	952	1320	1912	2649	–	881	1114	1357	1616	1848	2046
9	**5**	843	1152	1688	2413	3182	764	1001	1248	1492	1752	1970
	6	–	1009	1472	2158	2959	695	881	1128	1386	1632	1882
	7	–	911	1275	1881	2693	635	817	1003	1263	1261	1771
	3	942	1264	1872	–	–	875	1089	1348	1591	1819	2013
	4	847	1131	1653	2386	3112	774	997	1240	1491	1743	1948
10	**5**	–	1014	1447	2113	2914	663	891	1134	1376	1624	1864
	6	–	900	1271	1864	2680	622	785	1008	1266	1513	1755
	7	–	–	1104	1623	2378	542	727	906	1145	1389	1638
	3	839	1095	1600	2320	–	769	983	1224	1474	1716	1914
	4	–	1007	1420	2078	2851	661	891	1109	1359	1615	1844
11	**5**	–	909	1258	1832	2636	574	778	1010	1254	1503	1749
	6	–	–	1102	1618	2355	512	695	895	1148	1392	1634
	7	–	–	963	1398	2078	448	635	817	1015	1274	1524
	3	–	992	1363	2035	–	661	880	1091	1349	1587	1813
	4	–	904	1212	1793	2579	546	783	1003	1242	1491	1737
12	**5**	–	–	1087	1583	2316	483	667	902	1141	1379	1622
	6	–	–	971	1390	2030	419	605	788	1021	1274	1517
	7	–	–	–	1209	1789	347	542	727	911	1159	1405
	3	–	891	1172	1739	–	552	774	987	1210	1472	1709
	4	–	–	1063	1534	2267	452	672	898	1114	1359	1610
13	**5**	–	–	971	1352	1995	391	574	792	1019	1260	1503
	6	–	–	–	1198	1754	321	512	695	911	1158	1394
	7	–	–	–	1042	1534	238	448	635	817	1033	1291

NB: Values of capacity in bold face refer to nominal value.
Values of sensible capacity higher than values of total capacity mean that cooling is without dehumidification. In this case consider only the values of sensible capacity.

The cooling capacities in the table must be multiplied by the following factors:

MOD.		**FCX 32**	**FCX 34**
Maximum speed	total capacity	1,00	1,17
	sensible capacity	1,00	1,12
Medium speed	total capacity	0,86	1,02
	sensible capacity	0,81	0,94
Low speed	total capacity	0,65	0,85
	sensible capacity	0,58	0,76

English

FCX 42

Water temp. Inlet [°C]	Δt	TOTAL COOLING CAPACITY [W] Wet bulbe air temperature [°C] 15	17	19	21	23	SENSIBLE COOLING CAPACITY [W] Dry bulbe air temperature [°C] 21	23	25	27	29	31
	3	2871	–	–	–	–	2336	2730	3088	3401	3715	–
	4	2491	3516	4551	–	–	2149	2550	2942	3279	3602	3907
5	**5**	2156	3110	4241	5329	–	1920	2332	2752	3134	3468	3791
	6	1808	2717	3825	5010	6191	1648	2113	2530	2955	3320	3653
	7	1602	2278	3368	4635	5854	1544	1850	2298	2737	3155	3507
	3	2491	3497	–	–	–	2131	2542	2918	3240	3552	–
	4	2166	3103	4194	–	–	1939	2349	2755	3112	3437	3749
6	**5**	1879	2730	3832	4963	6126	1706	2143	2554	2962	3303	3628
	6	1563	2343	3426	4626	5816	1496	1908	2337	2754	3150	3489
	7	1457	1924	2962	4204	5460	1402	1685	2094	2528	2951	3339
	3	2146	3071	–	–	–	1929	2336	2730	3076	3393	3702
	4	1882	2742	3825	4898	–	1740	2160	2553	2941	3275	3592
7	**5**	1621	2375	**3400**	4579	5751	1523	1944	2343	**2760**	3133	3465
	6	1415	2014	2987	4223	5423	1355	1679	2138	2558	2960	3322
	7	1321	1689	2556	3471	5048	1260	1544	1878	2338	2754	3163
	3	1850	2704	3761	–	–	1740	2136	2539	2909	3228	3540
	4	1647	2382	3381	4523	–	1564	1948	2357	2754	3108	3429
8	**5**	1482	2040	3013	4185	5357	1334	1751	2160	2561	2958	3298
	6	1279	1737	2601	3748	5010	1216	1507	1940	2353	2761	3151
	7	–	1518	2195	3297	4616	1118	1402	1695	2140	2559	2975
	3	1644	2324	3342	–	–	1571	1934	2334	2739	3064	3379
	4	1482	2033	2987	4128	–	1388	1753	2166	2554	2936	3267
9	**5**	1266	1782	2588	3741	4954	1169	1557	1962	2369	2758	3131
	6	–	1515	2233	3297	4588	1074	1355	1733	2172	2565	2964
	7	–	1386	1859	2846	4109	976	1260	1540	1932	2362	2760
	3	1482	1995	2936	–	–	1398	1746	2135	2536	2899	3215
	4	1312	1769	2581	3683	4869	1203	1581	1961	2357	2750	3100
10	**5**	–	1563	2246	3284	4532	1027	1368	1772	2169	2560	2956
	6	–	1350	1924	2846	4109	932	1214	1534	1977	2380	2762
	7	–	–	1615	2446	3619	831	1118	1402	1718	2169	2573
	3	1320	1727	2517	3625	–	1224	1577	1938	2333	2732	3052
	4	–	1579	2195	3245	4448	1010	1405	1767	2168	2547	2929
11	**5**	–	1392	1927	2852	4083	885	1179	1584	1990	2373	2757
	6	–	–	1647	2465	3613	788	1074	1361	1770	2186	2570
	7	–	–	1450	2098	3155	684	976	1260	1547	1966	2373
	3	–	1566	2149	3149	–	1047	1407	1753	2136	2529	2883
	4	–	1412	1901	2800	4012	841	1226	1598	1984	2356	2741
12	**5**	–	–	1669	2433	3580	744	1027	1402	1794	2177	2561
	6	–	–	1466	2117	3142	642	932	1213	1574	1999	2385
	7	–	–	–	1789	2710	529	831	1118	1402	1768	2189
	3	–	1405	1850	2730	–	863	1233	1584	1945	2329	2717
	4	–	–	1669	2375	3535	698	1037	1422	1780	2172	2545
13	**5**	–	–	1502	2104	3103	600	885	1206	1604	2003	2374
	6	–	–	–	1824	2691	491	788	1072	1382	1808	2195
	7	–	–	–	1544	2317	359	684	976	1260	1564	2004

NB: Values of capacity in bold face refer to nominal value.
Values of sensible capacity higher than values of total capacity mean that cooling is without dehumidification. In this case consider only the values of sensible capacity.

The cooling capacities in the table must be multiplied by the following factors:

MOD.		**FCX 42**	**FCX 44**
Maximum speed	total capacity	1,00	1,31
	sensible capacity	1,00	1,20
Medium speed	total capacity	0,82	1,11
	sensible capacity	0,77	0,99
Low speed	total capacity	0,68	0,87
	sensible capacity	0,59	0,75

FCX 50

Water temp. Inlet [°C]	Δt	TOTAL COOLING CAPACITY [W] Wet bulbe air temperature [°C] 15	17	19	21	23	SENSIBLE COOLING CAPACITY [W] Dry bulbe air temperature [°C] 21	23	25	27	29	31
	3	3542	–	–	–	–	2624	2952	3296	3632	–	–
	4	3227	4260	5468	–	–	2461	2810	3145	3500	3836	4164
5	**5**	2912	3892	5083	6406	–	2284	2643	2999	3343	3704	4039
	6	2588	3516	4663	6011	7451	2064	2467	2831	3185	3545	3896
	7	2246	3130	4234	5565	7043	1755	2251	2646	3015	3369	3740
	3	3170	–	–	–	–	2448	2788	3113	3458	3791	–
	4	2885	3848	5031	–	–	2290	2642	2980	3326	3663	3989
6	**5**	2605	3498	4628	5960	–	2096	2470	2829	3168	3523	3861
	6	2307	3139	4225	5539	6979	1848	2290	2656	3013	3356	3720
	7	1983	2789	3813	5083	6546	1537	2053	2471	2841	3194	3556
	3	2833	3778	–	–	–	2278	2623	2941	3280	3619	–
	4	2579	3454	4575	–	–	2105	2472	2809	3139	3486	3819
7	**5**	2329	3130	**4190**	5486	–	1892	2301	2657	**3000**	3343	3690
	6	2062	2806	3796	5039	6495	1618	2104	2483	2838	3182	3541
	7	1721	2474	3402	4593	6037	1355	1827	2292	2670	3020	3370
	3	2535	3376	–	–	–	2090	2448	2786	3096	3443	3772
	4	2325	3078	4129	5390	–	1900	2298	2642	2975	3307	3647
8	**5**	2075	2789	3791	4996	6406	1675	2119	2483	2829	3165	3516
	6	1817	2496	3393	4558	5986	1367	1892	2308	2666	3006	3357
	7	–	2189	3034	4137	5503	–	1581	2102	2496	2854	3195
	3	2299	3008	4024	–	–	1884	2282	2612	2931	3262	3598
	4	2097	2745	3700	4908	–	1690	2122	2478	2808	3129	3468
9	**5**	1861	2491	3358	4505	5909	1448	1917	2318	2659	2994	3329
	6	–	2229	3017	4094	5468	1147	1666	2127	2502	2845	3172
	7	–	1940	2693	3700	4987	–	1367	1884	2320	2683	3024
	3	2075	2675	3603	–	–	1678	2093	2449	2775	3079	3421
	4	1874	2456	3279	4435	–	1476	1917	2308	2644	2967	3291
10	**5**	–	2237	2982	4032	5398	1210	1702	2138	2492	2828	3141
	6	–	1992	2684	3665	4926	–	1428	1929	2331	2675	3005
	7	–	–	2386	3279	4479	–	–	1650	2137	2515	2853
	3	1852	2412	3192	–	–	1469	1892	2288	2606	2916	3240
	4	–	2224	2920	3962	5267	1255	1706	2134	2478	2803	3111
11	**5**	–	2010	2653	3603	4847	951	1481	1941	2332	2662	2979
	6	–	–	2395	3253	4418	–	1174	1706	2154	2513	2836
	7	–	–	2123	2912	3997	–	v	1400	1932	2342	2693
	3	–	2193	2833	3831	–	1258	1687	2102	2448	2762	3061
	4	–	2001	2605	3507	4733	1025	1493	1929	2316	2641	2955
12	**5**	–	–	2377	3192	4339	–	1251	1727	2157	2500	2823
	6	–	–	2150	2885	3927	–	–	1476	1957	2344	2679
	7	–	–	–	2579	3551	–	–	–	1706	2170	2527
	6	–	1970	2531	3398	–	1045	1481	1896	2288	2612	2897
	4	–	–	2351	3113	4243	765	1275	1718	2146	2480	2797
13	**5**	–	–	2150	2833	3848	–	992	1509	1957	2343	2660
	6	–	–	–	2561	3489	–	–	1222	1739	2175	2516
	7	–	–	–	2299	3139	–	–	–	1457	1972	2365

NB: Values of capacity in bold face refer to nominal value.
Values of sensible capacity higher than values of total capacity mean that cooling is without dehumidification. In this case consider only the values of sensible capacity.

The cooling capacities in the table must be multiplied by the following factors:

MOD.		**FCX 50**	**FCX54**
Maximum speed	total capacity	1,00	1,26
	sensible capacity	1,00	1,18
Medium speed	total capacity	0,87	1,14
	sensible capacity	0,92	1,03
Low speed	total capacity	0,68	0,86
	sensible capacity	0,68	0,76

FCX 62

Water temp. Inlet [°C]	Δt	TOTAL COOLING CAPACITY [W] Wet bulbe air temperature [°C] 15	17	19	21	23	SENSIBLE COOLING CAPACITY [W] Dry bulbe air temperature [°C] 21	23	25	27	29	31
	3	4190	5511	6974	–	–	3490	3981	4464	4949	5415	5861
	4	3725	5018	6500	8084	–	3214	3725	4222	4720	5208	5681
5	**5**	3185	4460	5949	7583	9315	2836	3424	3955	4465	4977	5465
	6	2739	3818	5335	7015	8801	2611	3030	3637	4184	4717	5231
	7	2586	3241	4609	6365	8205	2460	2867	3249	3848	4419	4963
	3	3734	5009	6460	–	–	3253	3735	4210	4701	5175	5620
	4	3302	4506	5967	7556	9248	2970	3482	3982	4468	4964	5441
6	**5**	2804	3967	5409	7041	8774	2558	3171	3710	4219	4727	5224
	6	2501	3325	4776	6446	8233	2387	2818	3372	3934	4465	4986
	7	2358	2953	4050	5762	7624	2236	2975	3053	3581	4167	4714
	3	3316	4498	5930	–	–	3017	3499	3977	4456	4934	5388
	4	2924	4023	5418	7015	8706	2704	3240	3738	4227	4721	5200
7	**5**	2478	3501	**4860**	6474	8205	2314	2909	3463	**3980**	4471	4977
	6	2287	2907	4237	5847	7651	2163	2606	3102	3685	4213	4733
	7	–	2693	3492	5149	6988	2012	2460	2869	3304	3913	4453
	3	2943	4004	5391	6946	–	2757	3262	3728	4205	4691	5155
	4	2618	3567	4869	6446	8151	2411	3001	3499	3985	4471	4960
8	**5**	2394	3083	4330	5874	7637	2089	2616	3216	3729	4233	4731
	6	2073	2618	3725	5251	7028	1938	2387	2836	3431	2967	4482
	7	–	2460	3111	4553	6338	1783	2236	2671	3066	3648	4203
	3	2655	3544	4833	6392	–	2480	3031	3502	3965	4448	4915
	4	2339	3149	4349	5855	7569	2099	2742	3266	3742	4226	4714
9	**5**	2004	2720	3827	5279	7028	1865	2323	2967	3489	3982	4474
	6	–	2390	3251	4665	6392	1714	2163	2906	3170	3717	4227
	7	–	–	2813	3976	5688	1558	2012	2455	2867	3382	3955
	3	2394	3135	4302	5800	–	2202	2777	3269	3735	4198	4675
	4	2050	2800	3836	5260	6974	1797	2455	3029	3508	3980	4462
10	**5**	–	2418	3363	4702	6392	1641	2089	2694	3252	3742	3982
	6	–	2176	2822	4107	5744	1485	1938	2382	2897	3472	3982
	7	–	–	2567	3437	5056	1327	1783	2231	2973	3107	3697
	3	2125	2800	3790	5204	6866	1914	2498	3043	3506	3957	4433
	4	–	2520	3380	4693	6352	1598	2158	2777	3278	3746	4208
11	**5**	–	2125	2962	4153	5744	1417	1865	2382	3005	3514	3986
	6	–	–	2515	3595	5111	1258	1714	2158	2626	3229	3746
	7	–	–	2348	2981	4441	1091	1558	2007	2455	2880	3447
	3	–	2539	3334	4618	6257	1612	2221	2786	3273	3727	4182
	4	–	2246	2990	4135	5698	1344	1836	2494	3049	3520	3978
12	**5**	–	–	2627	3651	5111	1190	1641	2094	2753	3281	3753
	6	–	–	2278	3139	4506	1027	1485	1936	2382	2972	3504
	7	–	–	–	2683	3864	845	1327	1783	2231	2674	3188
	3	–	2278	2957	4064	5614	1283	1938	2513	3050	3504	3944
	4	–	–	2683	3632	5064	1116	1566	2202	2806	3293	3744
13	**5**	–	–	2344	3204	4506	959	1415	1860	2451	3044	3522
	6	–	–	–	2748	3939	813	1258	1711	2158	2681	3268
	7	–	–	–	2451	3344	575	1091	1558	2007	2455	2921

NB: Values of capacity in bold face refer to nominal value.
Values of sensible capacity higher than values of total capacity mean that cooling is without dehumidification. In this case consider only the values of sensible capacity.

The cooling capacities in the table must be multiplied by the following factors:

MOD.		FCX 62	FCX 64
Maximum speed	total capacity	1,00	1,31
	sensible capacity	1,00	1,19
Medium speed	total capacity	0,96	1,14
	sensible capacity	0,83	0,99
Low speed	total capacity	0,81	0,93
	sensible capacity	0,67	0,79

FCX 82

Water temp. Inlet [°C]	Δt	TOTAL COOLING CAPACITY [W] Wet bulbe air temperature [°C] 15	17	19	21	23	SENSIBLE COOLING CAPACITY [W] Dry bulbe air temperature [°C] 21	23	25	27	29	31
	3	5591	7373	–	–	–	4995	5671	6366	7036	7680	8303
	4	4979	6701	8676	10810	0	4612	5326	6023	6722	7409	8055
5	**5**	4320	5975	7952	10144	12453	4127	4927	5664	6367	7082	7760
	6	3553	5167	7131	9381	11749	3569	4400	5232	5983	6715	7440
	7	3291	4225	6243	8503	10985	3346	3939	4689	5556	6331	7069
	3	4979	6688	–	–	–	4656	5338	6008	6699	7344	7987
	4	4427	6014	7965	10106	–	4262	4990	5672	6373	7073	7735
6	**5**	3815	5315	7212	9401	11729	3710	4576	5313	6019	6732	7428
	6	3217	4549	6405	8597	10985	3248	3978	4879	5643	6357	7085
	7	3008	3782	5517	7696	10164	3032	3658	4291	5193	5969	6718
	3	4427	6002	7925	–	–	4318	4996	5669	6354	7018	7657
	4	3930	5369	7218	9361	–	3890	4652	5337	6011	6723	7401
7	**5**	3392	4710	**7420**	8638	10966	3256	4211	4972	**5680**	6381	7084
	6	2927	3984	5705	7803	10203	2934	3591	4504	5290	6015	6742
	7	2725	3432	4817	6902	9342	2718	3346	3953	4818	5619	6367
	3	3949	5342	7185	–	–	3950	4670	5337	5999	6679	7324
	4	3526	4763	6486	8611	10887	3480	4310	5009	5681	6364	7056
8	**5**	3210	4159	5773	7830	10183	2852	3815	4624	5337	6022	6740
	6	2645	3473	5033	6997	9381	2621	3248	4115	4938	5668	6380
	7	–	3143	4172	6136	8477	2405	3032	3651	4427	5263	6006
	3	3566	4724	6432	–	–	3555	4340	5002	5654	6329	6978
	4	3156	4219	5786	7803	10106	3054	3942	4671	5347	6008	6711
9	**5**	2585	3687	5113	7024	9361	2532	3375	4275	4996	5688	6375
	6	–	3096	4414	6230	8503	2308	2934	3674	4588	5320	6032
	7	–	2861	3648	5382	7589	2083	2718	3346	4008	4898	5660
	3	3210	4192	5719	7723	–	3151	3971	4678	5336	5978	6644
	4	2773	3762	5113	6997	9283	2599	3539	4340	5017	5686	6356
10	**5**	–	3291	4508	6270	8503	2219	2905	3898	4668	5357	6034
	6	–	2780	3875	5503	7642	1995	2621	3271	4219	4984	5694
	7	–	–	3284	4697	6754	1770	2405	3032	3666	4538	5315
	3	2847	3755	5046	6916	–	2741	3576	4355	4997	5647	6300
	4	–	3392	4522	6230	8450	2136	3114	3986	4692	5357	6000
11	**5**	–	2894	3984	5530	7628	1905	2532	3472	4329	5026	5694
	6	–	–	3405	4831	6808	1679	2308	2934	3808	4650	5351
	7	–	–	2995	4077	5948	1442	2088	2718	3346	4132	4968
	3	–	3405	4448	6136	–	2323	3181	3994	4679	5326	5953
	4	–	3015	4003	5503	7562	1811	2681	3584	4370	5026	5671
12	**5**	–	–	3553	4871	6781	1589	2219	3017	3971	4704	5369
	6	–	–	2988	4239	6002	1358	1995	2621	3346	4297	5026
	7	–	–	–	3539	5194	1103	1770	2405	3032	3718	4617
	3	–	3049	3957	5402	7440	1868	2774	3599	4365	4995	5622
	4	–	–	3600	4831	6727	1495	2196	3166	4024	4713	5348
13	**5**	–	–	3176	4293	5988	1270	1905	2554	3547	4372	5038
	6	–	–	–	3728	5275	1025	1679	2308	2949	3915	4691
	7	–	–	–	3156	4535	732	1444	2088	2718	3346	4254

NB: Values of capacity in bold face refer to nominal value.
Values of sensible capacity higher than values of total capacity mean that cooling is without dehumidification. In this case consider only the values of sensible capacity.

The cooling capacities in the table must be multiplied by the following factors:

MOD.		**FCX 82**	**FCX 84**
Maximum speed	total capacity	1,00	1,24
	sensible capacity	1,00	1,06
Medium speed	total capacity	0,80	1,10
	sensible capacity	0,85	1,00
Low speed	total capacity	0,68	0,91
	sensible capacity	0,69	0,80

English

FCX 102

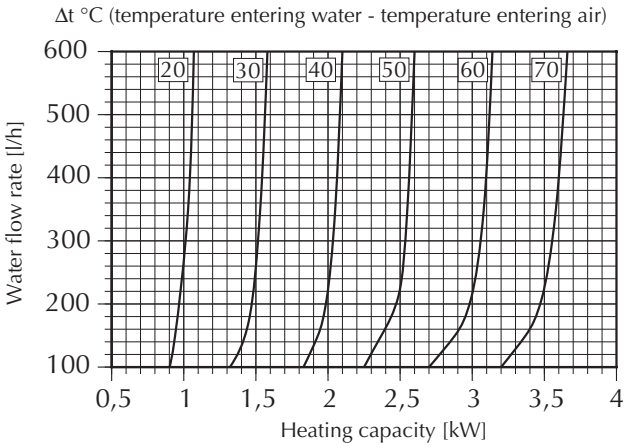
Water temp. Inlet [°C]	Δt	TOTAL COOLING CAPACITY [W] Wet bulbe air temperature [°C] 15	17	19	21	23	SENSIBLE COOLING CAPACITY [W] Dry bulbe air temperature [°C] 21	23	25	27	29	31
	3	6495	–	–	–	–	5223	5958	6664	7366	–	–
	4	5846	7808	10067	–	–	4880	5605	6333	7080	7784	8471
5	**5**	5153	7043	9291	11788	–	4441	5230	5974	6715	7473	8200
	6	4403	6221	8428	10970	13656	3828	4778	5582	6348	7105	7863
	7	3609	5326	7519	10025	12816	3308	4140	5122	5940	6716	7501
	3	5802	–	–	–	–	4881	5588	6294	7003	–	–
	4	5196	7029	9249	–	–	4521	5248	5963	6693	7426	8107
6	5	4576	6293	8457	10928	–	4063	4866	5607	6352	7094	7835
	6	3869	5514	7591	10067	12795	3330	4399	5208	5971	6717	7489
	7	3263	4648	6697	9120	11914	2985	3696	4725	5562	6347	7120
	3	5153	6956	–	–	–	4537	5227	5932	6630	7337	–
	4	4612	6278	8413	–	–	4151	4900	5610	6329	7056	7754
7	5	4057	5586	**7620**	10046	12711	3608	4503	5249	**5980**	6715	7460
	6	3379	4865	6798	9149	11893	2912	3978	4847	5608	6357	7117
	7	2953	4028	5918	8226	10970	2670	3315	4315	5195	5969	6734
	3	4569	6206	–	–	–	4158	4886	5581	6264	6968	7659
	4	4122	5571	7562	9962	–	3726	4554	5261	5964	6687	7390
8	5	3609	4937	6812	9120	11809	3139	4124	4898	5623	6339	7087
	6	2903	4273	6033	8255	10928	2582	3491	4481	5255	5991	6727
	7	–	3508	5196	7360	9962	2348	2985	3843	4820	5618	6373
	3	4114	5485	7447	–	–	3748	4551	5223	5913	6598	7297
	4	3703	4937	6754	9063	–	3293	4195	4921	5614	6295	7027
9	5	3162	4381	6033	8226	10865	2626	3696	4554	5273	5988	6707
	6	–	3783	5312	7389	9941	2264	2978	4084	4901	5631	6362
	7	–	3119	4547	6524	9005	2033	2670	3374	4432	5247	5996
	3	3710	4850	6639	–	–	3330	4180	4888	5574	6231	6935
	4	3278	4388	5990	8139	–	2846	3770	4575	5265	5951	6652
10	5	–	3912	5341	7360	9878	2176	3242	4183	4927	5628	6334
	6	–	3306	4677	6552	8976	1945	2582	3623	4548	5278	5999
	7	–	–	3956	5730	8053	1706	2352	2993	4015	4896	5638
	3	3299	4331	5860	–	–	2905	3770	4559	5217	5878	6563
	4	–	3956	5283	7274	9753	2370	3345	4224	4928	5609	6278
11	5	–	3480	4713	6524	8890	1857	2751	3770	4594	5288	5976
	6	–	–	4129	5773	8024	1621	2264	3125	4171	4943	5646
	7	–	–	3451	5023	7129	1379	2033	2670	3506	4525	5293
	3	–	3927	5153	7101	–	2472	3352	4195	4889	5559	6189
	4	–	3537	4677	6423	8760	1820	2905	3806	4598	5270	5930
12	5	–	–	4194	5745	7937	1536	2209	3315	4239	4947	5632
	6	–	–	3667	5081	7101	1298	1945	2612	3733	4595	5302
	7	–	–	–	4388	6264	1037	1709	2355	3029	4134	4937
	3	–	3523	4569	6264	–	2025	2934	3784	4571	5203	5845
	4	–	–	4186	5644	7822	1447	2436	3381	4253	4936	5595
13	5	–	–	3761	5052	7029	1213	1857	2846	3828	4623	5295
	6	–	–	–	4475	6249	962	1621	2264	3257	4229	4968
	7	–	–	–	3862	5485	662	1381	2033	2670	3667	4589

NB: Values of capacity in bold face refer to nominal value.
Values of sensible capacity higher than values of total capacity mean that cooling is without dehumidification. In this case consider only the values of sensible capacity.

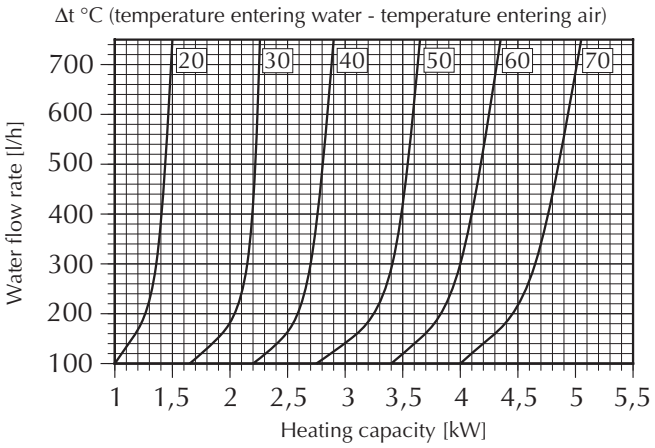
The cooling capacities in the table must be multiplied by the following factors:

MOD.		**FCX 102**
Maximum speed	total capacity	1,00
	sensible capacity	1,00
Medium speed	total capacity	0,94
	sensible capacity	0,90
Low speed	total capacity	0,82
	sensible capacity	0,77

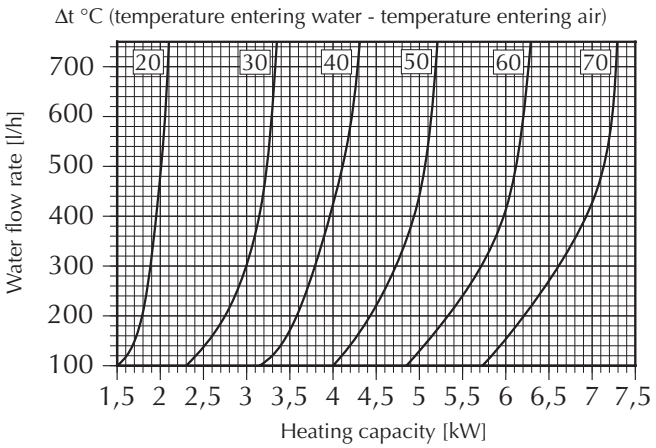
FCX 17



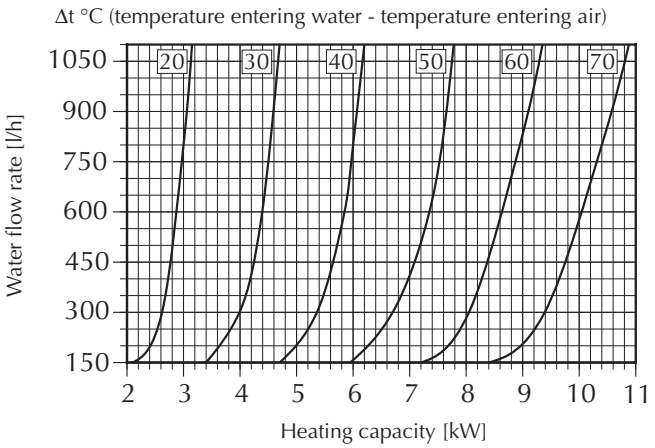
FCX 22



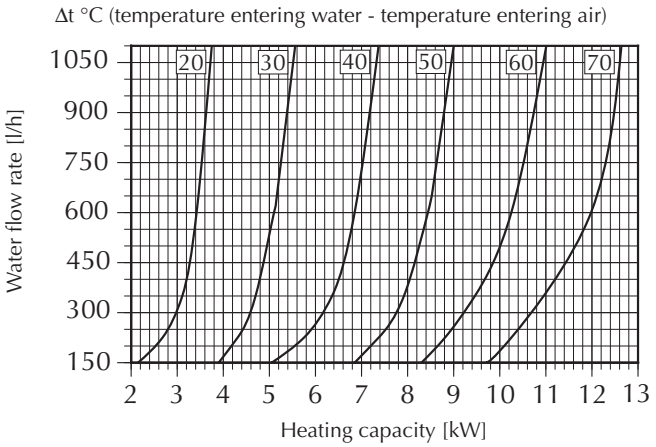
FCX 32



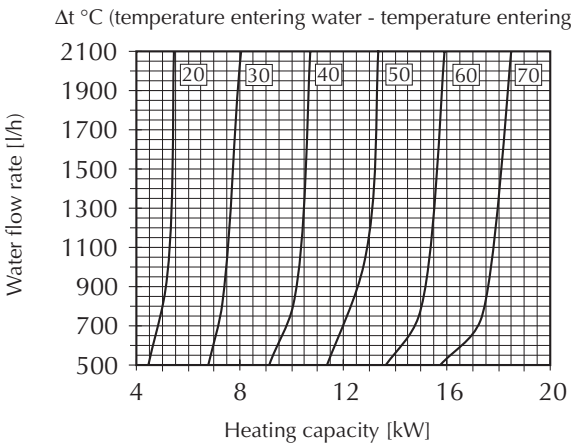
FCX 42



FCX 50

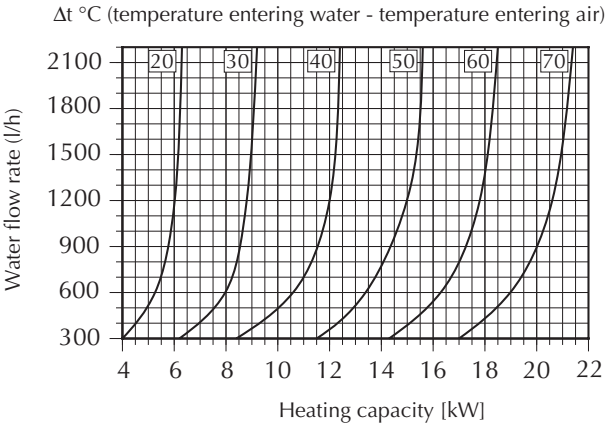


FCX 62

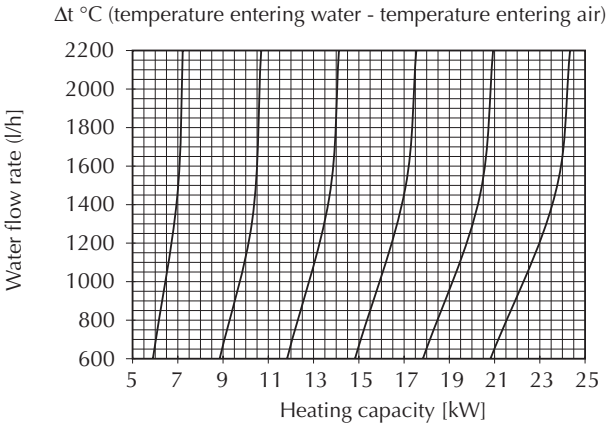


English

FCX 82



FCX 102



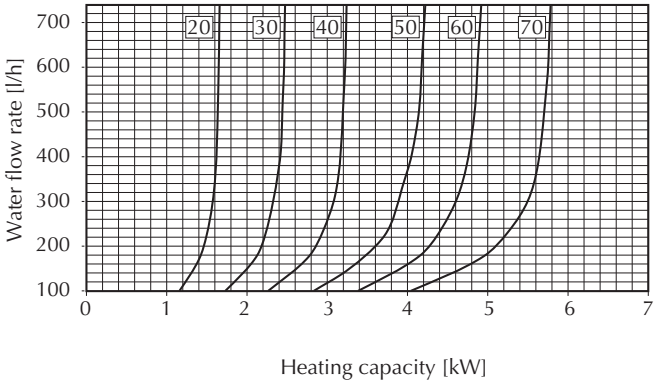
HEATING CAPACITY CORRECTION FACTORS

The heating capacities are at maximum speed. For the other speeds, the values must be multiplied by the following factors:

MOD.	FCX17	FCX 22	FCX 32	FCX 42	FCX 50	FCX 62	FCX 82	FCX102
Medium speed	0,83	0,79	0,82	0,87	0,87	0,85	0,88	0,90
Low speed	0,65	0,56	0,68	0,69	0,63	0,64	0,71	0,74

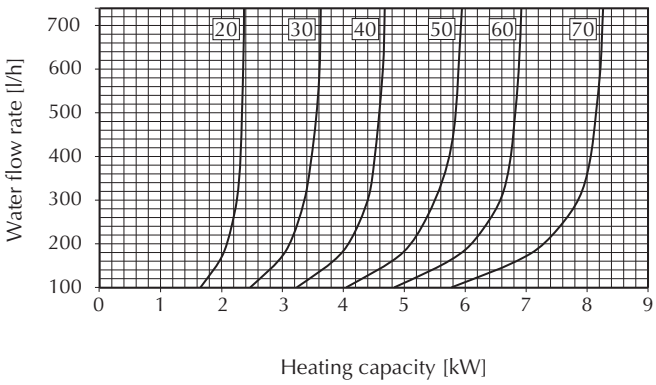
FCX 24

Δt °C (temperature entering water - temperature entering air)



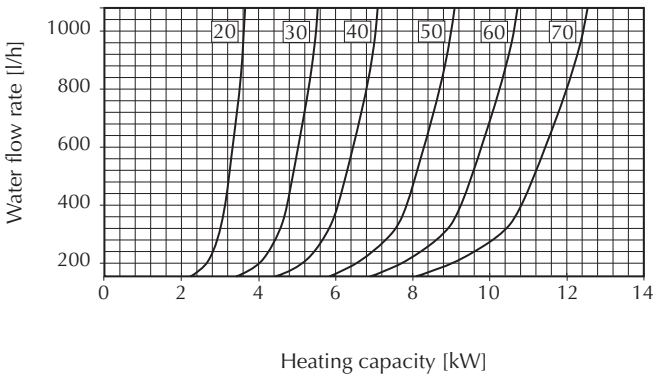
FCX 34

Δt °C (temperature entering water - temperature entering air)



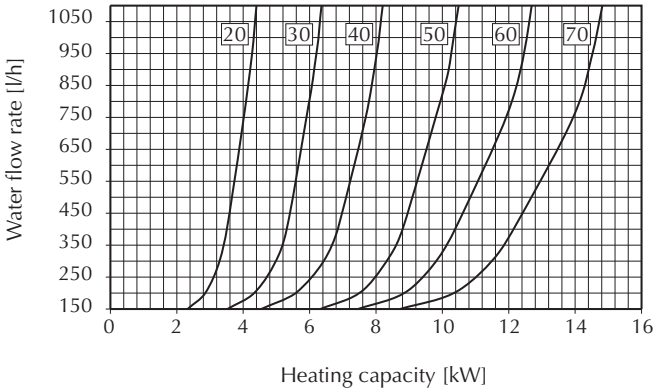
FCX 44

Δt °C (temperature entering water - temperature entering air)



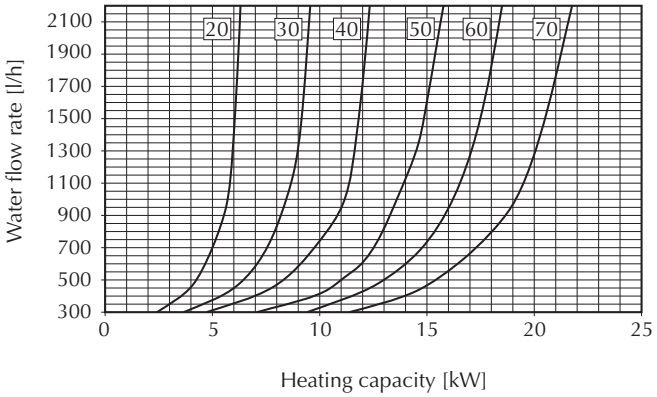
FCX 54

Δt °C (temperature entering water - temperature entering air)



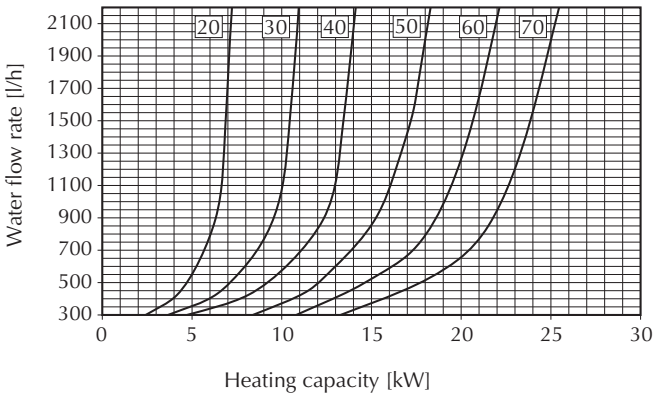
FCX 64

Δt °C (temperature entering water - temperature entering air)



FCX 84

Δt °C (temperature entering water - temperature entering air)



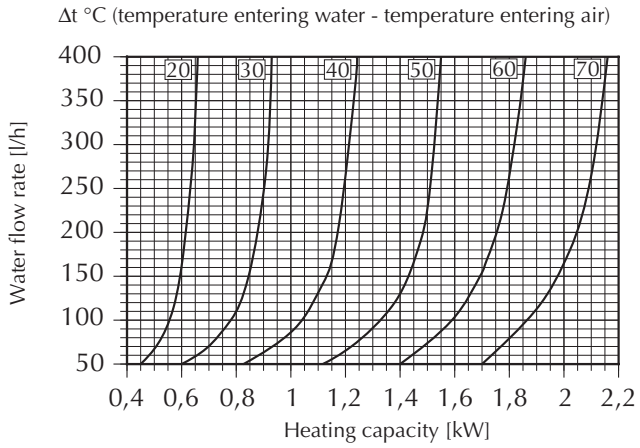
HEATING CAPACITY CORRECTION FACTORS

The heating capacities are at maximum speed. For the other speeds, the values must be multiplied by the following factors:

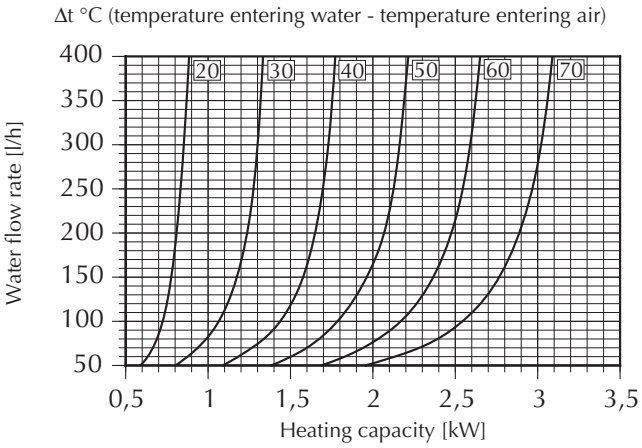
MOD.	FCX 24	FCX 34	FCX 44	FCX 54	FCX 64	FCX 84
Medium speed	0,81	0,83	0,81	0,87	0,80	0,84
Low speed	0,56	0,66	0,60	0,62	0,59	0,65

1-ROW COIL HEATING CAPACITY (ACCESSORY BV)

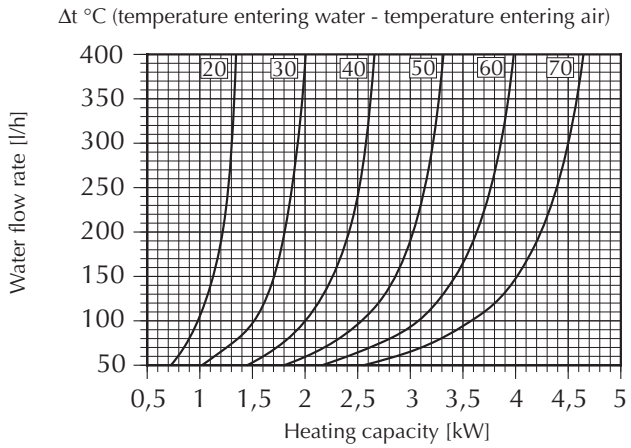
FCX 17 (BV 117)



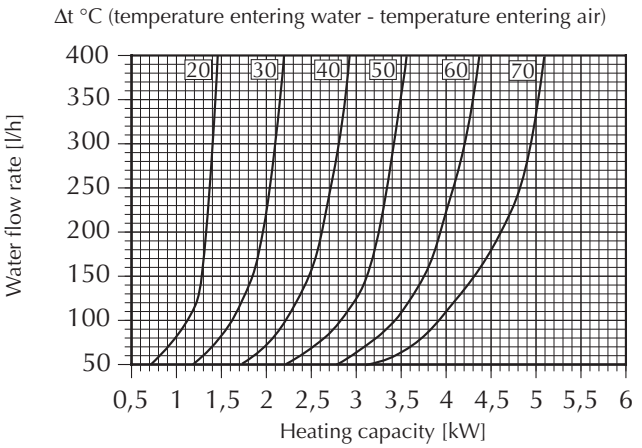
FCX 22 (BV122)



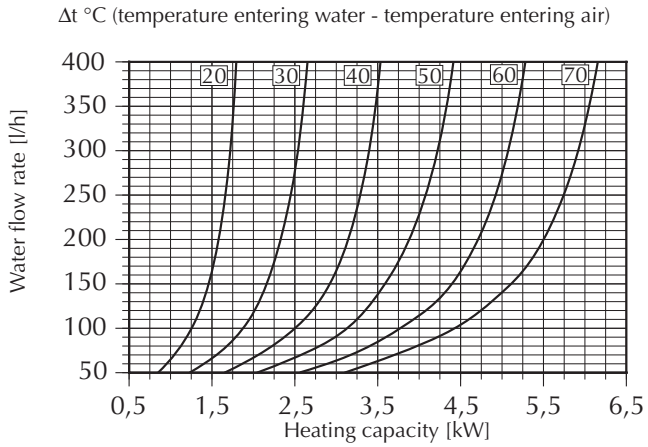
FCX 32 (BV132)



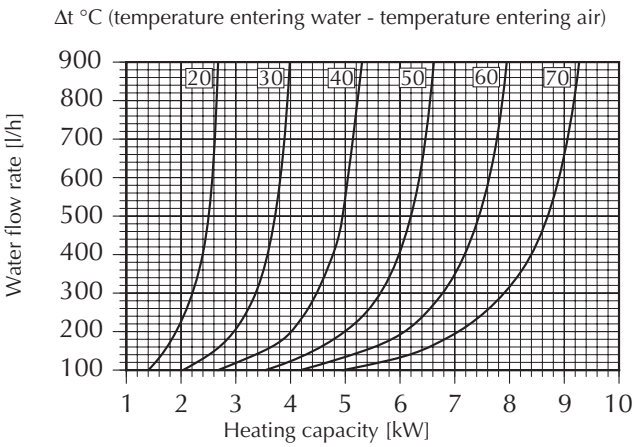
FCX 42 (BV142)



FCX 50 (BV142)

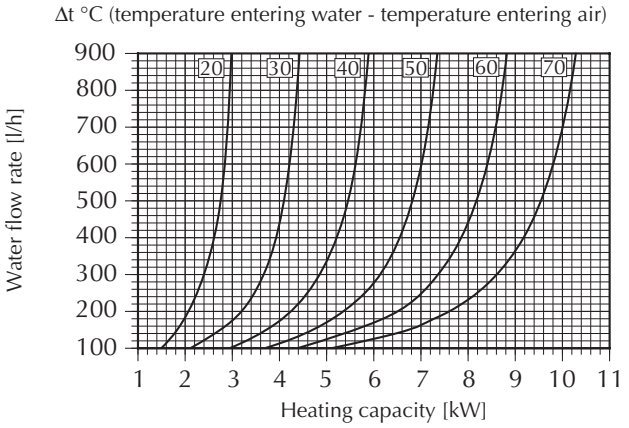


FCX 62 (BV162)

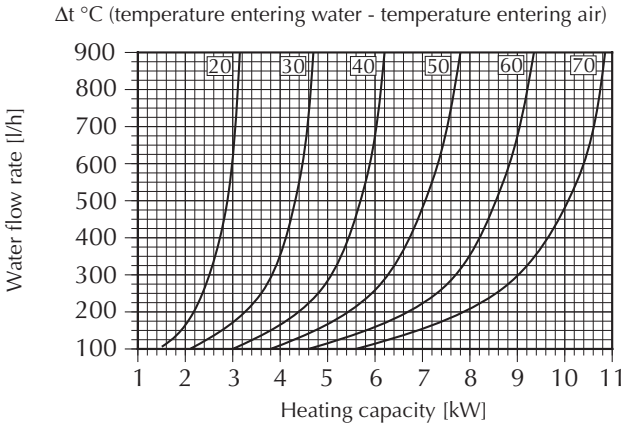


1-ROW COIL HEATING CAPACITY (ACCESSORY BV)

FCX 82 (BV162)



FCX 102 (BV162)



English

HEATING CAPACITY CORRECTION FACTORS

The heating capacities are at maximum speed. For the other speeds, the values must be multiplied by the following factors:

MOD.	FCX17	FCX 22	FCX 32	FCX 42	FCX 50	FCX 62	FCX 82	FCX102
Medium speed	0,89	0,85	0,86	0,88	0,89	0,86	0,9	0,91
Low speed	0,73	0,64	0,72	0,68	0,74	0,71	0,76	0,81

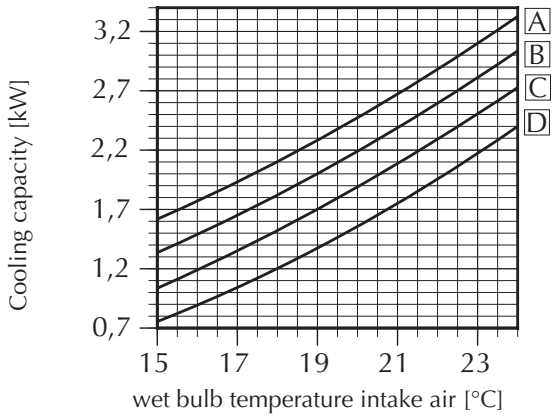
The 3- row coil heating capacity in the fancoil quipped with BV coil accessory (3R + 1R lay-out) are detected by the charts / graphs relating to the 3-row standard coil by applying the here below coefficients.

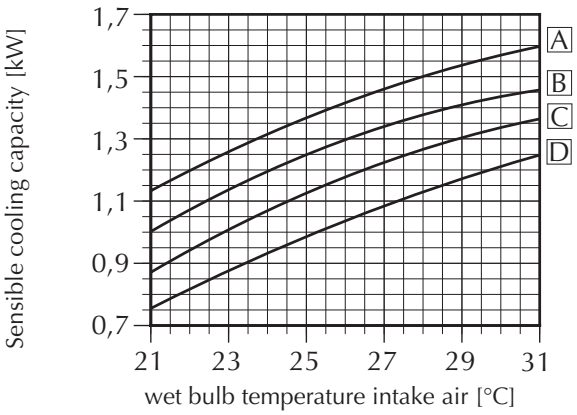
Total cooling capacity	= 0,99
Sensible cooling capacity	= 0,98
Heating	= 0,99

DIRECT EXPANSION COIL COOLING CAPACITY

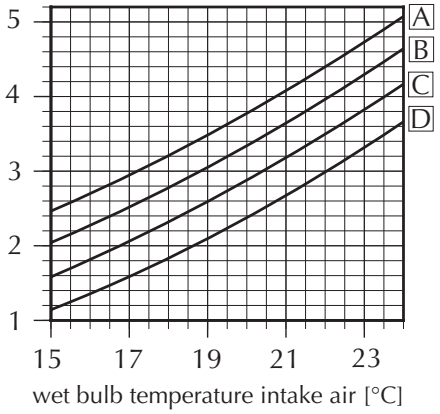
Evaporation temperature: **A** = 2,5 °C **B** = 5 °C **C** = 7,5 °C **D** = 10 °C

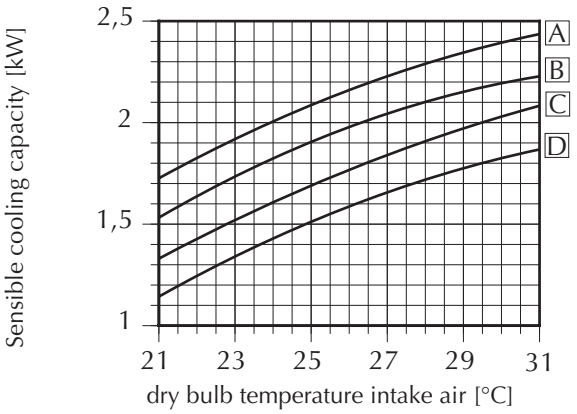
FCX 22



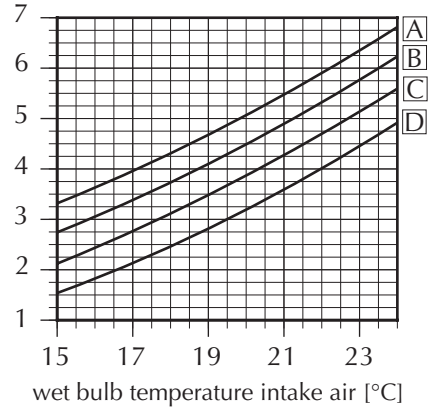


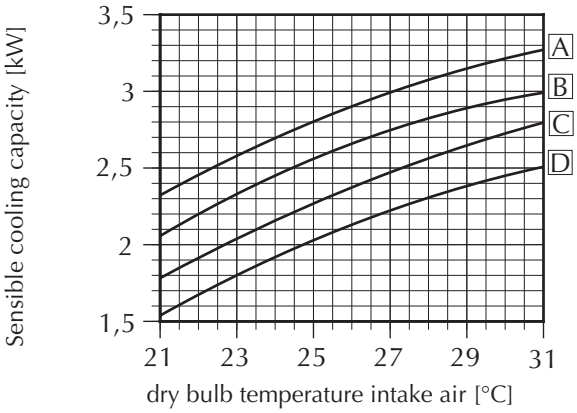
FCX 32



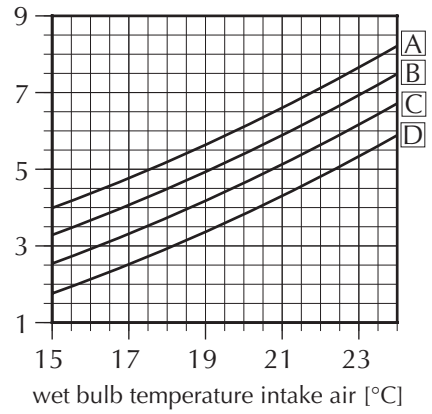


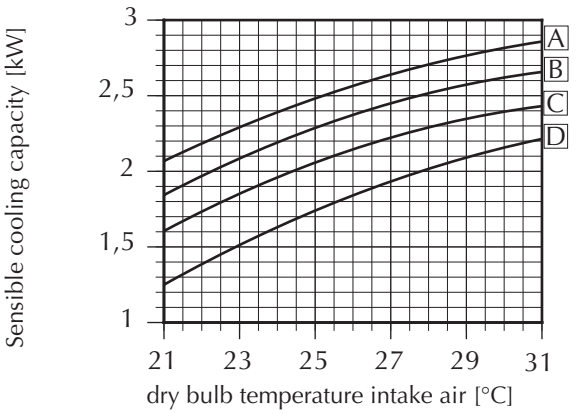
FCX 42





FCX 50

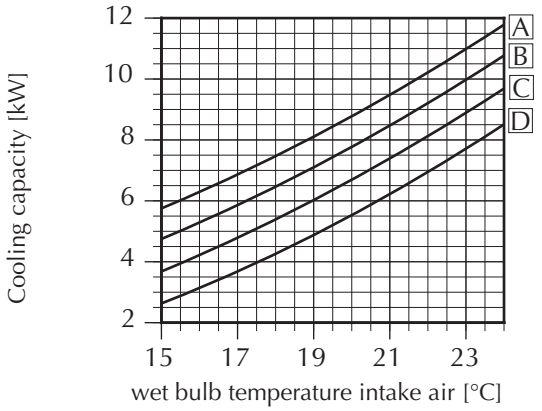


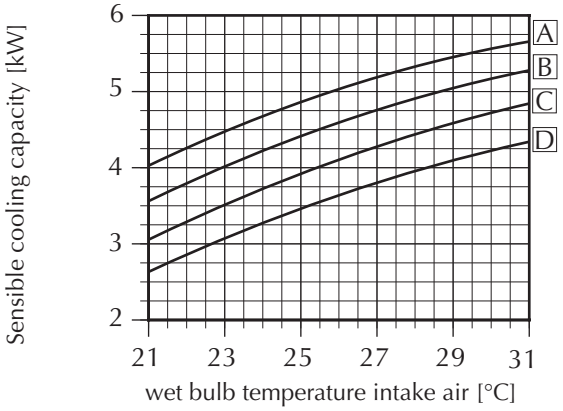


DIRECT EXPANSION COIL COOLING CAPACITY

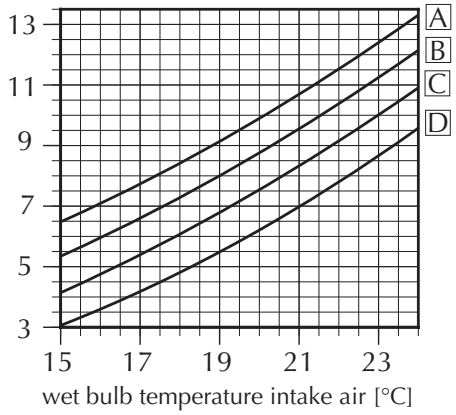
Evaporation temperature: **A** = 2,5 °C **B** = 5 °C **C** = 7,5 °C **D** = 10 °C

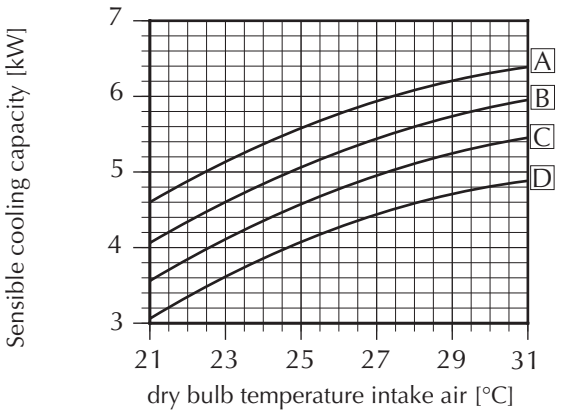
FCX 62



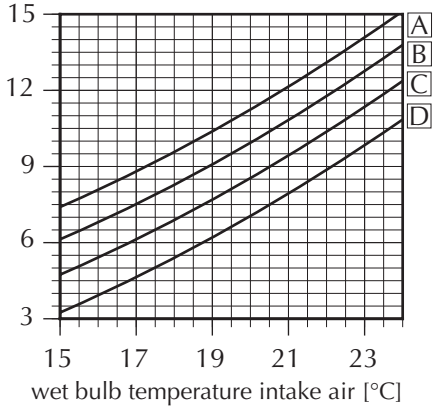


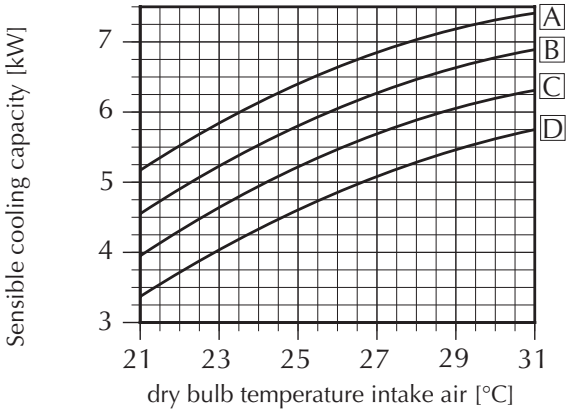
FCX 82





FCX 102





COOLING CAPACITY CORRECTION FACTORS

The cooling capacity are referred to the maximum speed. For the other speeds, the values must be multiplied by the following factors:

MOD.		FCX17	FCX 22	FCX 32	FCX 42	FCX 50	FCX 62	FCX 82	FCX102
Medium speed	total capacity			0,84	0,86	0,85	0,9	0,85	0,89	0,92
	sensible capacity			0,83	0,85	0,84	0,88	0,82	0,88	0,91
Low speed	total capacity			0,61	0,7	0,67	0,71	0,67	0,74	0,8
	sensible capacity			0,58	0,68	0,65	0,68	0,64	0,7	0,77

Note: Sensible power values are higher than the total power and they show the cooling is carried out without dehumidification. Only the sensible power values must be kept into consideration.

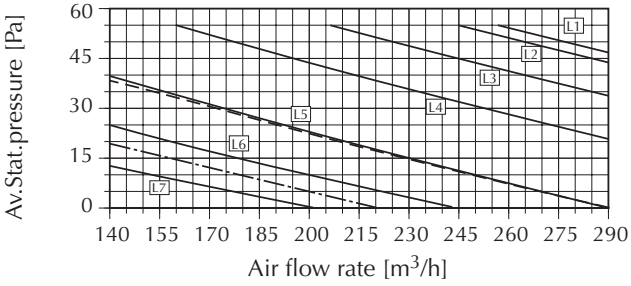
HANGING VERSION AVAILABLE STATIC PRESSURE

IPO series fancoils have been designed to adjust available static pressure provided by the fan to pressure drop in the ducting system by selecting the appropriate operating speed.
Tables give the available static pressure of machines fitted with multiple-speed extra-strength motors, according to air flow and fan speed (L1...L7).
The diagrams also illustrate the available static pressure curves of models with standard motors (P-PE) operating at maximum and medium speed.

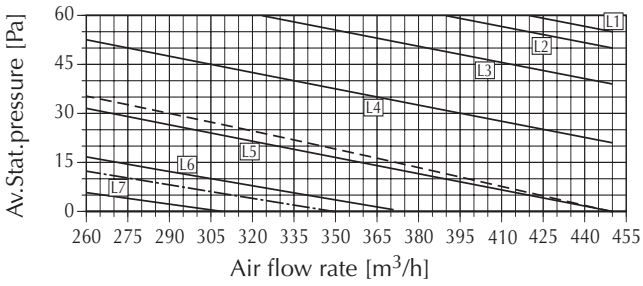
L1: max. speed PO version
L7: min. speed PO version

– – – – – max. speed P version
–·—·— average speed P version

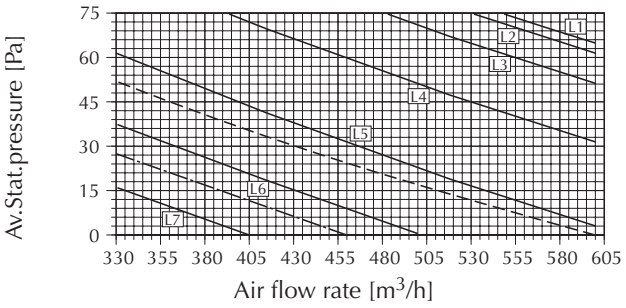
FCX 22 - 24



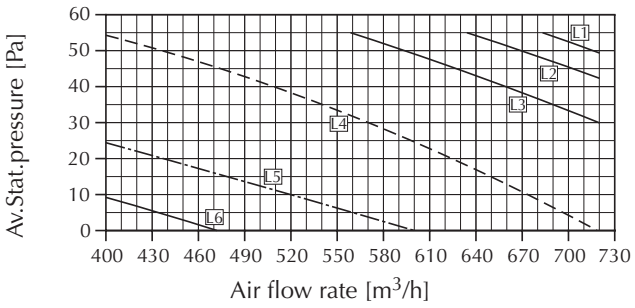
FCX 32 - 34



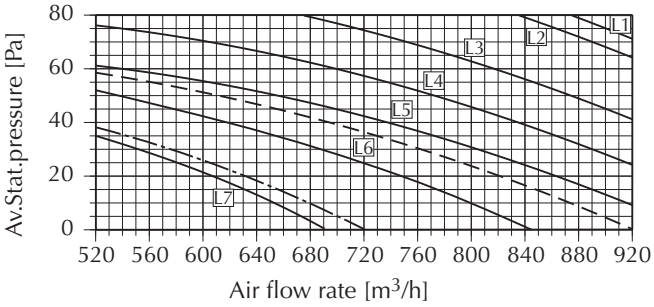
FCX 42 - 44



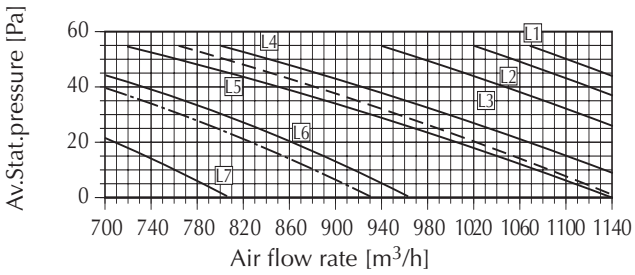
FCX 50 - 54



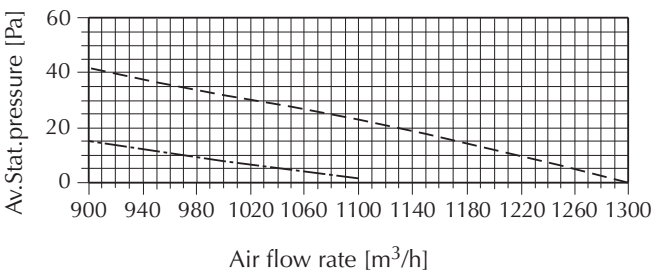
FCX 62 - 64



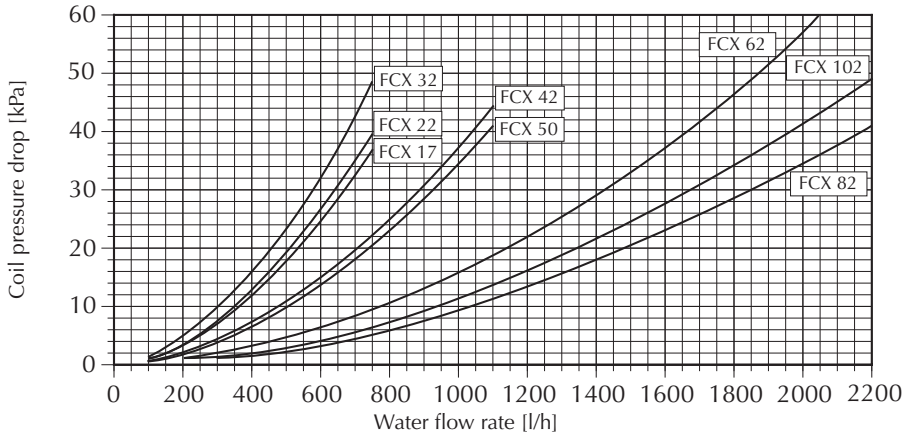
FCX 82 - 84



FCX 102 (only P)



3-ROW COIL PRESSURE DROP

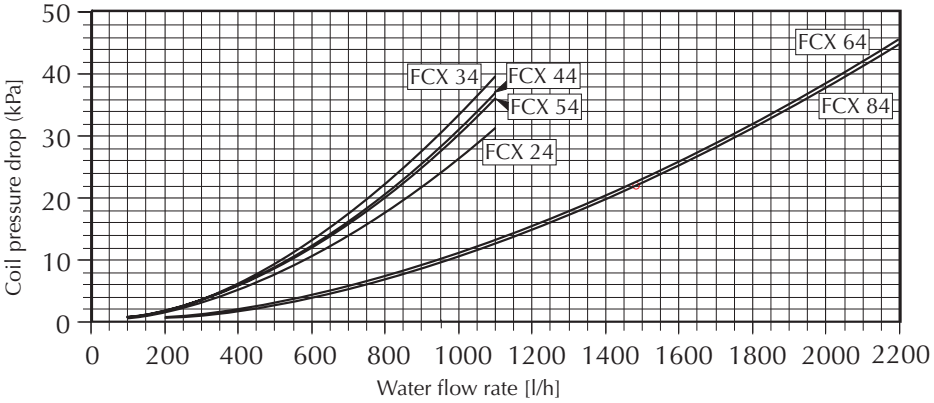


The pressure drops in the charts above refer to an average water temperature of 10 °C. The following table shows the corrections to apply to the pressure drops with a variation in average water temperature.

Average water temperature	°C	5	10	15	20	50	60	70
Correction factor		1,03	1	0,96	0,91	0,78	0,75	0,72

English

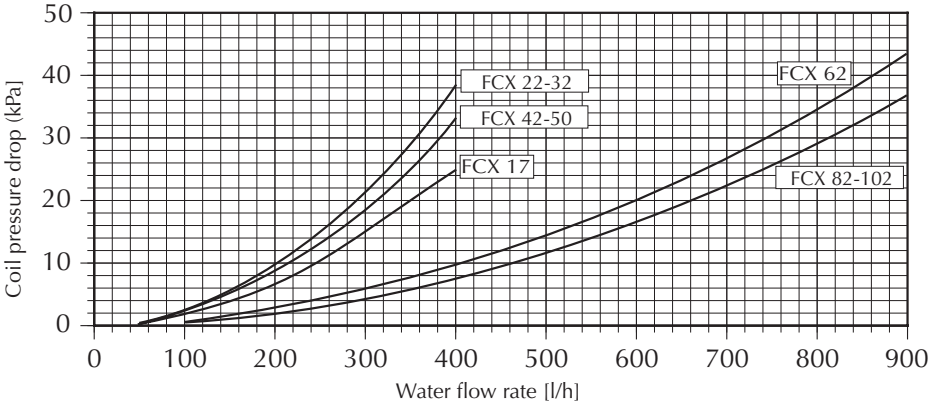
4-ROW COIL PRESSURE DROP



The pressure drops in the charts above refer to an average water temperature of 10 °C. The following table shows the corrections to apply to the pressure drops with a variation in average water temperature.

Temperatura media dell'acqua	°C	5	10	15	20	50	60	70
Correction factor		1,03	1	0,96	0,91	0,78	0,75	0,72

1-ROW COILPRESSURE DROP (accessory BV)



The pressure drops in the charts above refer to an average water temperature of 65 °C. The following table shows the corrections to apply to the pressure drops with a variation in average water temperature.

Average water temperature	°C	5	10	15	20	50	60	70
Correction factor		1,4	1,36	1,31	1,24	1,06	1,02	0,98

CORRECTION FACTORS IN COOLING OPERATION WITH GLYCOL WATER

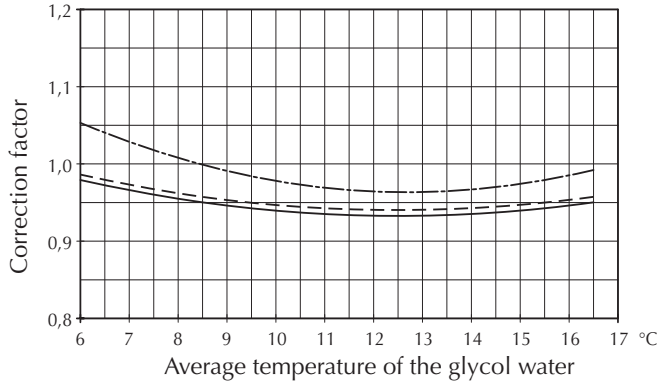
Reading Key:

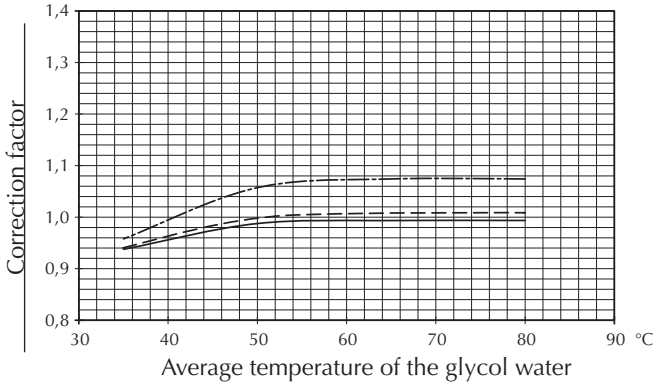
Pressure drops
Water flow
Capacity

IN COOLING

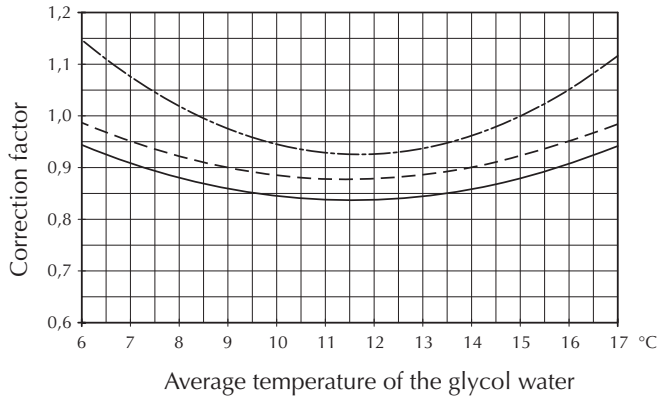
IN HEATING

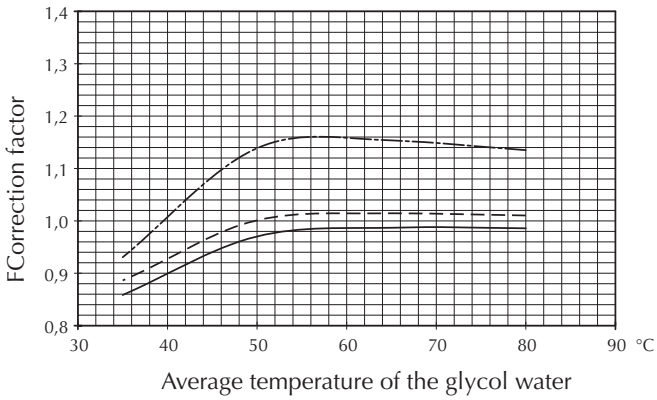
GLYCOL WATER AT 10%



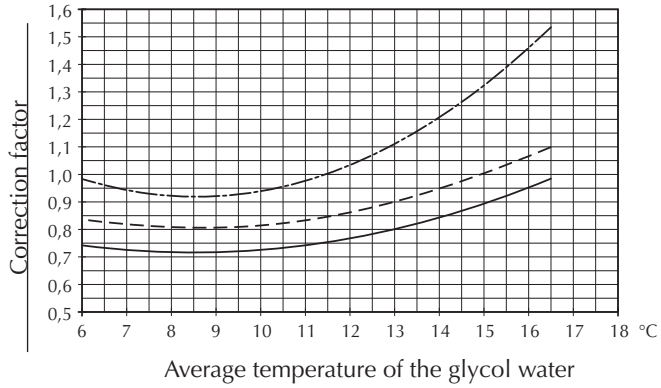


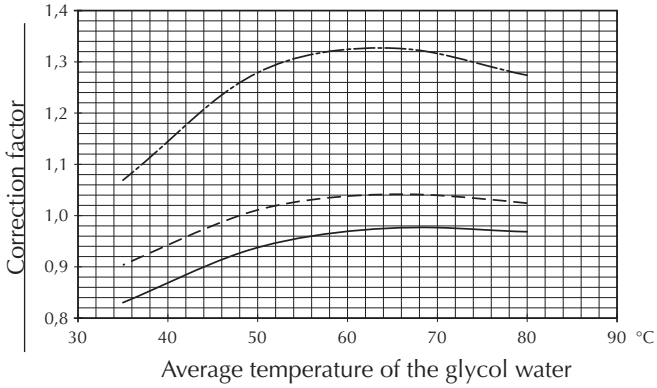
GLYCOL WATER AT 20%





GLYCOL WATER AT 35%





SOUND POWER LEVEL RATED IN dB (A)

	Speed	Band middle frequency [Hz]							Global	
Mod.		**125**	**250**	**500**	**1000**	**2000**	**4000**	**8000**	**dB**	**dB (A)**
	Max	40,4	45,8	43,4	39,7	36,2	28,3	14,8	49,3	**45 (E)**
FCX17	Med.	34,1	40,2	36,7	32,6	26,9	21,1	4,0	43,0	**38 (E)**
	Min	26,1	33,0	29,2	26,1	19,7	16,2	4,1	35,8	**31 (E)**
	Max.	45,6	50,6	48,4	44,7	41,3	33,3	19,7	54,2	50 **(E)**
FCX22	Med.	39,2	44,9	41,7	37,6	31,9	25,8	7,5	47,9	43 **(E)**
	Min.	25,8	33,0	29,1	26,2	19,9	16,2	2,6	35,7	31 **(E)**
	Max.	43,6	48,8	46,4	42,7	39,0	31,3	17,7	52,3	48 **(E)**
FCX32	Med.	37,0	43,0	39,7	35,7	29,9	24,0	5,4	45,9	41 **(E)**
	Min.	28,9	36,1	32,2	29,0	22,9	19,2	3,1	38,8	34 **(E)**
	Max.	46,6	51,8	49,4	45,7	42,0	34,3	20,7	55,3	51 **(E)**
FCX42	Med.	39,6	44,8	42,4	38,7	35,0	27,3	13,7	48,3	44 **(E)**
	Min.	31,9	39,1	35,2	32,0	25,9	22,2	6,1	41,8	37 **(E)**
	Max.	51,6	56,8	54,4	50,7	47,0	39,3	25,7	60,3	56 **(E)**
FCX50	Med.	46,6	51,8	49,4	45,7	42,0	34,3	20,7	55,3	51 **(E)**
	Min.	37,6	42,8	40,4	36,7	33,0	25,3	11,7	46,3	42 **(E)**
	Max.	52,6	57,5	55,4	51,7	48,3	40,3	26,7	61,2	57 **(E)**
FCX62	Med.	46,4	51,8	49,6	45,7	41,9	34,3	20,8	55,3	51 **(E)**
	Min.	37,7	42,6	40,4	36,8	33,0	25,3	11,7	46,3	42 **(E)**
	Max.	57,6	62,8	60,5	56,7	53,2	45,0	31,8	66,3	62 **(E)**
FCX82	Med.	52,4	57,8	55,5	51,7	48,2	40,1	26,7	61,3	57 **(E)**
	Min.	45,6	51,0	48,4	44,6	41,1	33,2	19,8	54,4	50 **(E)**
	Max.	61,5	66,7	64,4	60,7	57,1	49,3	35,8	70,3	66 **(E)**
FCX102	Med.	56,6	61,8	59,4	55,7	52,0	44,3	30,7	65,3	61 **(E)**
	Min.	51,7	56,8	54,4	50,7	46,9	39,3	25,7	60,3	56 **(E)**

(E) = EUROVENT certified performance.

SOUND PRESSURE LEVEL RATED IN DB (A)

Speed	**Mod. FCX**	**17**	**22**	**32**	**42**	**50**	**62**	**82**	**102**
Max		36,5	41,5	39,5	42,5	47,5	48,5	53,5	57,5
Med.		29,5	34,5	32,5	35,5	42,5	42,5	48,5	52,5
Min		22,5	22,5	25,5	28,5	33,5	33,5	41,5	47,5

Sound pressure level (weighted A) measured in a room with 85 m3 volume , reverberation time t= 0,5 s , direction.factor Q= 2 , distance r= 2,5m .

SOUND POWER LEVEL RATED IN DB (A)

	Speed	Band middle frequency [Hz]							Global	
Mod.		**125**	**250**	**500**	**1000**	**2000**	**4000**	**8000**	**dB**	**dB (A)**
FCX24	Max.	46,5	51,6	49,3	45,7	42,3	34,3	20,8	54,2	51
	Med.	42,0	47,9	44,8	40,6	34,8	28,8	10,5	47,9	46
	Min.	29,8	37,2	33,1	30,0	23,8	20,2	5,1	35,7	35
FCX34	Max.	43,7	48,8	46,5	42,7	39,1	31,3	17,6	52,3	48
	Med.	37,2	42,5	40,0	35,7	29,9	24,2	6,1	45,9	41
	Min.	30,8	38,0	34,2	31,1	24,9	21,2	5,7	38,8	36
FCX44	Max.	50,4	55,8	53,7	49,3	46,0	38,5	24,7	55,3	55
	Med.	45,9	50,6	48,4	44,6	41,3	33,3	20,0	48,3	50
	Min.	36,2	42,5	39,4	36,2	29,8	26,2	9,9	41,8	41
FCX54	Max.	51,8	56,8	54,2	50,7	47,3	39,2	25,5	60,3	56
	Med.	48,5	53,8	51,2	47,7	44,3	36,4	22,8	55,3	53
	Min.	40,0	44,8	42,3	38,7	35,2	27,3	13,9	46,3	44
FCX64	Max.	52,3	57,6	55,4	51,7	48,3	41,1	26,5	61,2	57
	Med.	46,5	52,0	49,6	45,7	41,7	34,3	20,6	55,3	51
	Min.	39,6	44,5	42,4	39,1	34,8	27,9	13,7	46,3	44
FCX84	Max.	56,8	61,8	59,4	55,7	52,0	44,3	30,9	66,3	61
	Med.	52,5	57,7	55,5	51,7	48,2	40,3	26,6	61,3	57
	Min.	46,7	52,3	49,6	45,2	42,1	34,5	21,2	54,4	51

SOUND PRESSURE LEVEL RATED IN dB (A)

Velocità	**Mod. FCX**	**24**	**34**	**44**	**54**	**64**	**84**
Max.		42,5	39,5	46,5	47,5	48,5	52,5
Med.		37,5	32,5	41,5	44,5	42,5	48,5
Min.		26,5	27,5	32,5	35,5	35,5	42,5

Sound pressure level (weighted A) measured in a room with 85 m3 volume , reverberation time t= 0,5 s , direction.factor Q= 2 , distance r= 2,5m .

English

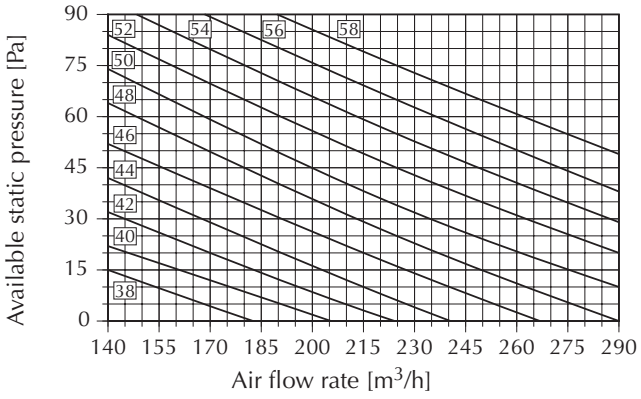
FCX-PO SOUND POWER LEVELS OF DUCTED HANGING VERSIONS in dB

The sound power level generated by ducted fancoils (FCX -PO) depends on fan speed and on the point of operation reached according to pressure drop.

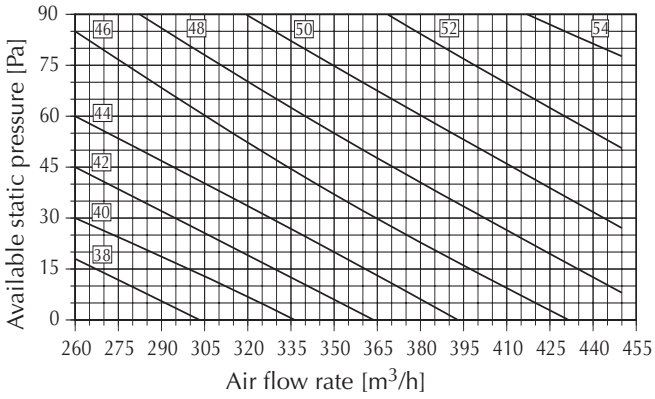
The following diagrams can be used to obtain the sound power level (weighted A), expressed in dB (A) in relation to the relevant curve, according to air flow and available static pressure values.

The overall sound power level expressed in dB(A) are given for each curve.

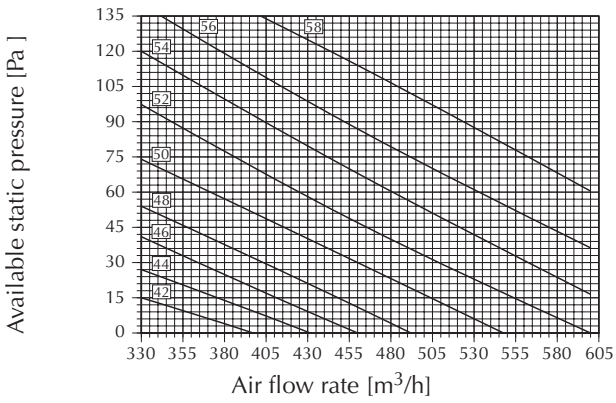
FCX 22



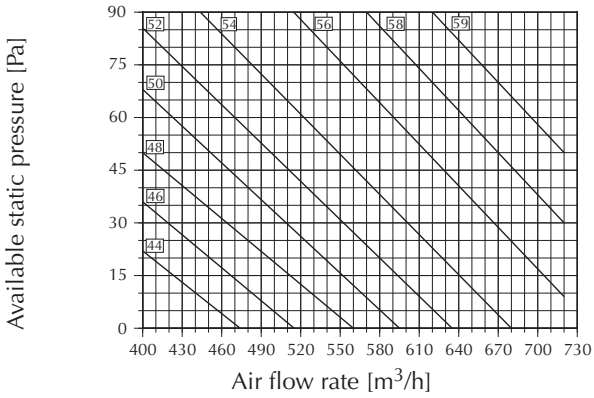
FCX 32



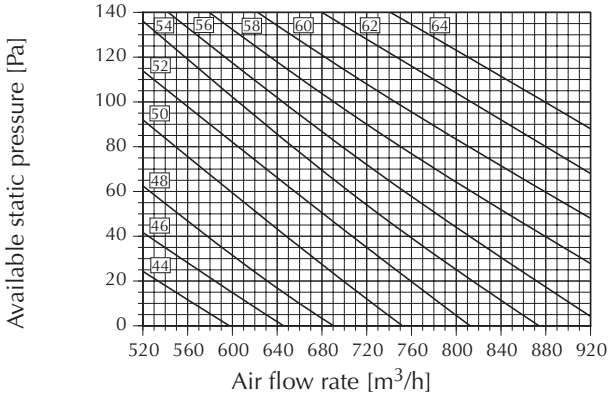
FCX 42



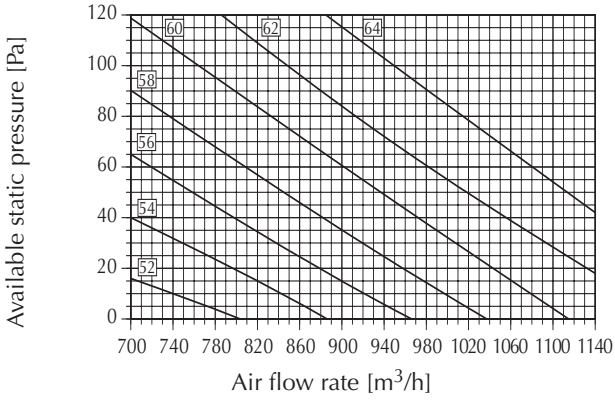
FCX 50



FCX 62



FCX 82



English

AMP BRACKETS FOR HANGING UNITS
Kit includes brackets and bolts for ceiling installation..

BC AUXILIARY CONDENSATE DRIP TRAY
Made of thermoplastic material, collects the condensate forming in summer operation in the region of the non-insulated hydraulic connections and conveys it to the outside. In particular, the BC4 drip tray must be used on all the sizes with vertical installation of the unit.
Attention: The valve VCF and the driptray BC4 can be installed at the same time on the fan coil.
Attention: BC8 and BC9 are not applicable to fan coils with cabinet case
The BC5 drip tray must be installed on sizes FCX 17, 22, 32, 42, 50 and 24, 34, 44, 54 with horizontal installation.
The BC6 drip tray must be installed on sizes 62, 82, 102 e 64, 84 with horizontal installation.
The **BC8** drip tray must be installed on sizes FCX 17, 22, 32, 42, 50 and 24, 34, 44, 54 in version P - PE - PO - POE with horizontal installation.
The **BC9** drip tray must be installed on sizesFCX 62, 82, 102 and 64, 84 in version P - PE - PO - POE with horizontal installation.

BV WATER HEATING COIL
The single-row heating coil can be installed in four-tube fancoils above the standard coil.Coil operation is regulated by a control panel, that actuates a twin valve

CHF VENTILCASSAFORMA
A galvanised template that makes it possible to space to the house fan coils in the wall (FCX P). The template will make masonary work easy during the construction of a niche where the fan coils will be intalled. When work is finished the fan coil will be completely hidden from view.

DSC CONDENSATE DRAINAGE DEVICE
A pump drains condensate from the unit when natural runoff is not possible. Installed on the exterior of the unit

GA INTAKE LOUVRE
Fixed slat sheet metal louvre with stoved polyurethane powder paint finish. The sub-frame is supplied as standard

GAF INTAKE LOUVRE WITH FRAME AND FILTER
Fixed slat louvre with stoved polyurethane powder paint finish; rear side features frame for the filter. The sub-frame and filter are supplied as standard.

GM DELIVERY LOUVRE
Louvre with high-resistance enamel finish; comes with adjustable heat-moulded plastic slats for air diffusion. The subframe is supplied as standard.

MA HIGH COVER CABINET
Consisting of the cover cabinet, fixed louver and air filter for fan coil in vertical, floor-standing version. The FCX for ceiling installation with the MA cabinet assume the characteristics of the FCX-AS and can only be fitted with the accessories reserved for this model. **BC8** and **BC9** are not applicable to fan coils with cabinet case.

MU UNIVERSAL COVER CABINET
Consisting of the cover cabinet, tiltable (in sizes 17, 22, 32, 42 and 50) or fixed louver (in sizes 62, 82 and 102) and air filter for universal version fan coil (FCX - U). The FCX for ceiling installation with the MU cabinet assume the characteristics of the FCX-US and can only be fitted with the accessories reserved for this model. **BC8** and **BC9** are not applicable to fan coils with cabinet case..

PA INTAKE PLENUM
In galvanized steel, complete with connections for circular section ducts of diameter 200 mm.
There are two assembly positions for the plenum, for intake parallel to the fan coil or intake at 90°.

PA FRONT INTAKE PLENUM
In galvanized steel, complete with connections for circular section ducts of diameter 200 mm. The plenum can be used with a front intake coupling parallel to the fan coil delivery or, in sizes PA 32 - 42 - 62 F, also with lateral intake.

PC REAR COVER PANEL
Conveniently covers exposed rear fancoil sections.
The panel is required by current safety standards for units installed away from the room wall.

PCR CONTROL PANEL COVER
Galvanised sheet metal cover designed to protect unit controls and electrical terminals of ducted installations with electrical resistance.

PM DELIVERY PLENUM
Galvanised sheet metal plenum, externally insulated, complete with plastic delivery unions for circular section ducting.

RD STRAIGHT CONNECTION FOR AIR DELIVERY
Galvanised sheet metal used to convey air in case of installation of vertical or horizontal recessed fan coil.

RDA STRAIGHT CONNECTION FOR AIR INTAKE
Galvanised sheet metal used to convey intake air in case of installation of vertical or horizontal recessed fan coil.

RP CONNECTION AT 90° FOR AIR DELIVERY
Galvanised sheet metal used to convey air in case of installation of vertical or horizontal recessed fan coil.

RPA CONNECTION AT 90° FOR AIR INTAKE
Galvanised sheet metal used to convey intake air in case of installation of vertical or horizontal recessed fan coil.

RX ELECTRIC RESISTANCE
Armoured electric resistance, complete with safet thermostat. It is available as an accessory for all versions.

SE FRESH AIR DAMPER
Foreseen for versions A, AS, ACB, ACT, APC, P, PPC, PO and PE with skirting and allows the changing of air in the room. It is mounted at the base of the fan coil, between the skirting. The manual control is loacted on the right skirting.

SIT 3
Each fan coil has a SIT3 card that becomes Slave and can be controlled by a central control panel with electromechanic selector or with SIT5. Up to 10 fan coils can be applied with SIT 3 and one central control unit. **The electronic control panels and those equipped with valve controls must be interfaced with a SIT 5.** The electronic control panels with speed control only can be connected directlt to the SIT 3 without interface SIT 5.

SIT 5
The SIT 5 accessory, interface master card Master, is connected to electronic control panels or electromechanic control panels with valave controls and /or electric resistances. The SIT 5 interface card connected (up to 10) are all equipped with interface Slave SIT3**.**

SW3 MINIMUM WATER TEMPERATURE PROBE
The SW3 accessory is a probe for detecting the water temperature of the heating coil to prevent functioning when the temperature is less than 39°C. The SW3 probes are powered by a 230V single phase voltage. The probes are equipped with cables 2500mm long.

VCF 3 WAY VALVE KIT
The SW3 probe must be combined to this accessory.
Kit complete with copper connections and 3 way valves all or nothing type, to be powered by a 230 V ~ 50Hz voltage supply.
They are available for fan coils :
- with 3 row coil 4 (VCF41, VCF42, VCF43),
- with 4 row coil(VCF42, VCF43),
- with 1 row additional coil (BV) (VCF44, VCF45).

*** Attention: The VCF valve and the drip tray BC4 can be installed at the same time as the fan coil.**

ZX5 - ZX6 SKIRTING FOR HIGH CABINET
In plastic, mounted at the base of the cabinet when the appliance is placed on the floor.

ZX7 - ZX8 SKIRTING FOR WALL VERSION
In galvanised steel, mounted at the base of the cabinet when the appliance is placed on the floor and recessed into the wall.

CONTROL PANEL

FMT10 CONTROL PANEL WITH ELECTRONIC THERMOSTAT FOR WALL RECESSING

Electronic thermostat for fan coils installed on plants with 4 pipes, 2 pipes and 2 pipes with resistance, with the possibility of connecting 2 On - Off valves for the interception of coil feeding water. Simplified controls with only 2 selector switches for temperature control and fan control (3 speed). External air probe (cable length 6 metres, supplied with the probe-holder) to be positioned inside the fan coil. Recess installation (module 503).
For further information refer to the accessory instructions.

FMT20 CONTROL PANEL WITH ELECTRONIC THERMOSTAT AND LCD FOR WALL RECESSING

Electronic thermostat with LCD for fan coils installed on plants with 4 pipes, 2 pipes and 2 pipes with resistance with the possibility of connecting 2 On - Off valves for the interception of coil feeding water. Air temperature probe inside panel.
Recess installation (module 503).

KTL M REMOTE CONTROL KIT WITH THERMOSTAT

Kit with adjustment thermostat made up from an I.R. remote control, an I.R receiver, a circuit board with air temperature probe, the connection cable, brackets and fixing equipment. KTLM can be applied to a fan coil installed in a plant with 2 pipes with or without water valve or with 4 pipes with water valve. For fan coils with cabinet in the FCX series.
For further information refer to the accessory instructions.

KTL P REMOTE CONTROL KIT WITH THERMOSTAT

Kit with adjustment thermostat made up from an I.R. remote control, an I.R receiver, a circuit board with air temperature probe, the connection cable, brackets and fixing equipment. can be applied to a fan coil installed in a plant with 2 pipes with or without water valve or with 4 pipes with water valve. For fan coils with cabinet in the FCX series.
For further information refer to the accessory instructions.

PCT2 CONTROL PANEL WITH THERMOSTAT

Control panel with electro-mechanical thermostat for plants with 2 pipes with ventilation thermostating.

PTI MULTI-FUNCTION CONTROL PANEL WITH THERMOSTAT

Electronic control panel for plants with two pipes, with electronic multi-function thermostat; it has the same functions as the “electronic multi-function thermostat installed in the ACT version”. Installation on board and on wall.
For further information refer to the accessory instructions.

PX2 CONTROL PANEL WITH SWITCH-OVER

Control panel for the manual control of fan speed, made up of an on/off switch-over with 3 positions for the selection of fan speed. Installation on board and on wall.
For further information refer to the accessory instructions.

PXA E CONTROL PANEL WITH ELECTRONIC MULTI-FUNCTION THERMOSTAT

Eltronic multi-function room thermostat in plants with two or four pipes. Simplified controls with only two selector switched for control of the temperature and ventilation, 3 speed + automatic speed, on-off and automatic summer/winter switch-over, depending on the temperature of the water. The SW minimum water temperature probe is available as an accessory, which prevents functioning in central heating mode with water temperature below 35°C. Wall installation.
For further information refer to the accessory instructions.

PXA I CONTROL PANEL WITH ELECTRONIC MULTI-FUNCTION THERMOSTAT

Electronic multi-function room thermostat for fan coils in plants with two or four pipes. Simplified controls with only two selector switched for control of the temperature and ventilation, 3 speed + automatic speed, on-off and automatic summer/winter switch-over, depending on the temperature of the water. Complete with minimum water temperature probe, which prevents functioning in central heating mode with water temperature below 35°C.
Installation on board.
For further information refer to the accessory instructions.

PXA R CONTROL PANEL WITH ELECTRONIC MULTI-FUNCTION THERMOSTAT

Electronic multi-function room thermostat for fan coils in plants with two pipes and electric resistance. Simplified controls with only two selector switched for control of the temperature and ventilation, 3 speed + automatic speed, on-off, activation of the electric resistance when desired and automatic summer/winter switch-over, depending on the temperature of the water. Complete with minimum water temperature probe, which prevents functioning in central heating mode with water temperature below 35°C. By means of appropriate configuration of the board dip-it can also be used in plants without electric resistance, with two or four pipes. For installation on the machine or wall installation.
For further information refer to the accessory instructions.

PXBI ELECTRONIC CONTROL PANEL

Control panel with electronic room thermostat with simplified functions. It has the same functions as the “Thermostat installed on the ACB version”. The room temperature probe is positioned inside the thermostat.
The thermostat cannot be coupled with a water temperature probe. Installation on board.
For further information refer to the accessory instructions.

PXLM MULTIFUNCTION CONTROL PANEL

Kit for motorization of the fins and control with a control panel. Consists of a control panel with electronic thermostat, a motor to be fitted to the delivery fins, a feed card and probes for detecting water and air temperature.
The PXLM controls the operation of a fan coil inserted in a two-pipe hydraulic plant.
The control parameters of the electronic panel may be programmed even after installation, simply be pressing the two buttons.
Ideally the panel is for wall installation, but can also be fitted on board the unit provided that the ambient probe used is external to the fan coil (excluding that inside the panel) and that suitable corrections are made to the probe calibration. For further information, see the instructions coming with the accessory.

WMT05 CONTROL PANEL WITH THERMOSTAT

Electronic thermostat for fan coils installed in plants with 2 pipes. The panel is protected electrically by an internal fuse. Wall installation. For further information refer to the accessory instructions.

WMT10 CONTROL PANEL WITH THERMOSTAT

Electro-mechanical thermostat for fan coils installed in plants with 4 pipes, 2 pipes and 2 pipes with resistance, with the possibility to connect two On - Off valves for the interception of coil feeding water.
The panel is protected electrically by an internal fuse. Continuous or thermostated ventilation. Wall installation.

ACCESSORIES

Consult the table of compatibility for the selection.

Accessory		Fan Coil FCX								
		Size								Version
		17	22 - 24	32 - 34	42 - 44	50 - 54	62 - 64	82 - 84	102	
AMP		✔	✔	✔	✔	✔	✔	✔	✔	P-PPC-PO-PE-U-UE
	4	✔	✔	✔	✔	✔	✔	✔	✔	all
	5	✔	✔	✔	✔	✔				P-PPC-PO-PE-U-UE
BC	6						✔	✔	✔	P-PPC-PO-PE-U-UE
	8 (*)	✔	✔	✔	✔	✔				P-PPC-PO-PE
	9 (*)						✔	✔	✔	P-PPC-PO-PE
	117 (**)	✔								A-AS-ACT-ACB-P-U
	122 (**)		✔							A-AS-ACT-ACB-P-PO-U
BV	132 (**)			✔						A-AS-ACT-ACB-P-PO-U
	142 (**)				✔	✔				A-AS-ACT-ACB-P-PO-U
	162 (**)						✔	✔	✔	A-AS-ACT-ACB-P-PO-U
	17	✔								P-PPC-PO-PE
	22		✔							P-PPC-PO-PE
CHF	32			✔						P-PPC-PO-PE
	42				✔	✔				P-PPC-PO-PE
	62						✔	✔	✔	P-PPC-PO-PE
DSC	4	✔	✔	✔	✔	✔	✔	✔	✔	all
	17	✔								P-PPC-PE
	22		✔							P-PPC-PO-PE
GA	32			✔						P-PPC-PO-PE
	42				✔	✔				P-PPC-PO-PE
	62						✔	✔	✔	P-PPC-PO-PE
	17	✔								P-PPC-PE
	22		✔							P-PPC-PO-PE
GAF	32			✔						P-PPC-PO-PE
	42				✔	✔				P-PPC-PO-PE
	62						✔	✔	✔	P-PPC-PO-PE
	17	✔								P-PPC-PE
	22		✔							P-PPC-PO-PE
GM	32			✔						P-PPC-PO-PE
	42				✔	✔				P-PPC-PO-PE
	62						✔	✔	✔	P-PPC-PO-PE
	17 (*)	✔								P-PPC-PO-PE
	22 (*)		✔							P-PPC-PO-PE
MA	32 (*)			✔						P-PPC-PO-PE
	42 (*)				✔	✔				P-PPC-PO-PE
	62 (*)						✔	✔	✔	P-PPC-PO-PE
	17 (*)	✔								P-PPC-PO-PE
	22 (*)		✔							P-PPC-PO-PE
MU	32 (*)			✔						P-PPC-PO-PE
	42 (*)				✔	✔				P-PPC-PO-PE
	62 (*)						✔	✔	✔	P-PPC-PO-PE
	17	✔								P-PPC-PE
	22		✔							P-PPC-PO-PE
PA	32			✔						P-PPC-PO-PE
	42				✔	✔				P-PPC-PO-PE
	62						✔	✔	✔	P-PPC-PO-PE
	17	✔								P-PPC-PE
	22		✔							P-PPC-PO-PE
PA F	32			✔						P-PPC-PO-PE
	42				✔	✔				P-PPC-PO-PE
	62						✔	✔	✔	P-PPC-PO-PE
	17	✔								A-AS-ACT-ACB-APC
	18	✔								U
	22		✔							A-AS-ACT-ACB-APC
	23		✔							U-UE
PC	32			✔						A-AS-ACT-ACB-APC
	33			✔						U-UE
	42				✔	✔				A-AS-ACT-ACB-APC
	43				✔	✔				U-UE
	62						✔	✔	✔	A-AS-ACT-ACB-APC-U-UE
PCR	1	✔	✔	✔	✔	✔				P-PPC-PO-PE
	2						✔	✔	✔	P-PPC-PO-PE
	17	✔								P-PPC-PE
	22		✔							P-PPC-PO-PE
PM	32			✔						P-PPC-PO-PE
	42				✔	✔				P-PPC-PO-PE
	62						✔	✔	✔	P-PPC-PO-PE

English

Accessory		FCX Fan coil								
		Size								Version
		17	22 - 24	32 - 34	42 - 44	50 - 54	62 - 64	82 - 84	102	
RD	17	✔								P-PPC-PE
	22		✔							P-PPC-PO-PE
	32			✔						P-PPC-PO-PE
	42				✔	✔				P-PPC-PO-PE
	62						✔	✔	✔	P-PPC-PO-PE
RDA	17	✔								P-PPC-PE
	22		✔							P-PPC-PO-PE
	32			✔						P-PPC-PO-PE
	42				✔	✔				P-PPC-PO-PE
	62						✔	✔	✔	P-PPC-PO-PE
RP	17	✔								P-PPC-PE
	22		✔							P-PPC-PO-PE
	32			✔						P-PPC-PO-PE
	42				✔	✔				P-PPC-PO-PE
	62						✔	✔	✔	P-PPC-PO-PE
RPA	17	✔								P-PPC-PE
	22		✔							P-PPC-PO-PE
	32			✔						P-PPC-PO-PE
	42				✔	✔				P-PPC-PO-PE
	62						✔	✔	✔	P-PPC-PO-PE
RX	17 (**)	✔								A-AS-P-PPC-U
	22 (**)		✔							A-AS-P-PO-PE-U-UE
	32 (**)			✔						A-AS-P-PO-PE-U-UE
	42 (**)				✔					A-AS-P-PO-PE-U-UE
	52 (**)					✔				A-AS-P-PO-PE-U-UE
	62 (**)						✔	✔	✔	A-AS-P-PO-PE-U-UE
SE	15X (***)	✔								A-AS-ACT-ACB-P
	20X (***)		✔							A-AS-ACT-ACB-P-PO-PE
	30X (***)			✔						A-AS-ACT-ACB-P-PO-PE
	40X (***)				✔	✔				A-AS-ACT-ACB-P-PO-PE
	80X (***)						✔	✔	✔	A-AS-ACT-ACB-P-PO-PE
SIT3		✔	✔	✔	✔	✔	✔	✔	✔	AS-P-PO-U
SIT5		✔	✔	✔	✔	✔	✔	✔	✔	AS-P-PO-U
SW3		✔	✔	✔	✔	✔	✔	✔	✔	AS-P-PO-U
VCF	41 (****)	✔	✔	✔						A-AS-ACT-ACB-P-PPC-PO-U
	42 (****)				✔	✔				A-AS-ACT-ACB-P-PPC-PO-U
	43 (****)						✔	✔	✔	A-AS-ACT-ACB-P-PPC-PO-U
	44 (****)	✔	✔	✔	✔	✔				A-AS-P-PPC-PO-U
	45 (****)						✔	✔	✔	A-AS-P-PPC-PO-U
ZX	5	✔	✔	✔	✔	✔				A-AS-ACT-ACB
	6						✔	✔	✔	A-AS-ACT-ACB
	7	✔	✔	✔	✔	✔				P-PPC-PO-PE
	8						✔	✔	✔	P-PPC-PO-PE

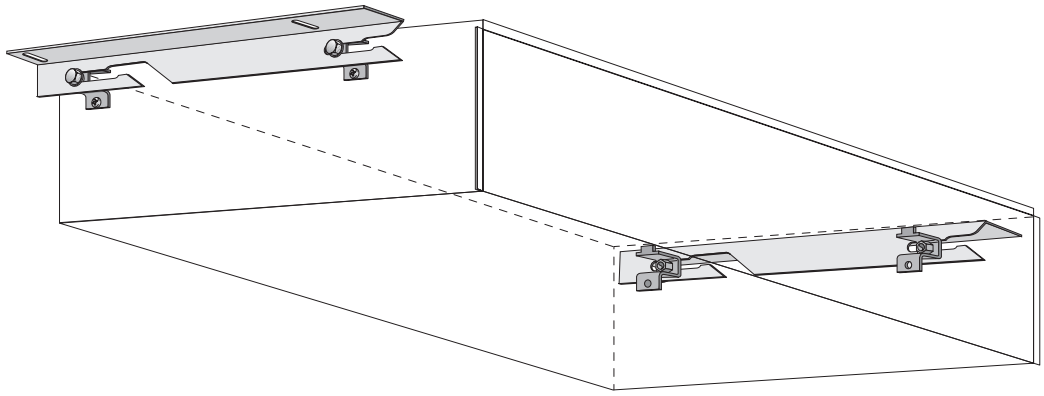
The 4-row models are only available in the P and PO versions
(*) **BC8** and **BC9** are not applicable to fan coils with cover cabinets.(**) For the 4-row model, accessories RX and BV are not available..
(***) SE accessories are matched with ZX feet
(****) The 4-row models may only be used in combination with valves VCF42 (FCX 24-34-44-54) e VCF43 (FCX 64-84).

COMBINATION OF PANELS/ FAN COILS

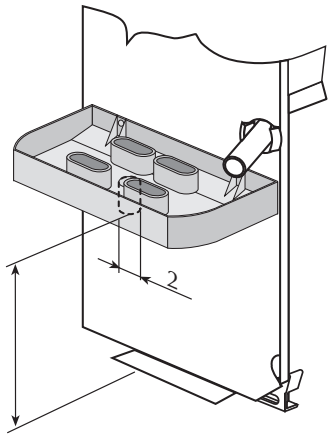
Mod.	IN	OUT	FCX - AS	FCX 17-50 U	FCX 62-102 U	FCX - P	FCX - PO
FMT10		✔	✔	✔	✔	✔	✔
FMT20		✔	✔	✔	✔	✔	✔
KTLM	✔		✔	✔	✔		
KTLP	✔					✔	✔
PCT2		✔	✔	✔	✔	✔	✔
PTI	✔		✔		✔		
PX2	✔	✔	✔	✔	✔	✔	✔
PXAE		✔	✔	✔	✔	✔	✔
PXAI	✔		✔	✔	✔		
PXAR	✔	✔	✔	✔	✔	✔	✔
PXBI	✔		✔	✔	✔	✔	✔
PXLM	✔	✔		✔			
WMT05		✔	✔	✔	✔	✔	✔
WMT10		✔	✔	✔	✔	✔	✔

IN = control panel installed on machine
OUT = wall-mounted control panel

AMP SUPPORTS FOR WALL/CEILING MOUNTING VERSION



BC4 DRIP TRAY

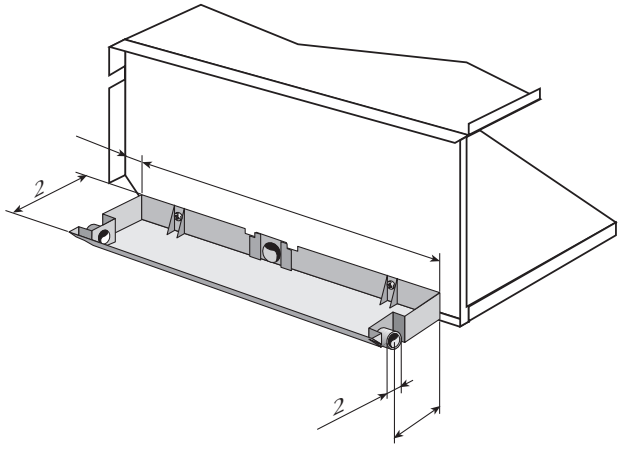


VCF valve and BC4 drip tray can not be contemporary installed on the same fan coil.

DIMENSIONS [mm]

Mod.	FCX 22÷50	FCX 62÷82
A [mm]	109	126

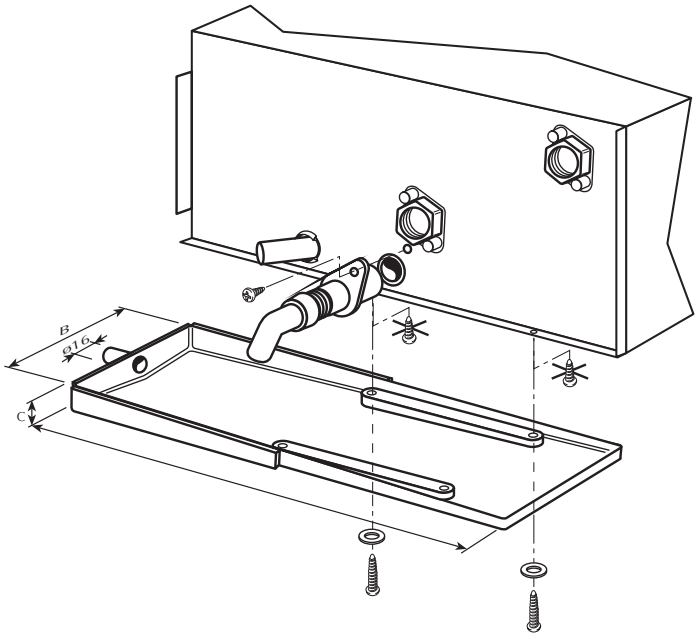
BC5-6 DRIP TRAY



DIMENSIONS [mm]

Mod.	BC 5	BC 6
A [mm]	375	476
B [mm]	69	72

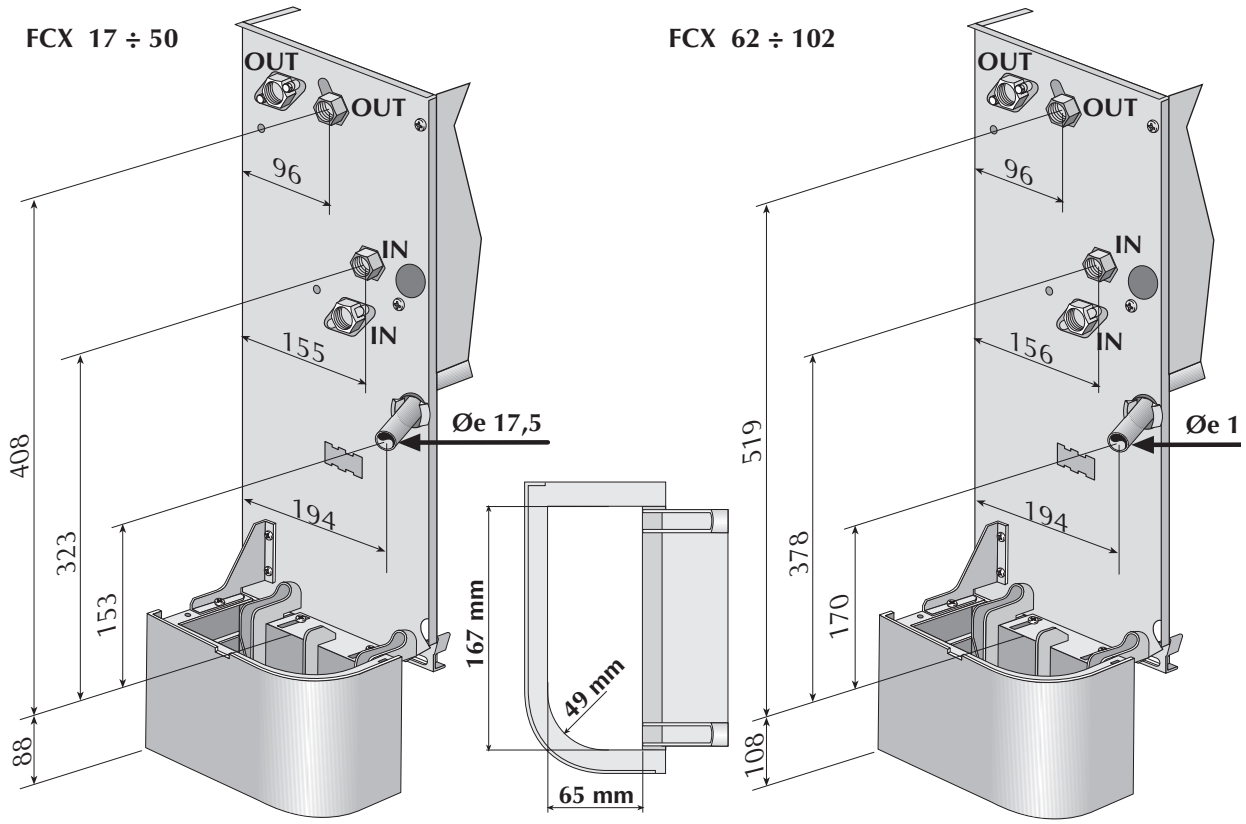
BC8-9 DRIP TRAY FOR HORIZONTALLY INSTALLATION



DIMENSIONS [mm]

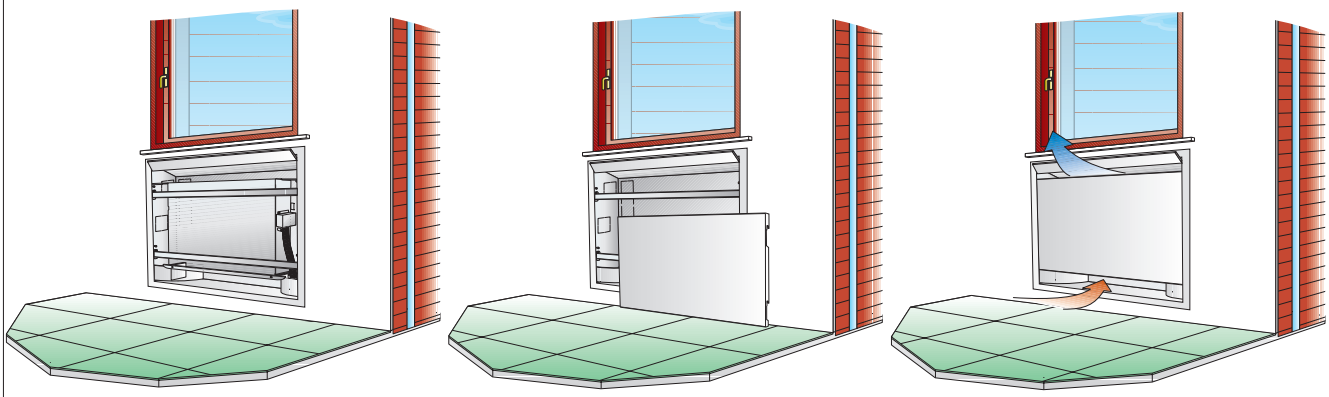
Mod.	BC 8	BC 9
A [mm]	420	524
B [mm]	146	146
C [mm]	25	25

BV 1-ROW HEATING COIL

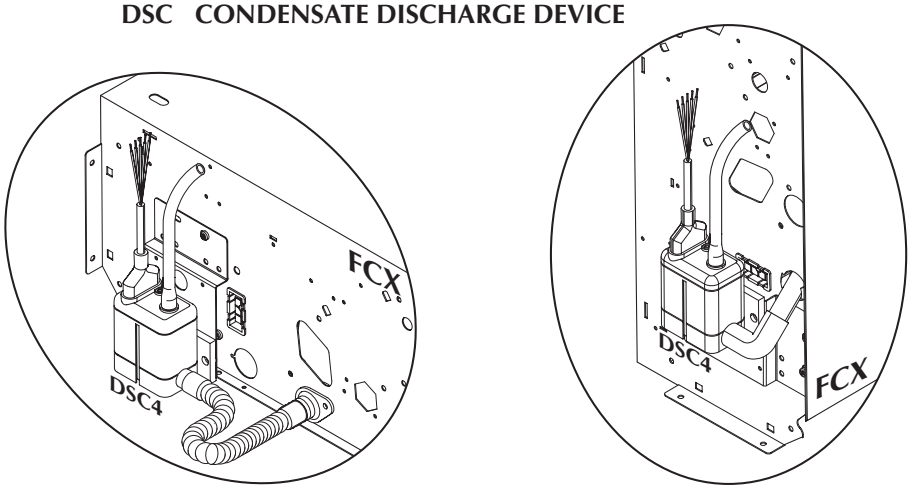


For FCX - U versions do not consider the foot - For all model the hydraulic attack are the following: 1/2" (female)

CHF VENTILCASSAFORMA

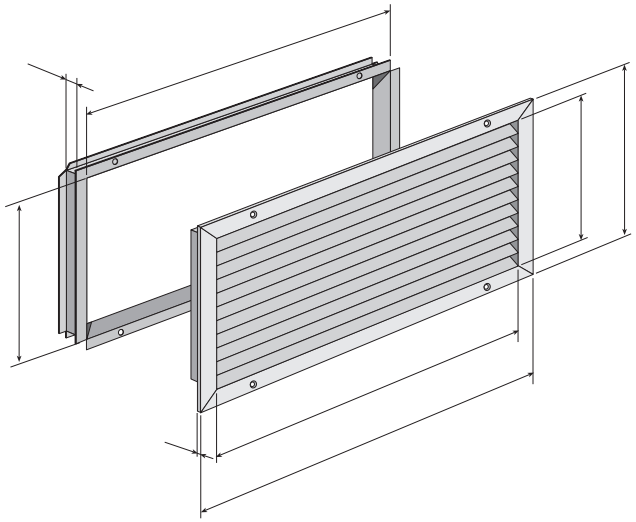


DSC CONDENSATE DISCHARGE DEVICE



English

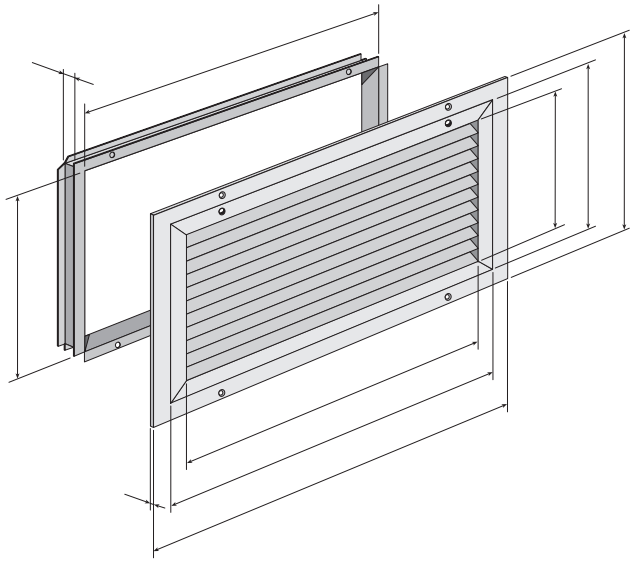
GA AIR SUCTION GRILL



DIMENSIONS [mm]

Mod.	A	B	C	D	E	F
GA 17	396	214	440	258	390	208
GA 22	506	214	550	258	500	208
GA 32	737	214	781	258	731	208
GA 42	957	214	1001	258	951	208
GA 62	1078	244	1122	288	1072	238

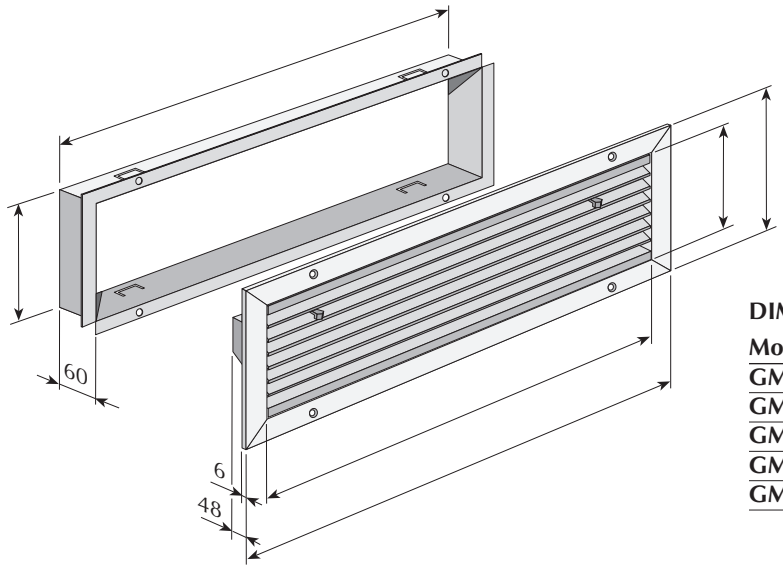
GAF AIR SUCTION GRILL



DIMENSIONS [mm]

Mod.	A	B	C	D	E	F	G	H
GAF 17	451	270	495	314	444	262	390	208
GAF 22	561	270	605	314	554	262	500	208
GAF 32	792	270	836	314	785	262	731	208
GAF 42	1012	270	1056	314	1005	262	951	208
GAF 62	1133	300	1177	344	1126	292	1072	238

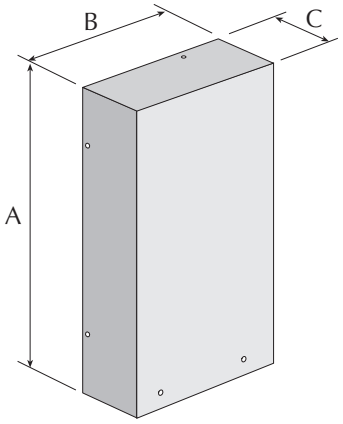
GM AIR DELIVERY GRILL



DIMENSIONS [mm]

Mod.	A	B	C	D	E	F
GM 17	347	134	392	178	342	128
GM 22	457	134	502	178	452	128
GM 32	688	134	733	178	683	128
GM 42	908	134	953	178	903	128
GM 62	1029	134	1074	178	1024	128

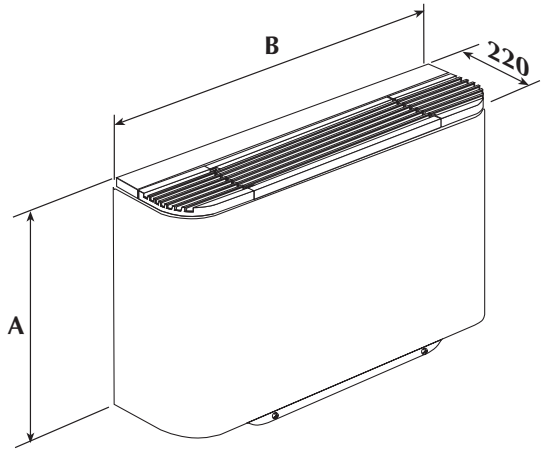
PCR RESISTANCE COVER PANEL



DIMENSIONS [mm]

Mod.	PCR 1	PC42
A [mm]	340	445
B [mm]	170	170
C [mm]	93	93

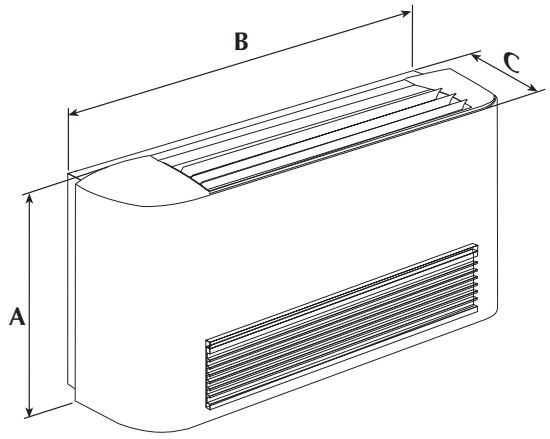
MA HIGH COVER CABINET



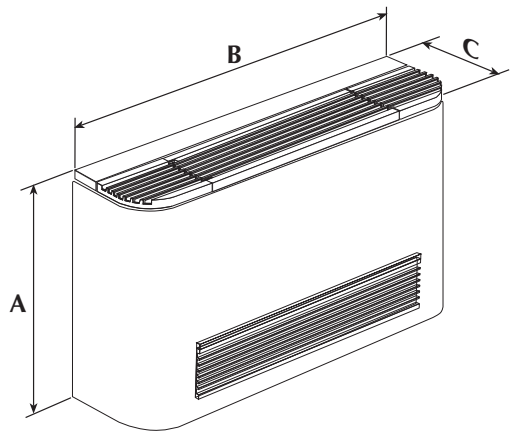
Mod.	MA 17	MA 22	MA 32	MA 42	MA 62
A [mm]	458	458	458	458	563
B [mm]	640	750	980	1200	1320

BC8 and BC9 are not compatible with MA accessories

MU UNIVERSAL COVER CABINET



MU 17 - 22 - 32 - 42 - 50

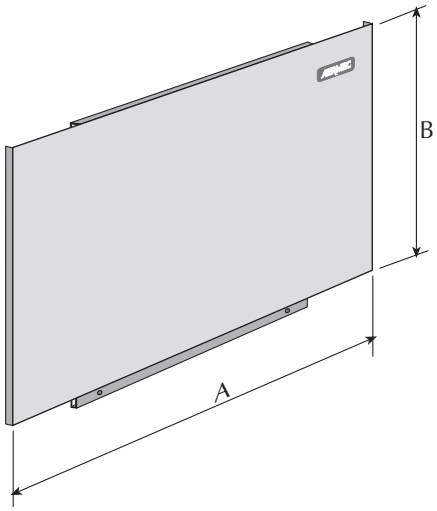


MU 62 - 82 - 102

Mod.	MU 17	MU 22	MU 32	MU 42	MU 62
A [mm]	520	520	520	520	590
B [mm]	640	750	980	1200	1320

BC8 and BC9 are not compatible with MU accessories

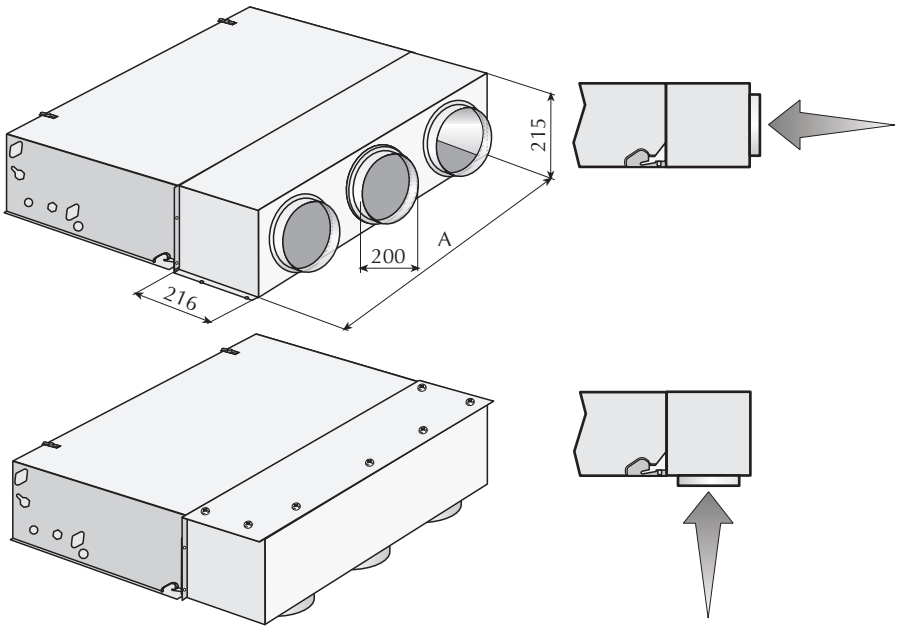
PC REAR CLOSING PANEL



DIMENSIONS [mm]

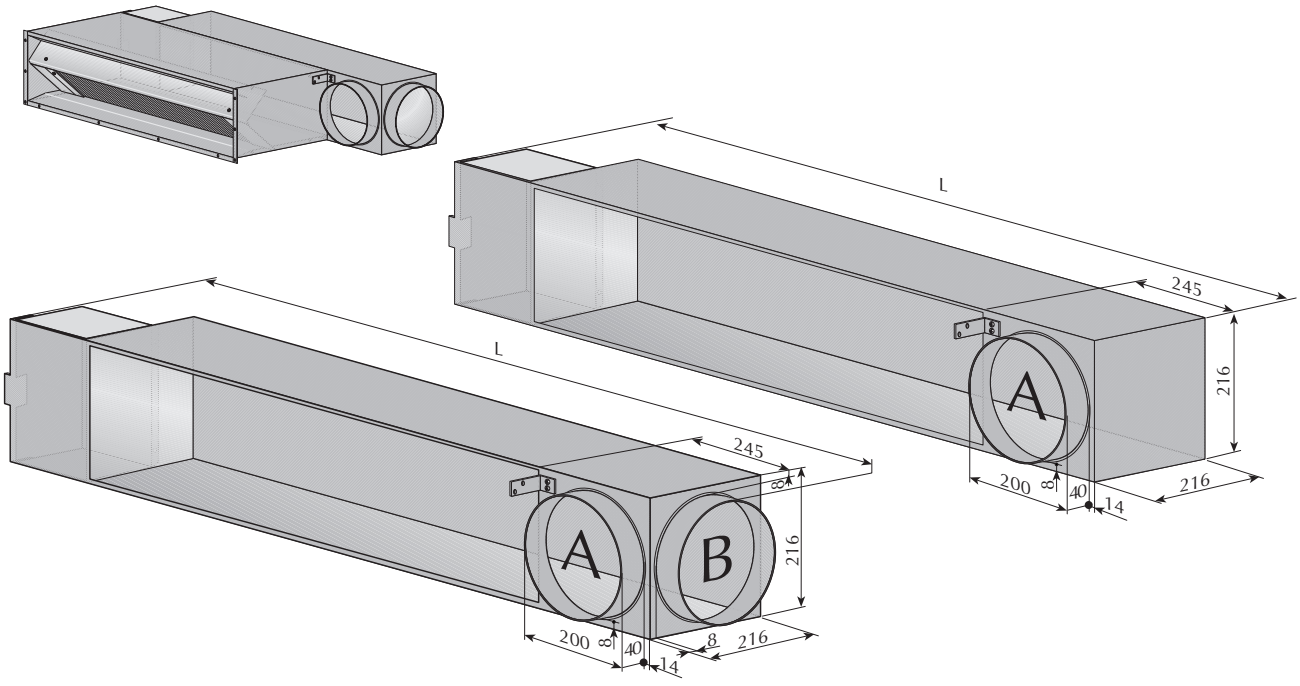
Mod.	PC 22	PC 32	PC42	PC62
A [mm]	740	971	1191	1312
B [mm]	437	437	437	542

PA INTAKE PLENUM



Mod.	PA 17	PA 22	PA 32	PA 42	PA 62
A [mm]	390	500	731	951	1072
No. of intake blocks	1	2	2	3	4

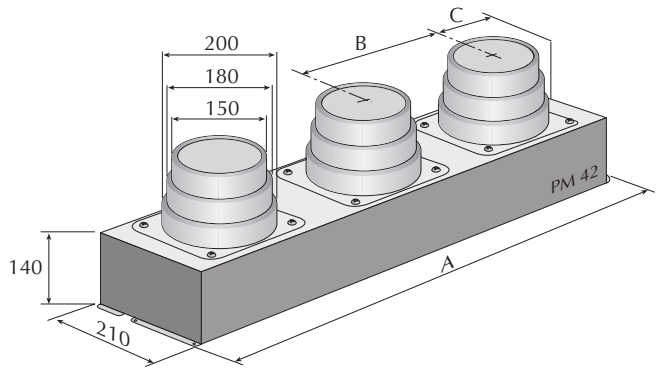
PA-F FRONT INTAKE PLENUM



Mod.	PA 17 F	PA 22 F	PA 32 F	PA 42 F	PA 62 F
L [mm]	658	768	1039	1259	1381
No. of intake blocks	1 (A)	1 (A)	2 (A+B*)	2 (A+B*)	2 (A+B)

B* = Closed intake mouth, to use it, remove the cut-out panel,in the plenum PA 42F used in combination with FCX 50/54 P - PO, the cut-out panel must be removed and the two intake mouths used.

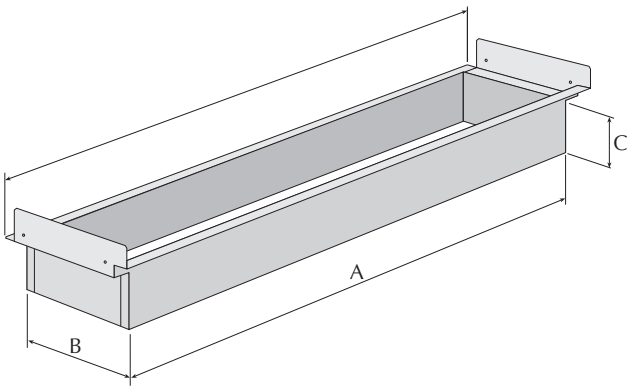
PM DELIVERY PLENUM



DIMENSIONS [mm]

Mod.	PM 22	PM 32	PM 42	PM 62
A [mm]	522	753	973	1094
B [mm]	250	370	320	270
C [mm]	136	191	166	142
No. delivery outlet blocks	2	2	3	4

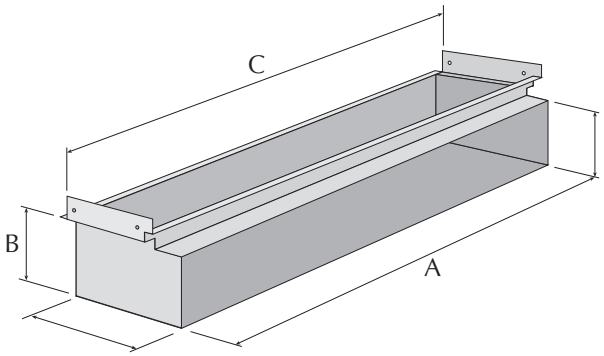
RDA STRAIGHT INTAKE CONNECTION



DIMENSIONS [mm]

Mod.	A	B	C	D
RDA 17	345	180	60	389
RDA 22	455	180	60	499
RDA 32	686	180	60	730
RDA 42	906	180	60	950
RDA 62	1027	180	60	1071

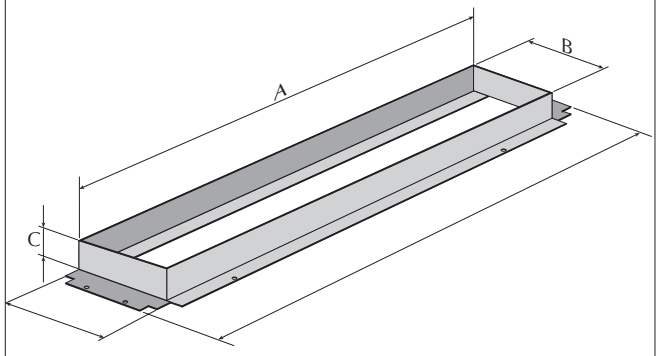
RPA 90° INTAKE CONNECTION



DIMENSIONS [mm]

Mod.	A	B	C	D	E
RPA 17	345	150	389	132	226
RPA 22	455	150	499	132	226
RPA 32	686	150	730	132	226
RPA 42	906	150	950	132	226
RPA 62	1027	150	1071	132	226

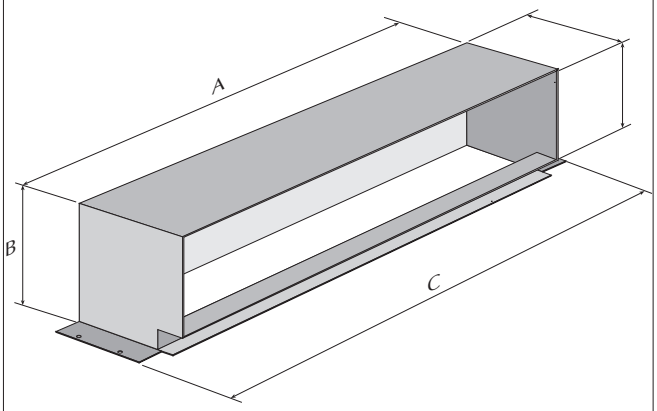
RD STRAIGHT DELIVERED CONNECTION



DIMENSIONS [mm]

Mod.	A	B	C	D	E
RD 17	345	132	60	412	149
RD 22	455	132	60	522	149
RD 32	686	132	60	753	149
RD 42	906	132	60	973	149
RD 62	1027	132	60	1094	149

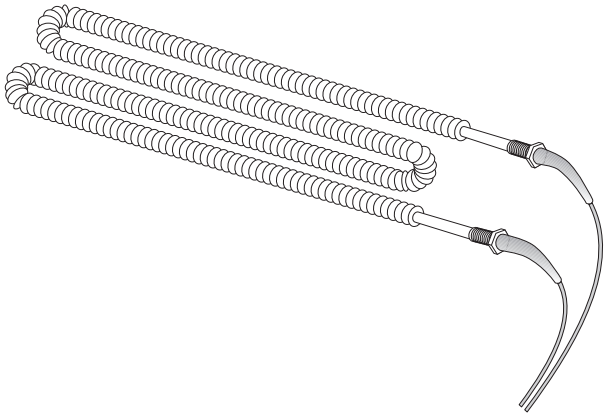
RP 90° DELIVERED CONNECTION



DIMENSIONS [mm]

Mod.	A	B	C	D	E
RP 17	345	156	412	132	161
RP 22	455	156	522	132	161
RP 32	686	156	753	132	161
RP 42	906	156	973	132	161
RP 62	1027	156	1094	132	161

RX ELECTRIC HEATER



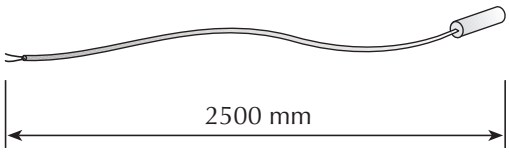
Resistance heating power [W]

RX 17	RX 22	RX 32	RX 42	RX 50	RX 62
700	950	1300	1650	1950	2200

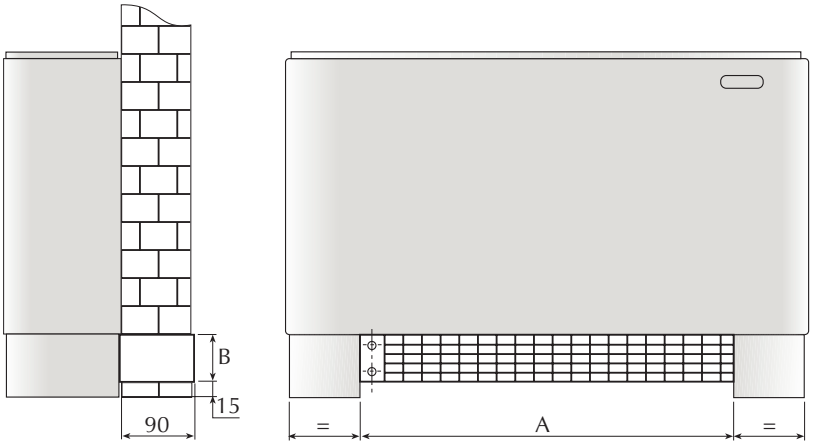
Current absorbed by the electric resistance[A]

RX 17	RX 22	RX 32	RX 42	RX 50	RX 62
3,04	4,13	5,65	7,17	8,48	9,57

SW3 MINIMUM WATER TEMPERATURE PROBE



SE FRESH AIR LOUVER



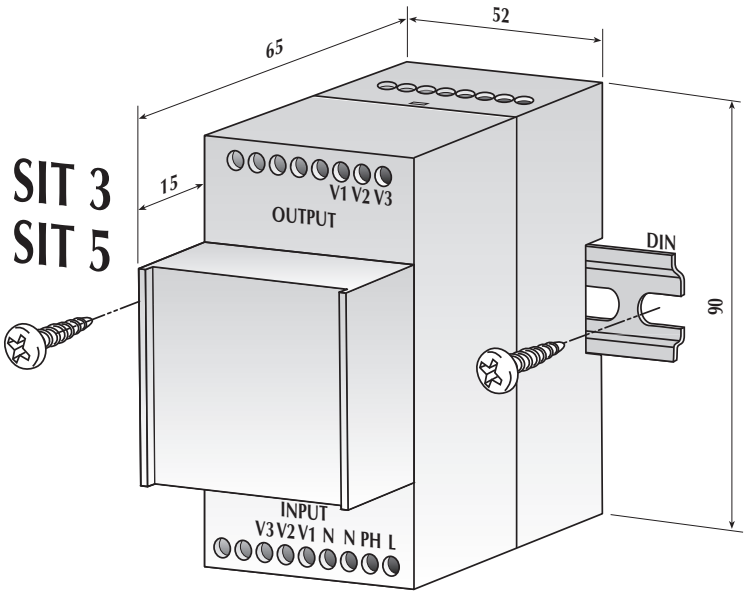
DIMENSIONS [mm]

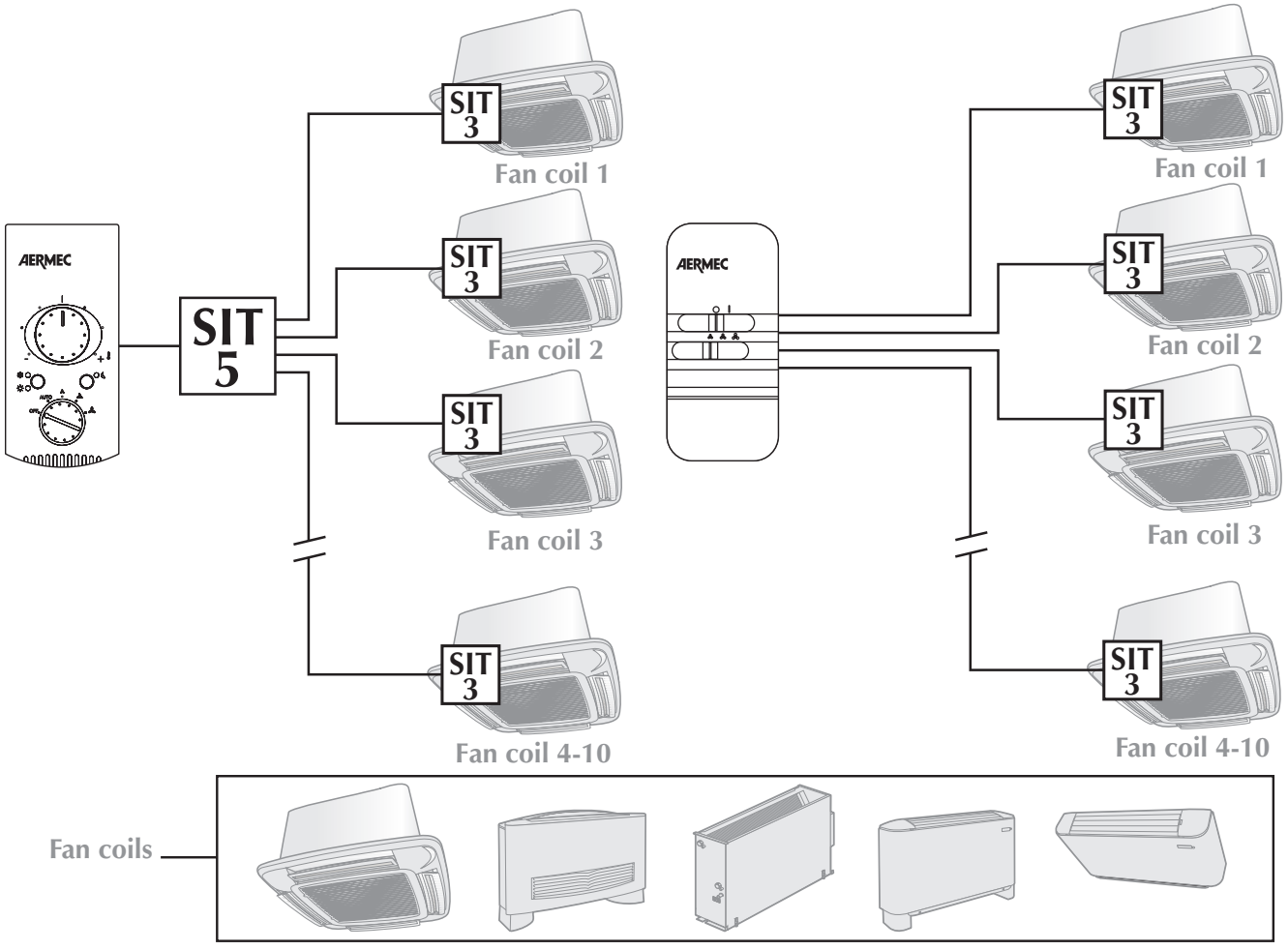
Mod.	SE 15 X	SE 20 X	SE 30 X	SE 40 X	SE 80 X
A	436	546	777	997	1118
B	65	65	65	65	85

HANDLED FRESH AIR

Mod.			FCX 17	FCX 22	FCX 32	FCX 42	FCX 50	FCX 62	FCX 82	FCX 102
Air flow	max	[m^3/h]	40	60	80	100	140	180	220	250
	med	[m^3/h]	35	50	70	80	115	160	190	210
	min.	[m^3/h]	30	40	50	65	90	120	150	170

SIT3 - SIT5 INTERFACE CARDS





TECHNICAL SPECIFICATIONS:

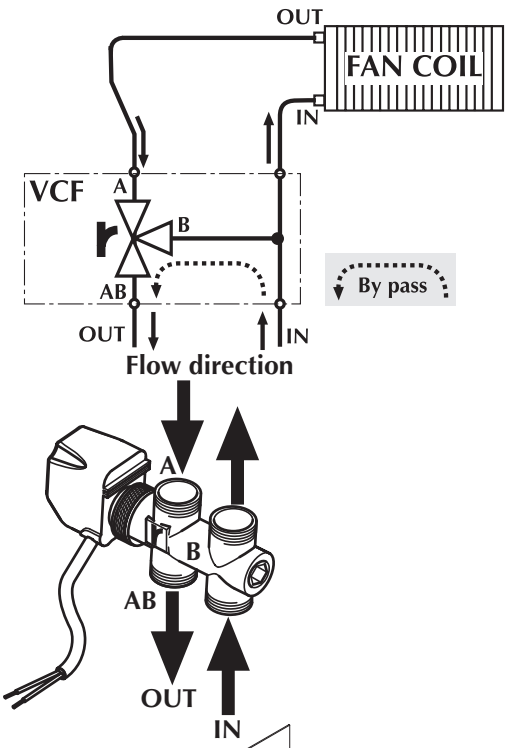
Power supply:	230V (±10%) ~ 50Hz
Start-up input power:	46VA
Operation input power:	2,5W
Water temperature range:	4°C ÷ 80°C
Liquids	acqua (con glicole ≤ 50%)
Operation time:	2 min ÷ 4min
Maximum differential pressure:	30kPa
Maximum work pressure applied to fan coil:	800kPa
Environmental working condition	
temperature:	0°C ÷ 40°C
relative humidity: without condensation	10% ÷ 90%
Storaging environmental condition	
temperature:	-18°C ÷ 60°C
relative humidity: without condensation	10% ÷ 90%
Actuator water protection degree:	IP44 acc.to EN 60529
Actuator electrical protection degree:	Classe II
Flow direction in the valve (see fig.)	
with fed valve	A - AB
with not fed valve	B - AB

Valve attack [mm]

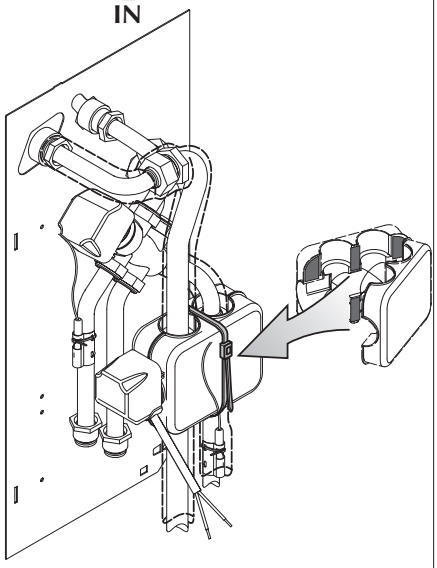
Mod.	**VCF 41**	**VCF 42**	**VCF 43**	**VCF 44**	**VCF 45**
A - AB - B	3/4″	3/4″	3/4″	1/2″	1/2″

Pressure drop

Mod.	**VCF 41**	**VCF 42**	**VCF 43**	**VCF 44**	**VCF 45**
Kvs AB-A	2,5	2,5	2,5	1,7	1,7
Kvs AB-B (by-pass)	1,6	1,6	1,6	1,2	1,2

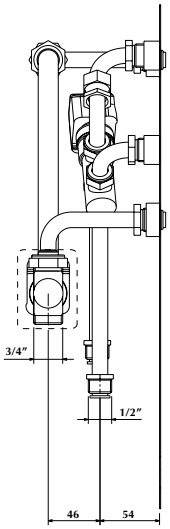


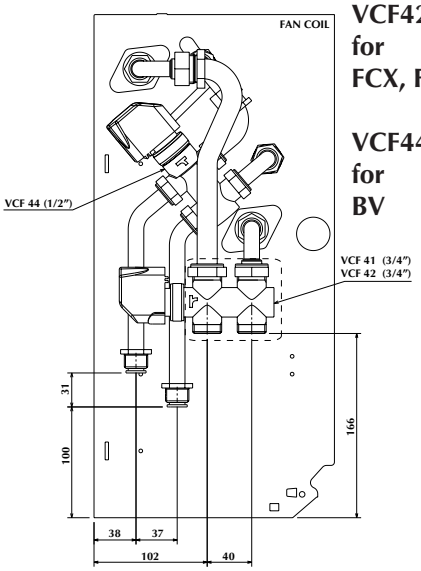
$$\Delta p = \left(\frac{10\ q}{Kvs}\right)^2$$ **Δp [kPa]** = Pressure drop
q [m³/h] = Water flow rate



VCF41
VCF42
for
FCX, FCS, FHX

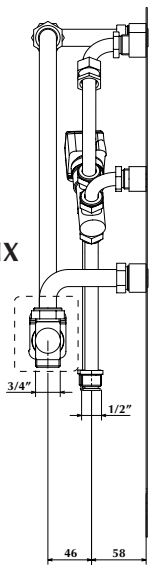
VCF44
for
BV

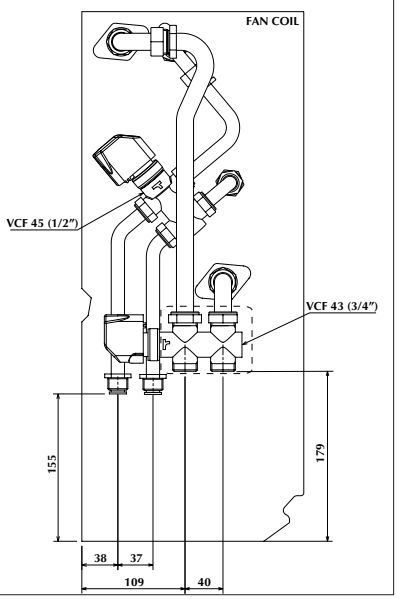




VCF43
for
FCX, FCS, FHX

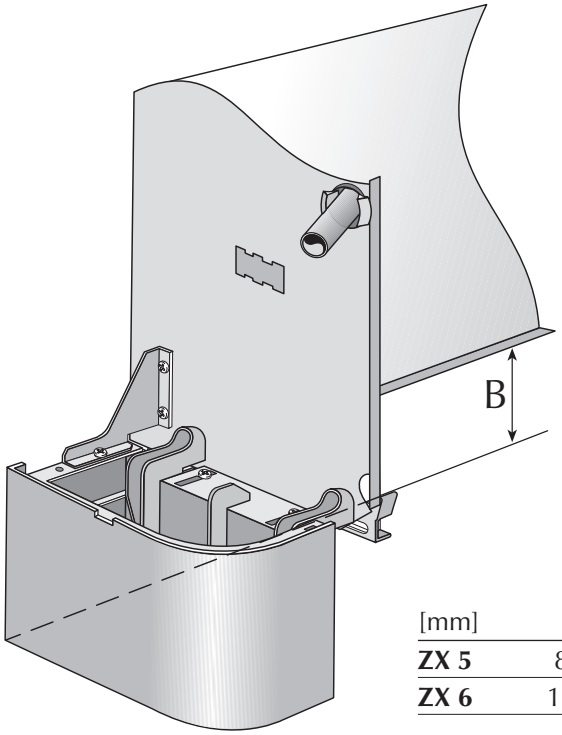
VCF45
for
BV

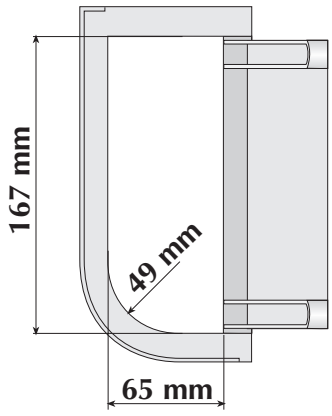


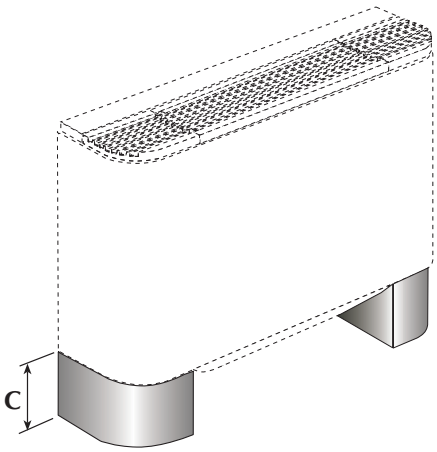


VCF valve and BC4 drip tray can not be contemporary installed on the same fan coil.

ZX 5-6 BASE SUPPORTS FOR HIGH CABINET

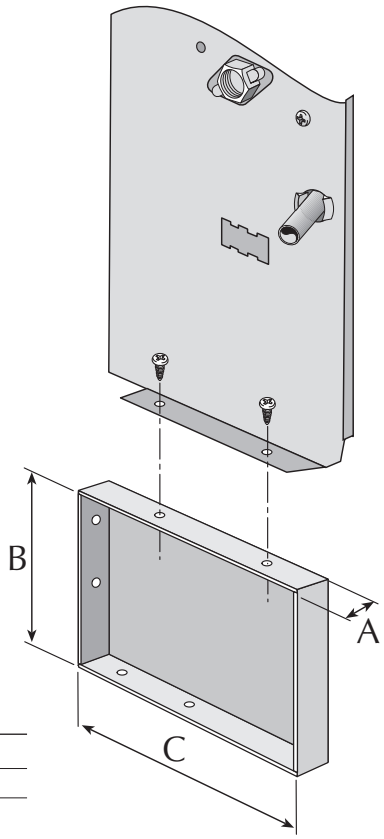






[mm]	B	C
ZX 5	88	105
ZX 6	108	125

ZX 7-8 BASE SUPPORTS FOR HANGING VERSION

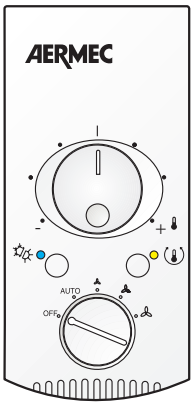


[mm]	A	B	C
ZX 7	20	88	199
ZX 8	20	108	199

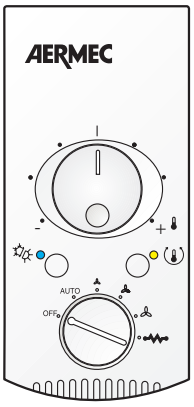
English

CONTROL PANELS WITH THERMOSTAT

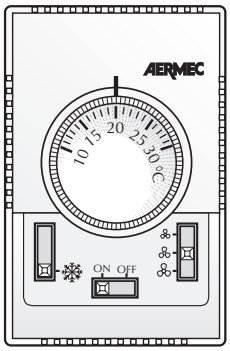
PXAE



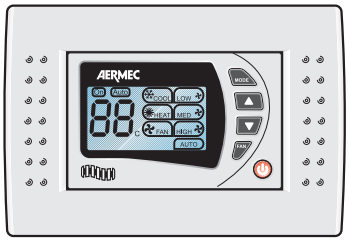
PXAR



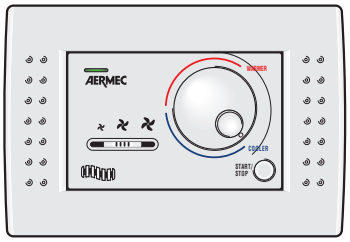
PCT2



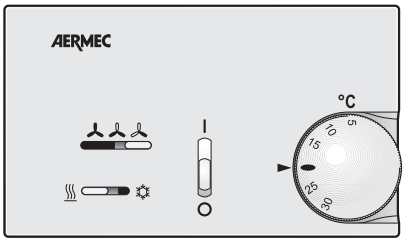
FMT20



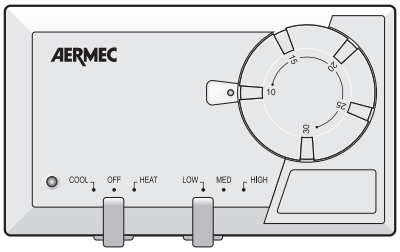
FMT10



WMT05

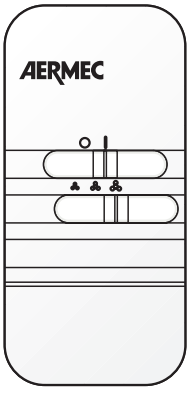


WMT10



CONTROL PANEL WITH SPEED SELECTOR SWITCH

PX2



WARNING: check that the power supply is disconnected before performing operations on the unit.
WARNING: before carrying out any interventions be prepared with suitable I.P.D.
WARNING: The appliance must be installed in compliance with national system regulations.
WARNING: wiring connections installation of the fancoil and relevant accessories should be performed by a technician who has the necessary technical and professional expertise to install, modify, extend and maintain plants and who is able to check the plants for the purposes of safety and correct operation.
WARNING: Install a device, master switch or plug that allows to completely interrupt the appliances electric power supply.
Here, find the indications essential for correct installation of the appliances.
Leave processing of all operations to the experience of the installer, according to specific requirements.
The fan coil must be installed in a position such that the air can be distributed throughout the entire room and there are no obstacles (curtains or objects) to the passage of the air from the intake grills.
The fan coil must be installed in a position such to allow easy routine (cleaning the filter) and extraordinary maintenance, as well as access to the air vent valve on the side of the frame (connections side).
The installation must not constitute a danger for persons.

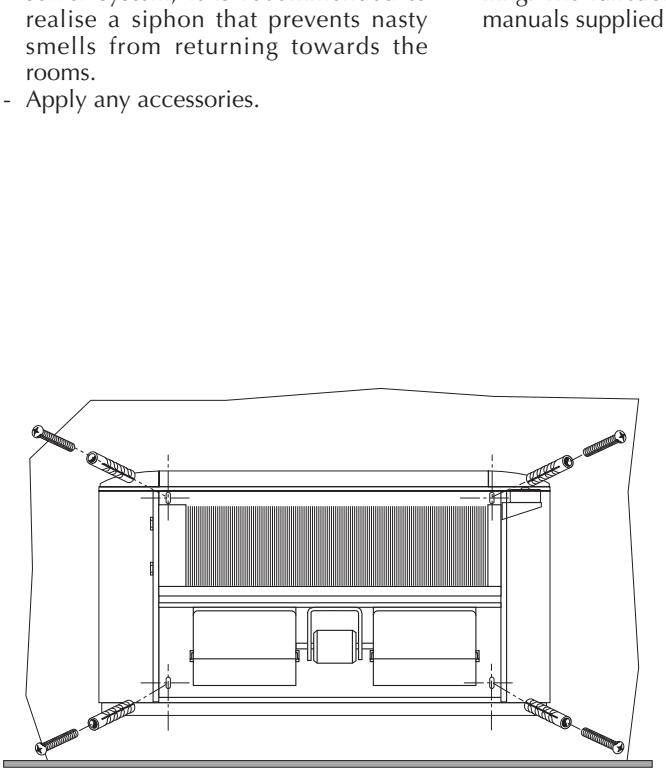
UNIT INSTALLATION

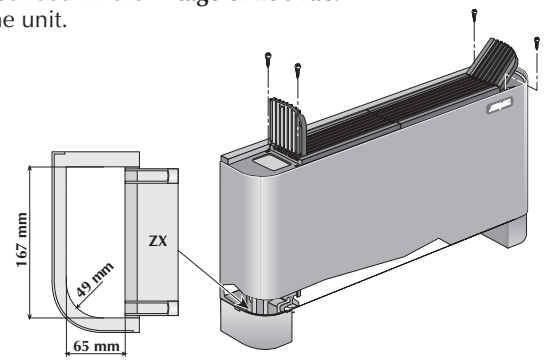
The place of assembly must be selected in a way that the maximum and minimum room temperature limit is respected 0÷45°C (<85% U.R.).
Follow the precautions given below when installing the unit:

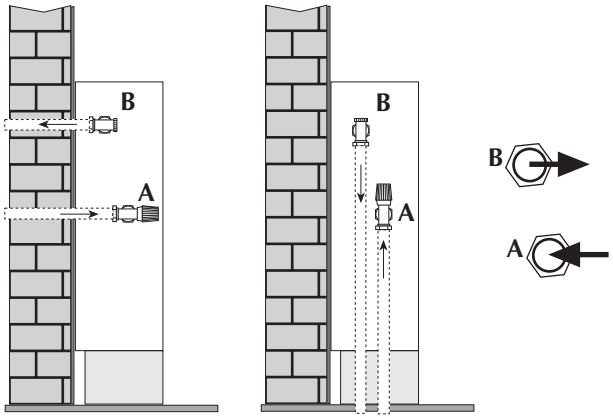
- In wall installation, maintain a minimum distance from the floor of 80 mm. In the case of floor installation using skirting, refer to the instructions supplied with the accessory.
- For wall fixing, use expansion plugs (not supplied)
- Make the hydraulic connections.
  The position and diameter of the hydraulic connections are stated in the dimensional data.
  It is advised to suitably insulate the water pipes or to install an auxiliary condensate collection basin, available as an accessory, in order to prevent dropping during functioning in cooling mode.
  The condensate drain network must be appropriately dimensioned and the piping positioned in a way to maintain an adequate slope along the route (min.1%). In case of draining into the sewer system, it is recommended to realise a siphon that prevents nasty smells from returning towards the rooms.
- Apply any accessories.
  If the 3-way VCF valve is installed, the water probe SW must be replaced with accessory SW3, whose bulb will be applied on the delivery pipe upstream from the valve.
  The VCF valve and the basin BC4 cannot be installed at the same time on the same fan coil.
- Make the electric connections according to that stated in the wiring diagrams and in the "Electric connections" chapter.
- To modify the settings of the electronic thermostat act on the Dip-Switches positioned inside the panel (see installation manual).
- Re-mount the cover, without forgetting, that for models that have one, to connect the room probe that must project outwards by about 3mm from the probe-holder and must be well-fixed using the relevant probe-block.
- Re-position the air filter.
- Check the correct functioning of the fan and any accessories.
  Some models with electronic thermostat, by means of the Autotest procedure, allow to check correct functioning. The function is described in the manuals supplied with the unit.

Electric connections
The electric circuits are connected to the mains voltage of 230V ~ 50Hz; all connections and components must therefore be isolated for this voltage.

FEATURES OF THE CONNECTION CABLES
Use cable type H05V-K or N07V-K with 300/500 V insulation recessed in a pipe or channel. All cables must be recessed in a pipe or channel until they reach the fan coil. The cables exiting the pipe or channel must be positioned in a way as not to undergo stress from traction or twisting and, however, protected from external agents
For all connections, follow the wiring diagrams supplied with the appliance and stated in this documentation.
To protect the unit against short circuits, mount a magnet omnipolar switch 2A 250V (IG) on the power supply line with a minimum opening distance of the contacts of 3mm.
Every control panel can control just one fan coil.
WARNING: the probes have double insulation as they are exposed to a voltage of 230Vac.



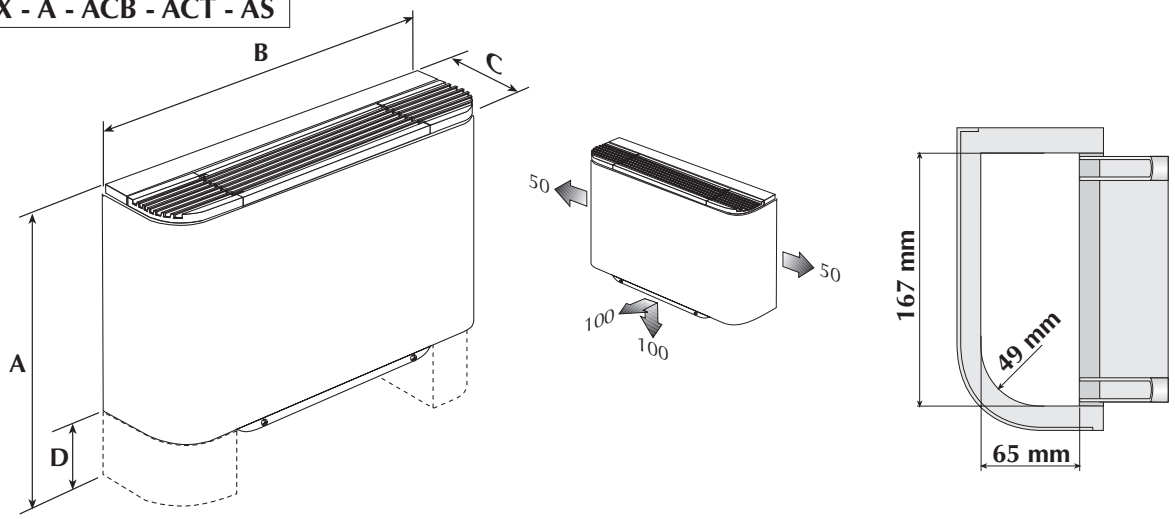




English

DIMENSIONS [mm]

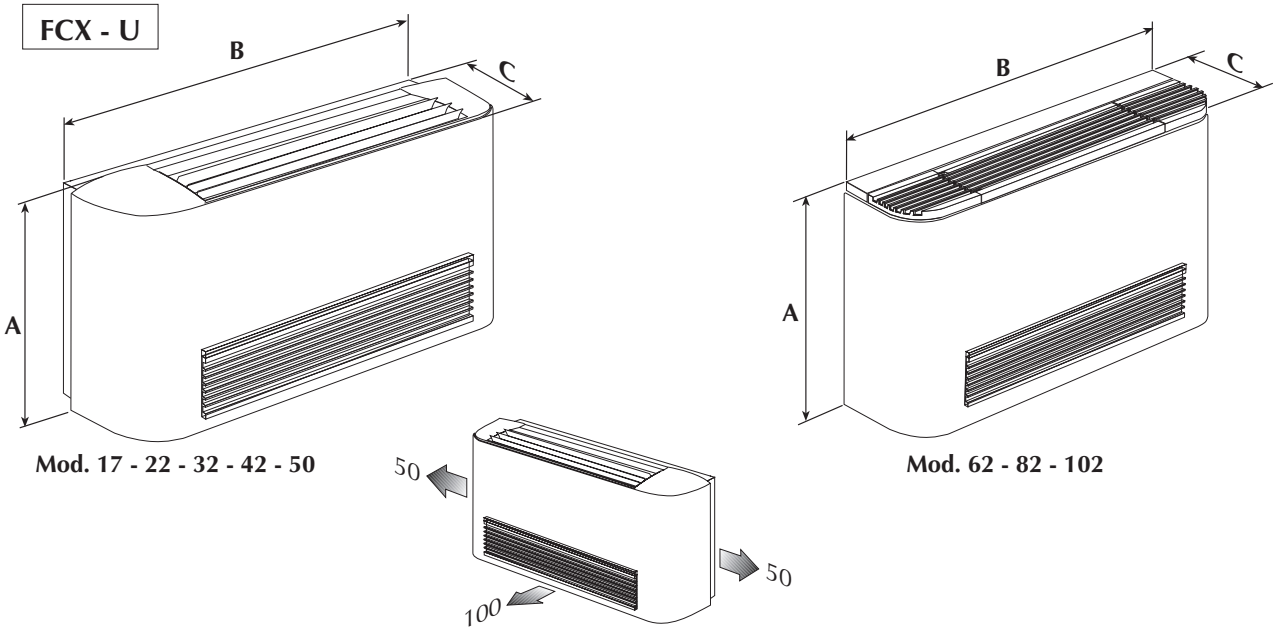
FCX - A - ACB - ACT - AS



Mod.	FCX 17	FCX 22	FCX 32	FCX 42	FCX 50	FCX 62	FCX 82	FCX 102
A	563	563	563	563	563	688	688	688
B	640	750	980	1200	1200	1320	1320	1320
C	220	220	220	220	220	220	220	220
D	105	105	105	105	105	125	125	125
Peso * [kg]	13	15	20	24	24	34	34	34

* Fan coil weight without feet

FCX - U

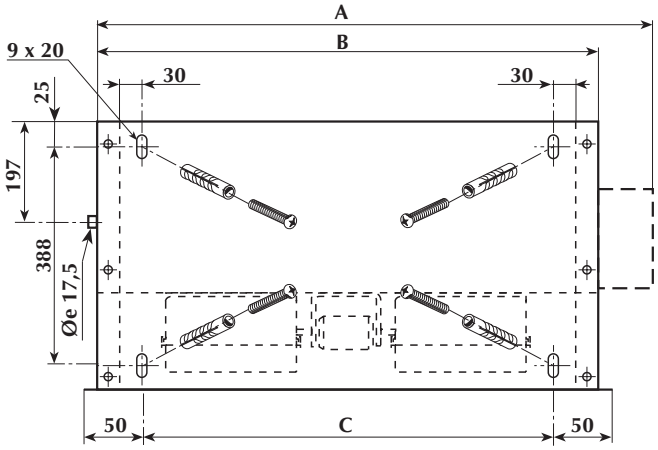


Mod. 17 - 22 - 32 - 42 - 50

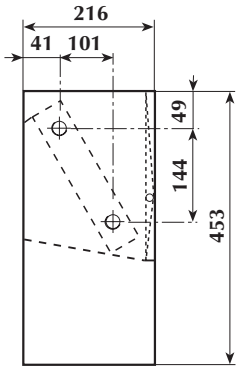
Mod. 62 - 82 - 102

Mod.	FCX 17	FCX 22	FCX 32	FCX 42	FCX 50	FCX 62	FCX 82	FCX 102
A	520	520	520	520	520	590	590	590
B	640	750	980	1200	1200	1320	1320	1320
C	220	220	220	220	220	220	220	220
Weight [kg]	13	15	20	24	24	34	34	34

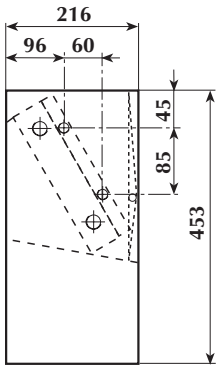
FCX 17 - 22 - 32 - 42 - 50
24 - 34 - 44 - 54



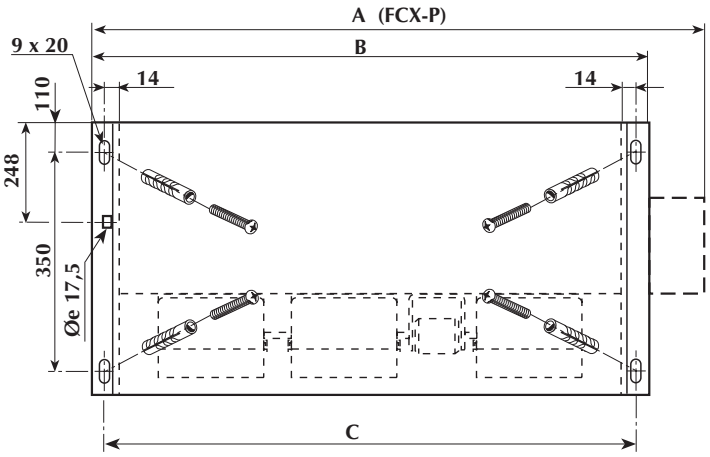
3 R



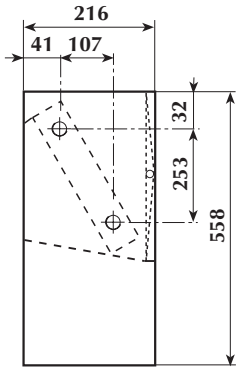
3 R + 1 R



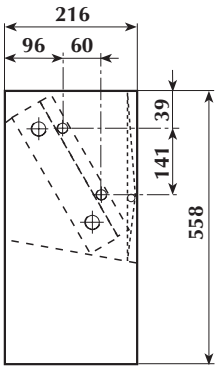
FCX 62 - 82 - 102
64 - 84



3 R



3 R + 1 R



FCX P - PO

Mod.		FCX 17	FCX 22 FCX 24	FCX 32 FCX 34	FCX 42 FCX 44	FCX 50 FCX 54	FCX 62 FCX 64	FCX 82 FCX 84	FCX 102
A	[mm]	452	562	793	1013	1013	1147	1147	1147
B	[mm]	412	522	753	973	973	1122	1122	1122
C	[mm]	330	440	671	891	891	1102	1102	1102

COIL CONNECTIONS

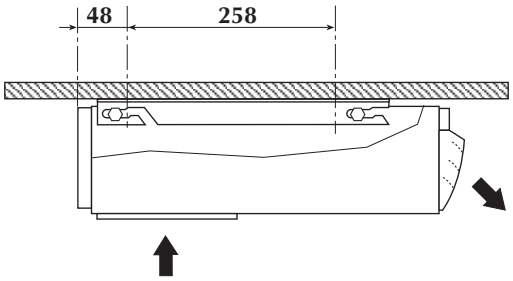
Mod.	FCX 17	FCX 22	FCX 32	FCX 42	FCX 50	FCX 62	FCX 82	FCX 102
3 R	1/2″	1/2″	1/2″	3/4″	3/4″	3/4″	3/4″	3/4″
1 R	1/2″	1/2″	1/2″	1/2″	1/2″	1/2″	1/2″	1/2″

Mod.	FCX 24	FCX 34	FCX 44	FCX 54	FCX 64	FCX 84
4 R	3/4″	3/4″	3/4″	3/4″	3/4″	3/4″

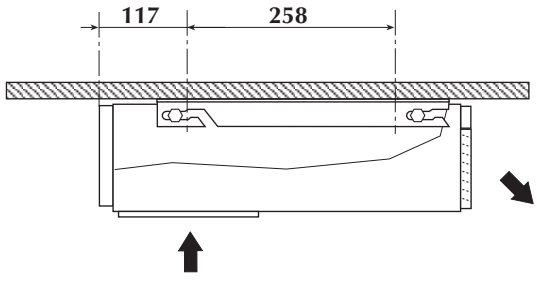
English

Installation with AMP supports (accessories)

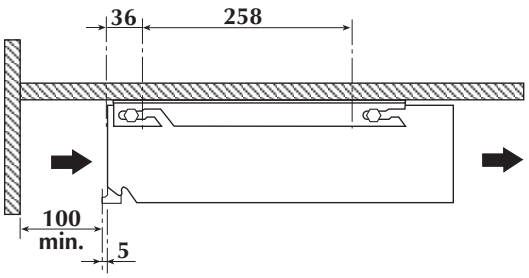
FCX-U 17 - 22 - 32 - 42 - 50



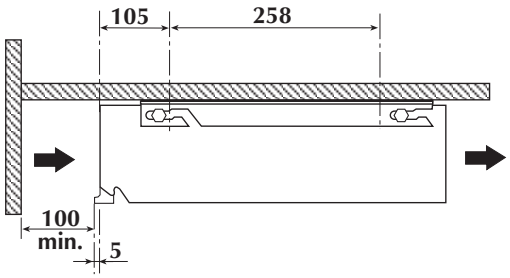
FCX-U 62 - 82 -102



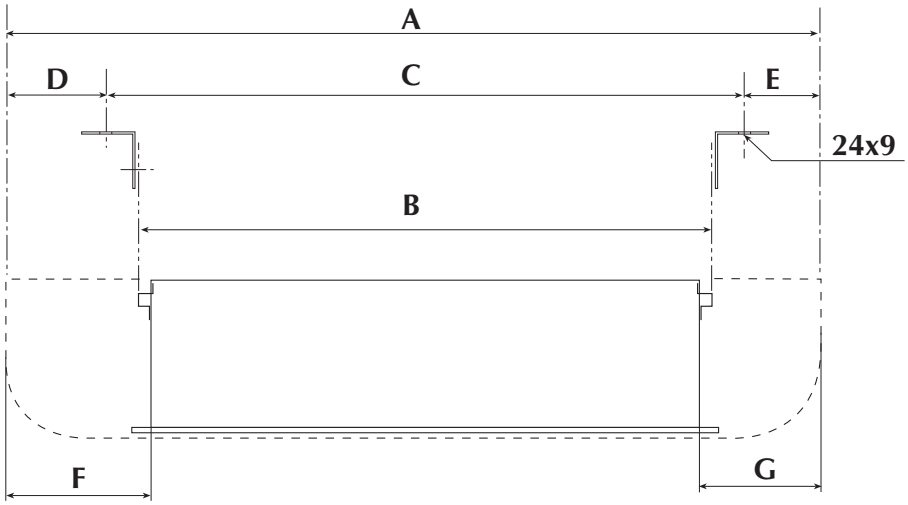
FCX-P 17 - 22 - 32 - 42 - 50
24 - 34 - 44 - 54



FCX-U 62 - 82 -102
64 - 84



FCX A - U - P

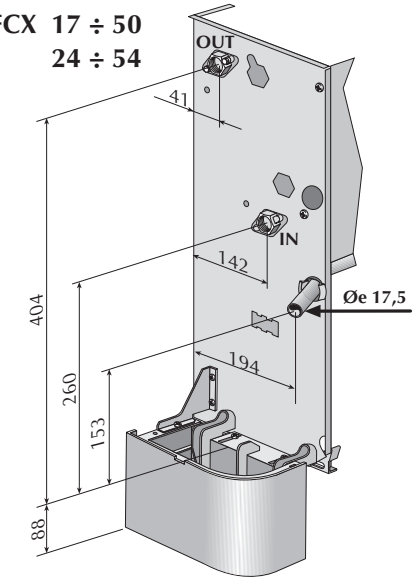


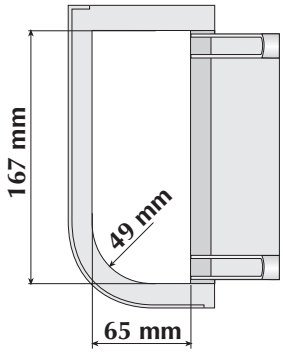
Mod.	FCX 17	FCX 22 FCX 24	FCX 32 FCX 34	FCX 42 FCX 44	FCX 50 FCX 54	FCX 62 FCX 64	FCX 82 FCX 84	FCX 102
A	640	750	981	1201	1201	1322	1322	1322
B	445	555	786	1006	1006	1127	1127	1127
C	490	600	831	1051	1051	1172	1172	1172
D	95,5	95,5	95,5	95,5	95,5	95,5	95,5	95,5
E	54,5	54,5	54,5	54,5	54,5	54,5	54,5	54,5
F	144,5	144,5	144,5	144,5	144,5	144,5	144,5	144,5
G	103,5	103,5	103,5	103,5	103,5	103,5	103,5	103,5

In case of inversion hydraulic connections, invert D with E, F with G

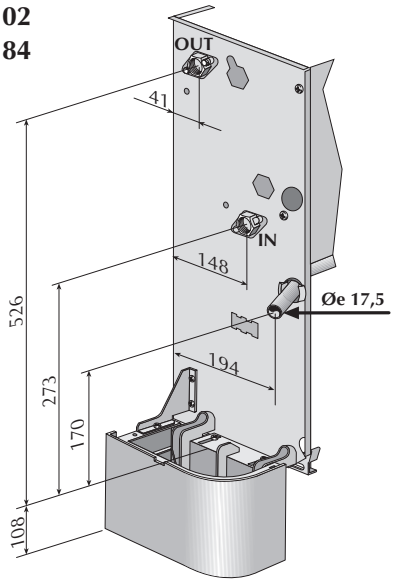
3 AND 4- ROW COILS

FCX 17 ÷ 50
24 ÷ 54





FCX 62 ÷ 102
64 ÷ 84

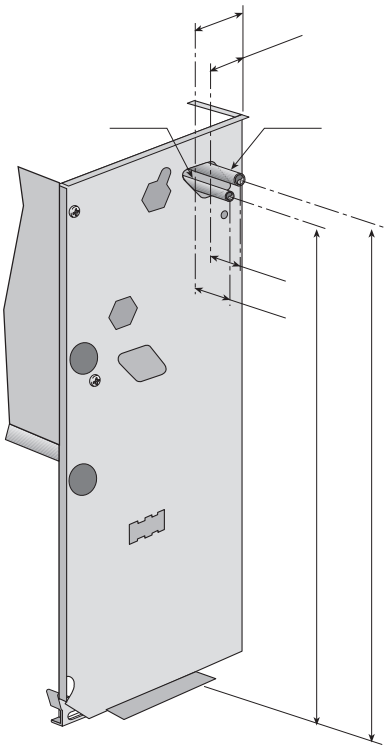


Mod.	FCX 17	FCX 22	FCX 32	FCX 42	FCX 50	FCX 62	FCX 82	FCX 102
Coil connections (female)	1/2″	1/2″	1/2″	3/4″	3/4″	3/4″	3/4″	3/4″

Mod.	FCX 24	FCX 34	FCX 44	FCX 54	FCX 64	FCX 84
Coil connections (female)	3/4″	3/4″	3/4″	3/4″	3/4″	3/4″

For FCX - U versions do not consider the foot

DIRECT EXPANSION COIL



DIMENSIONS [mm]

Mod.	FCX 22÷50	FCX 62-102
A	400	522
B	408	530
Ø 1	9,52	9,52
Ø 2	12	16

Cooling connections on all FCX models fitted with direct expansion coil (FCX - UE, FCX - PE) are located on the right side of the unit; the control panel must therefore be positioned on the left side. The coil cannot be rotated on these models..

LEGENDA • READING KEY • LEGENDE • LEGENDE • LEYENDA

AL = Alimentatore 12V
Power supply 12V
Alimentation electrique 12V
Spannung 12V
Alimentador

CE = Contatto esterno
EX External contact
Contact extérieur
Externer Kontakt
Contacto externo

CN = Connettore
Connector
Connecteur
Schütz
Conector

CRE= Contattore resistenza elettrica
Electric heater contactor
Contacteur résistance eléctrique
El. Heizregister-Schutz
Contactor de la resistencia eléctrica

F = Fusibile • Fuse • Fusible
Sicherung • Fusible

IG = Interruttore generale • Main switch
Interupteur général • Hauptschalter
Interruptor general

M = Morsettiera • Terminal board
Boitier • Klemmleiste
Placa de bornes

ML = Motore aletta
Louvre motor
Moteur deflecteur
Motor- Umlenkklappe
Lamas motorizadas

MS = Microinterruttore griglia
(Solo per i modelli che ne sono provvisti)
Louvre microswitch
(Only for the appropriate models)
Micro-interrupteur grille
(Uniquement pour les modèles qui en sont fournis)
Mikroschalter Gitter
(Nur bei Modellen, die damit ausgestattet sind)
Microinterruptor de la rejilla de impulsión
(Sólo para los modelos que lo incluyen)

MV = Motore ventilatore • Fan motor
Moteur ventilateur • Ventilatormotor
Motor del ventilador

PE = Collegamento a terra
GND Earth connection
Mise à terre
Erdanschluss
Toma de tierra

RE = Resistenza elettrica • Electric heater
RX = Résistance électrique • Elt. Heizregister
Resistencia eléctrica

SA = Sonda ambiente • Room sensor
Sonde ambiante • Raumtemperaturfuhler
Sonda ambiente

SC = Scheda di controllo
Electronic control board
Platine de contrôle • Steuerschaltkreis
Tarjeta electrónica de control

SW = Sonda minima temperatura acqua
Water low temperature sensor
Sonde minimum temp. eau
Wasserfühler
Sonda temperatura mínima del agua

TR = Trasformatore • Transformer
Transformateur
Transformator • Transformador

TSR= Termostato a riarmo automatico
Automatic resetting thermostat
Thermostat à réarmement automatique
Thermostat automatischer Entriegelung
Termostato de rearme automático

TSRM= Termostato a riarmo manuale
Manual resetting thermostat
Thermostat à réarmement manuel
Thermostat manueller Entriegelung
Termostato de rearme manual

VCF= Valvola solenoide • Solenoid valve
Vanne solenoide • Magnetventil
Válvula solenoide

VC = Valvola solenoide caldo
Solenoid valve hot
Vanne magnétique chaud
Magnetventil Heizbetrieb
Válvula solenoide para calor

VF = Valvola solenoide freddo
Solenoid valve cold
Vanne magnétique froid
Magnetventil Kühlbetrieb
Válvula solenoide para frío

= Componenti non forniti
Components not supplied
Composants non fournis
Nicht lieferbare Teile
Componentes no suministrados

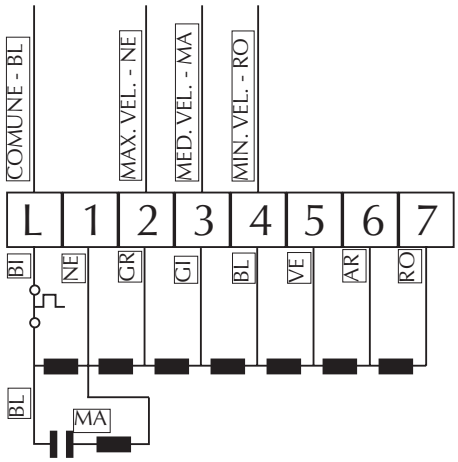
= Componenti forniti optional
Optional components
Composants en option
Optionsteile
Componentes opcionales

= Collegamenti da eseguire in loco
On-site wiring
Raccordements à effectuer in situ
Vor Ort auszuführende Anschlüsse
Cableado in situ

AR = Arancio • Orange • Orange • Orange • Naranja
BI = Bianco • White • Blanc • Weiss • Blanco
BL = Blu • Blue • Bleu • Blau • Azul
GR = Grigio • Grey • Gris • Gray • Gris
MA = Marrone • Brown • Marron • Braun • Marrón
NE = Nero • Black • Noir • Schwarz • Negro
RO = Rosso • Red • Rouge • Rot • Rojo
VE = Verde • Green • Vert • Grün • Verde
VI = Viola • Violet • Violet • Violet • Violeta

English

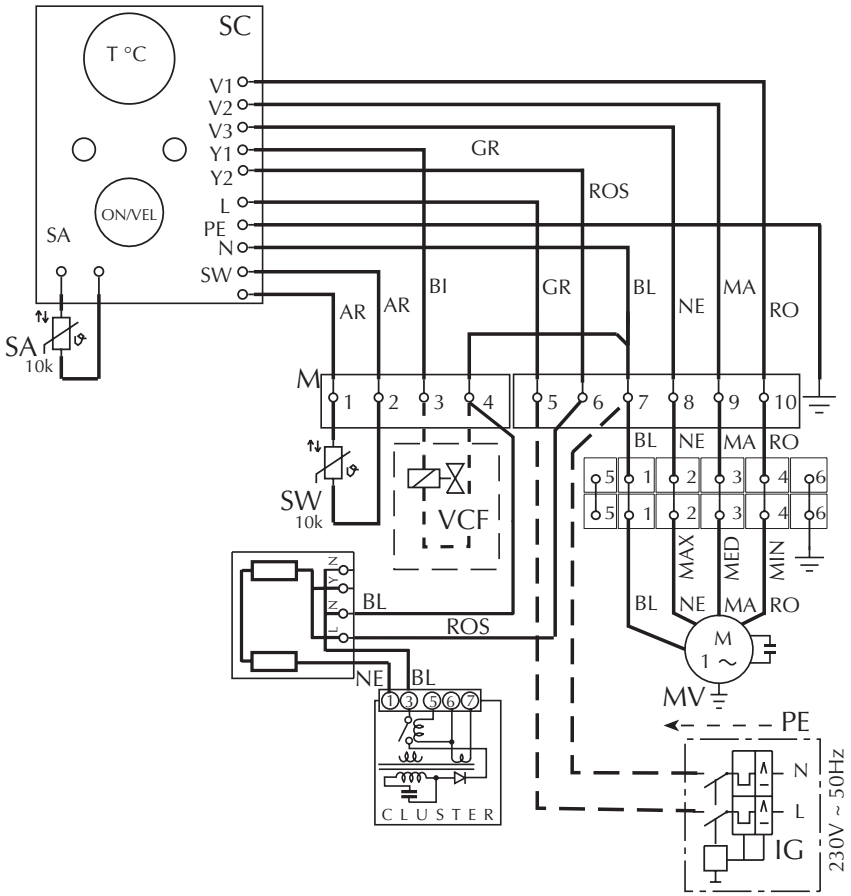
SCHEMA DI COLLEGAMENTO MOTORE FCX - PO • FCX - PO MOTOR CONNECTION DIAGRAM
SCHEMA DE RACCORDEMENT MOTEUR FCX - PO • ANSCHLUSSPLAN MOTOR FCX - PO
ESQUEMA DE CONEXIONADO ELÉCTRICO DEL MOTOR FCX - PO



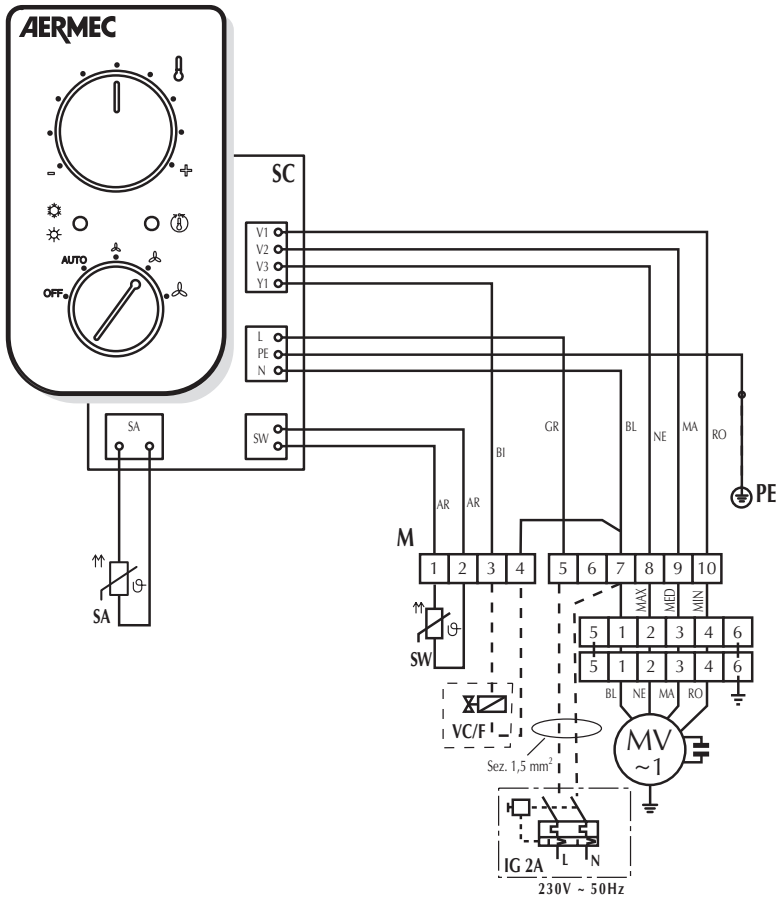
Le velocità disponibili sono numerate da 1 a 7 in ordine decrescente di velocità
Available speeds are numbered from 1 to 7 following a speed decreasing order
Les vitesses disponibles sont numeratées de 1 à 7 en ordre de vitesse décroissante
Die verfügbaren Drehzahlen sind von 1 zu 7 mit abnehmender Drehzahlstufe numeriert
Las velocidades disponibles se numeran, en orden decreciente, de 1 a 7.

Gli schemi elettrici sono soggetti ad un continuo aggiornamento, è obbligatorio quindi fare riferimento a quelli a bordo macchina.
All wiring diagrams are constantly updated. Please refer to the ones supplied with the unit.
Nos schémas électriques étant constamment mis à jour, il faut absolument se référer à ceux fournis à bord de nos appareils.
Die Schaltpläne werden ständig aktualisiert, deswegen muss man sich stets auf das mit dem Gerät gelieferte Schaltschema beziehen.
El cableado de las máquinas es sometido a actualizaciones constantes. Por favor, para cada unidad hagan referencia a los esquemas suministrados con la misma.

FCX - APC



FCX - ACT



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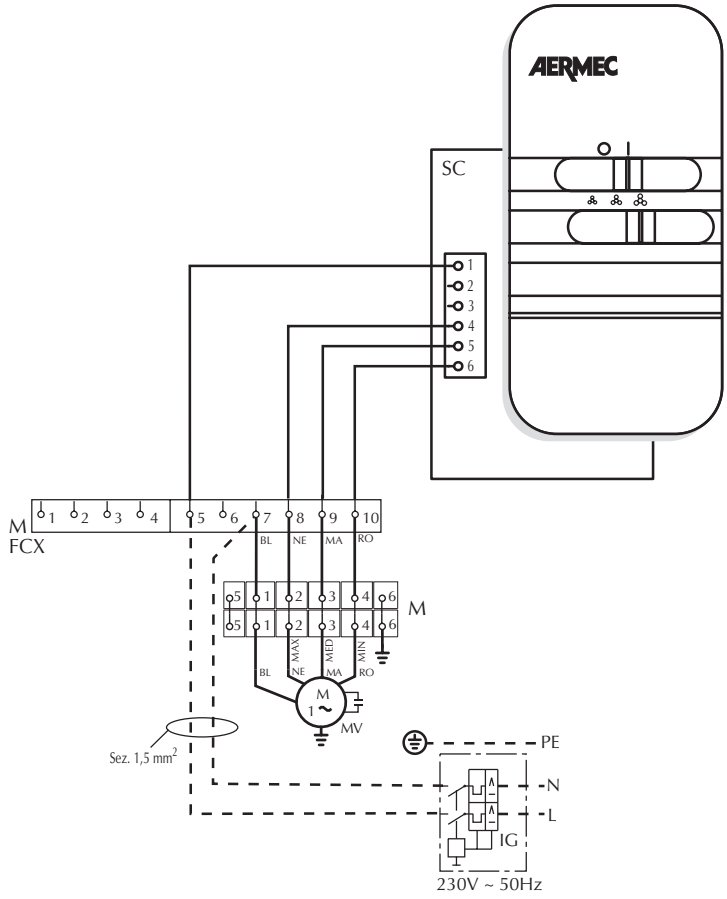
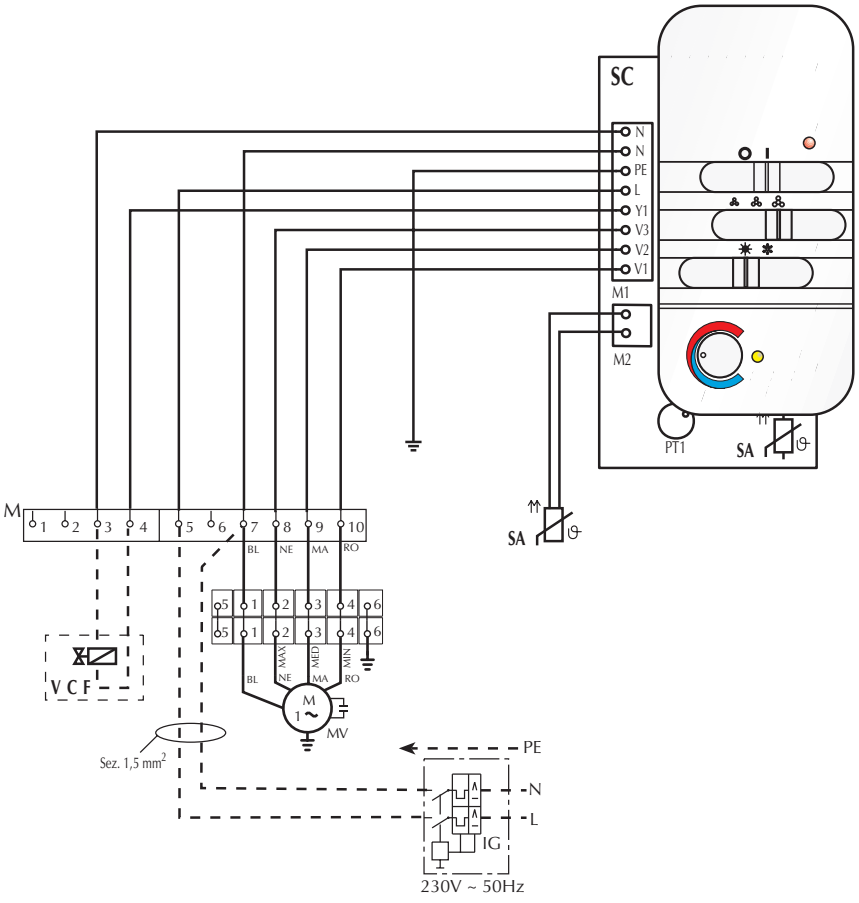
English

FCX - A



FCX - ACB



Gli schemi elettrici sono soggetti ad un continuo aggiornamento, è obbligatorio quindi fare riferimento a quelli a bordo macchina.
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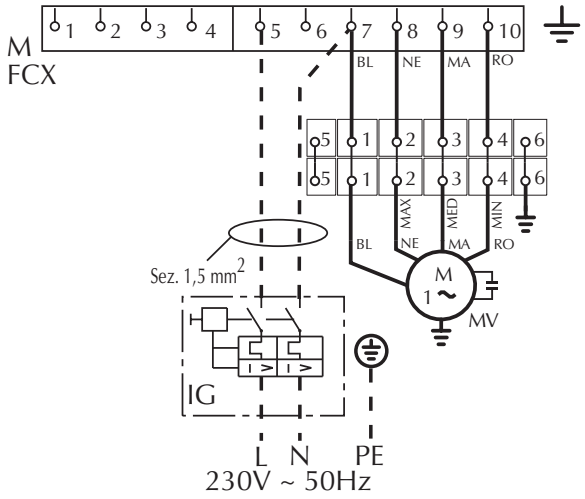
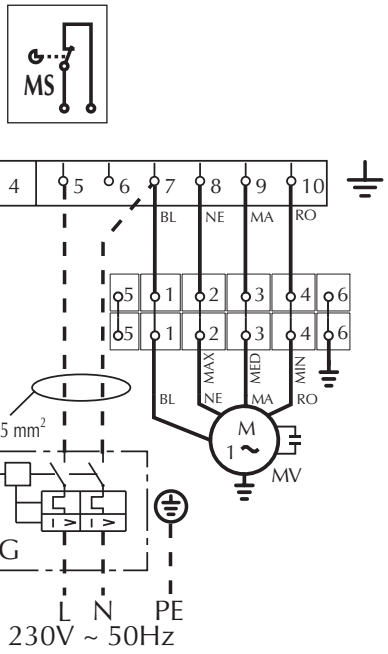
FCX - AS
FCX - P
FCX - U

(solo 62 - 82 - 102) Universale senza comandi
(62 - 82 - 102 only) Universal, without controls
(seulement 62 - 82 - 102) Universel sans commandes
(nur 62 - 82 - 102) Universalgerät ohne Steuerungen
(sólo 62 - 82 - 102) Universal sin panel de mandos



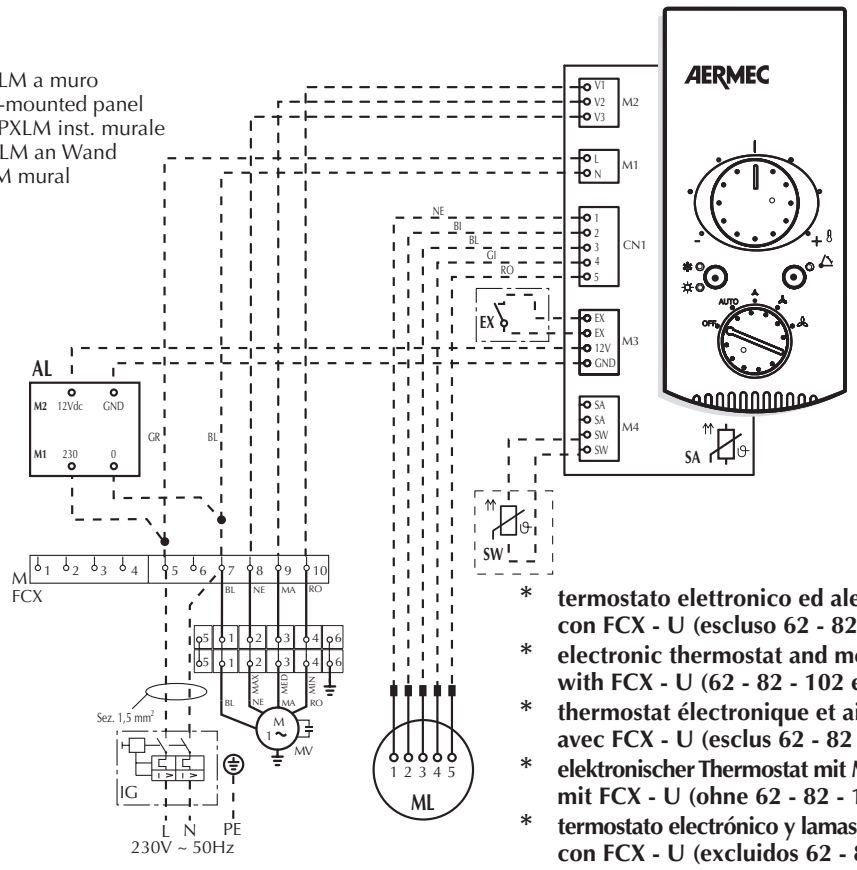
FCX - U

(escluso 62 - 82 - 102) Universale senza comandi
(except 62 - 82 - 102) Universal, without controls
(esclus 62 - 82 - 102) Universel sans commandes
(ohne 62 - 82 - 102) Universalgerät ohne Steuerungen
(excluidos 62 - 82 - 102) Universal sin panel de mandos



FCX U*
PXLM

2 tubi pannello PXLM a muro
2 tubes PXLM wall-mounted panel
2 tuyaux panneau PXLM inst. murale
2 Röhren Platte PXLM an Wand
2 tubos panel PXLM mural



* **termostato elettronico ed alette motorizzate con FCX - U (escluso 62 - 82 - 102)**
* **electronic thermostat and motorized fins with FCX - U (62 - 82 - 102 excluded)**
* **thermostat électronique et ailettes motorisees avec FCX - U (esclus 62 - 82 - 102)**
* **elektronischer Thermostat mit Motorbetriebenen Lamellen mit FCX - U (ohne 62 - 82 - 102)**
* **termostato electrónico y lamas motorizadas con FCX - U (excluidos 62 - 82 - 102)**

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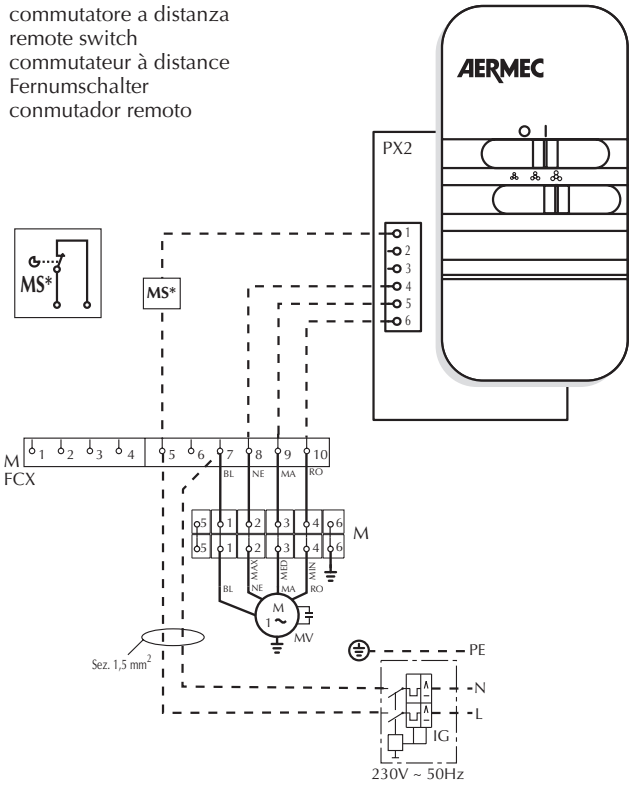
English

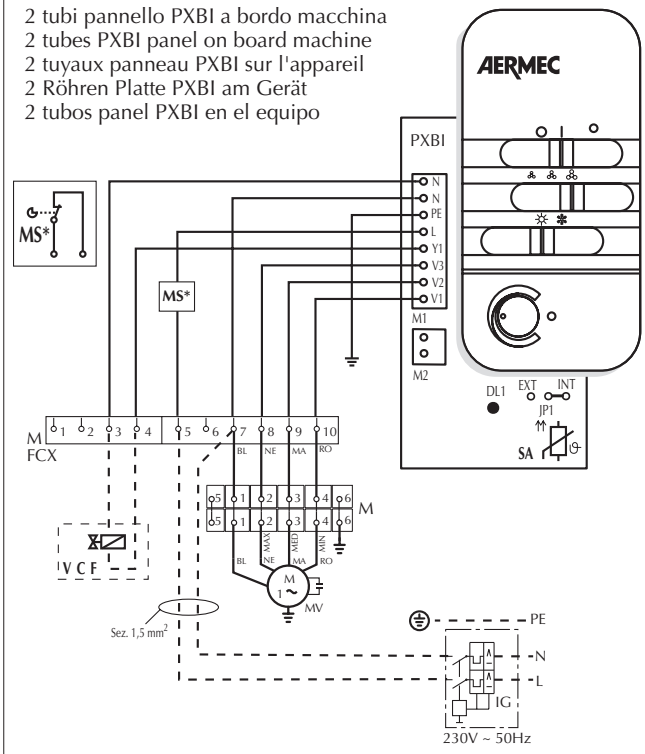
FCX
PX2

commutatore a distanza
remote switch
commutateur à distance
Fernumschalter
conmutador remoto



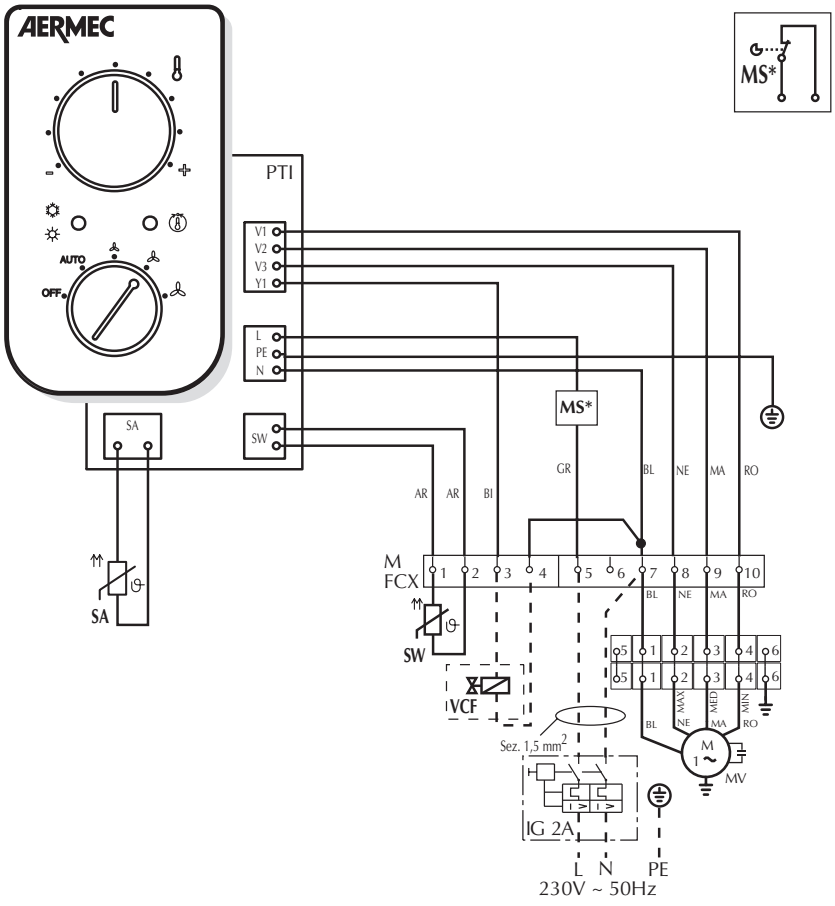
FCX
PXBI + VCF

2 tubi pannello PXBI a bordo macchina
2 tubes PXBI panel on board machine
2 tuyaux panneau PXBI sur l'appareil
2 Röhren Platte PXBI am Gerät
2 tubos panel PXBI en el equipo



FCX
PTI + VCF

2 tubi pannello PTI a bordo macchina
2 tubes PTI panel on board machine
2 tuyaux panneau PTI sur l'appareil
2 Röhren Platte PTI am Gerät
2 tubos panel PTI en el equipo



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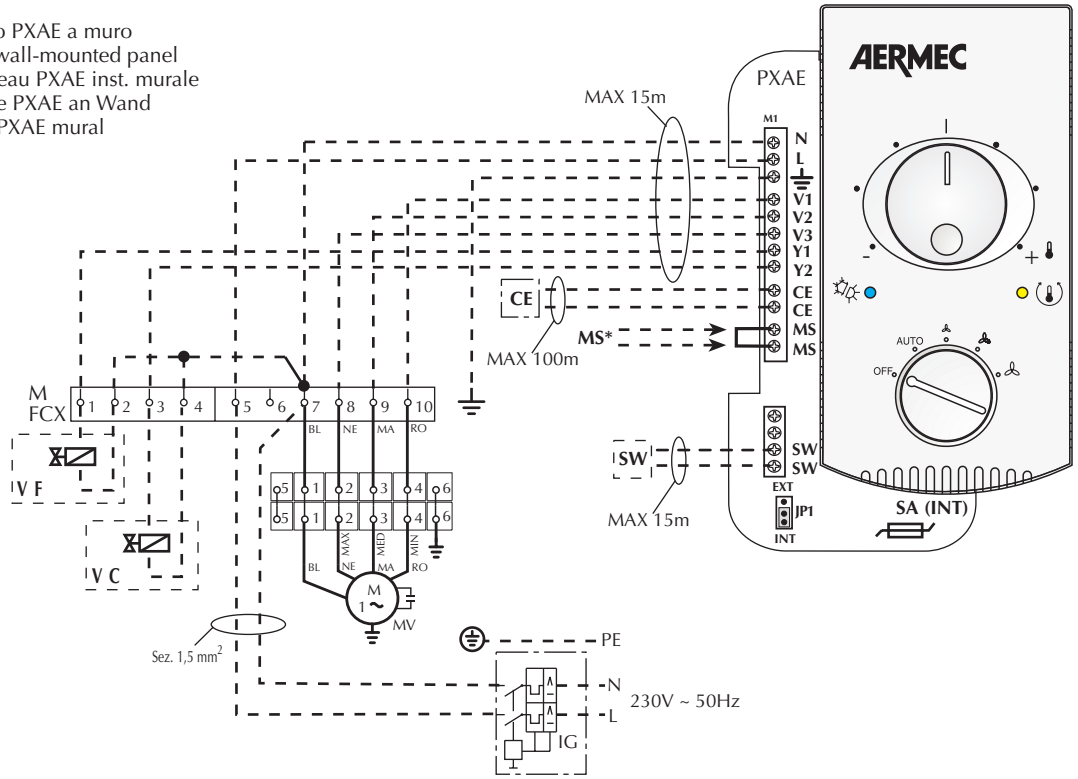
FCX
PXAE + VC + VF

4 tubi pannello PXAE a muro
4 tubes PXAE wall-mounted panel
4 tuyaux panneau PXAE inst. murale
4 Röhren Platte PXAE an Wand
4 tubos panel PXAE mural



FCX
PXAE + VCF

2 tubi pannello PXAE a muro
2 tubes PXAE wall-mounted panel
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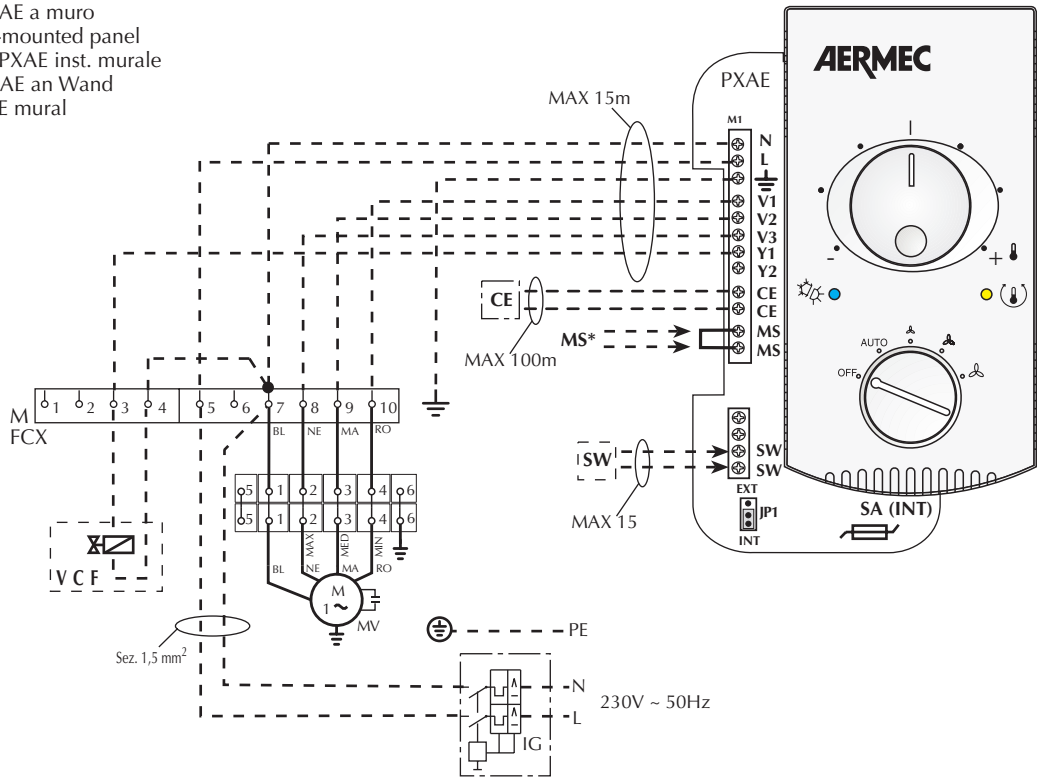
2 tubos panel PXAE mural



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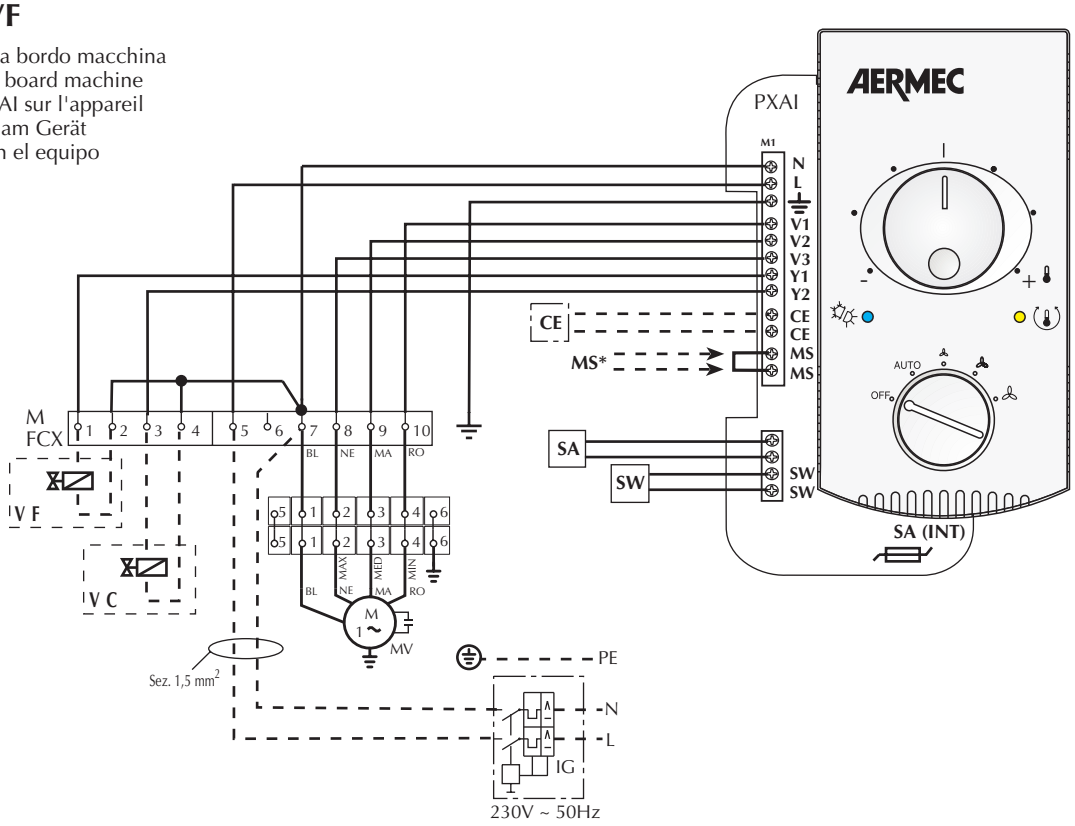
English

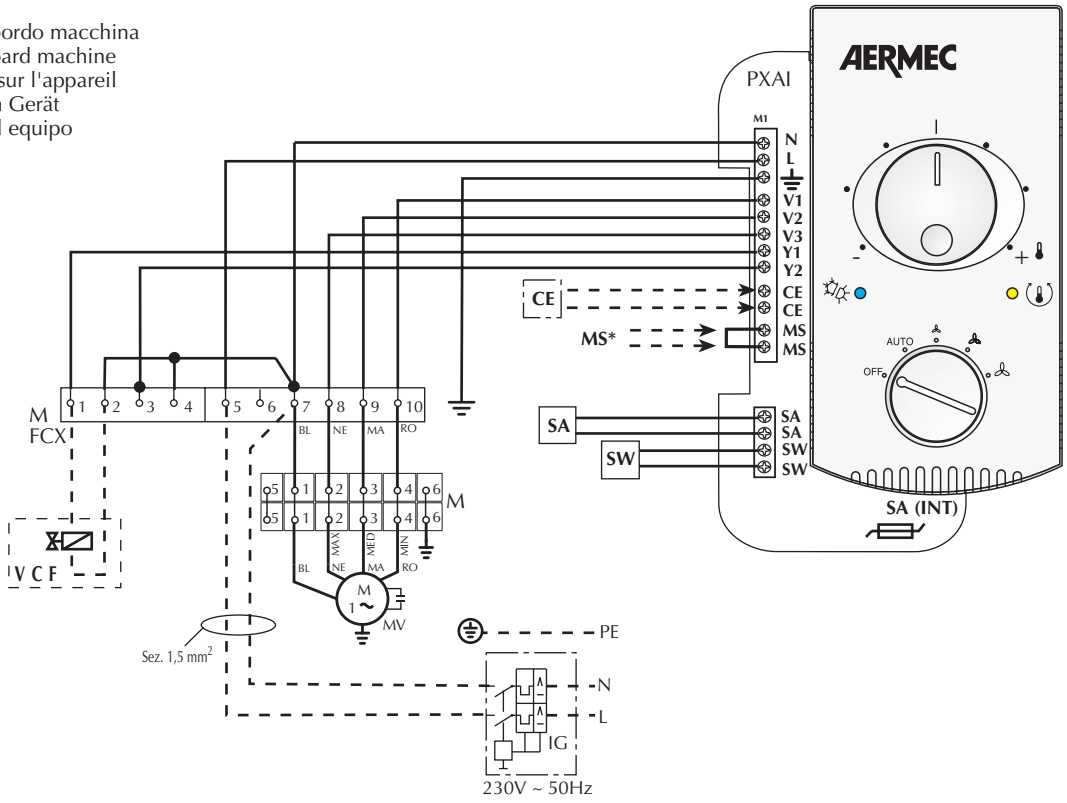
FCX
PXAI + VC + VF

4 tubi pannello PXAI a bordo macchina
4 tube PXAI panel on board machine
4 tuyaux panneau PXAI sur l'appareil
4 Röhren Platte PXAI am Gerät
4 tubos panel PXAI en el equipo



FCX
PXAI + VCF

4 tubi pannello PXAI a bordo macchina
4 tube PXAI panel on board machine
4 tuyaux panneau PXAI sur l'appareil
4 Röhren Platte PXAI am Gerät
4 tubos panel PXAI en el equipo



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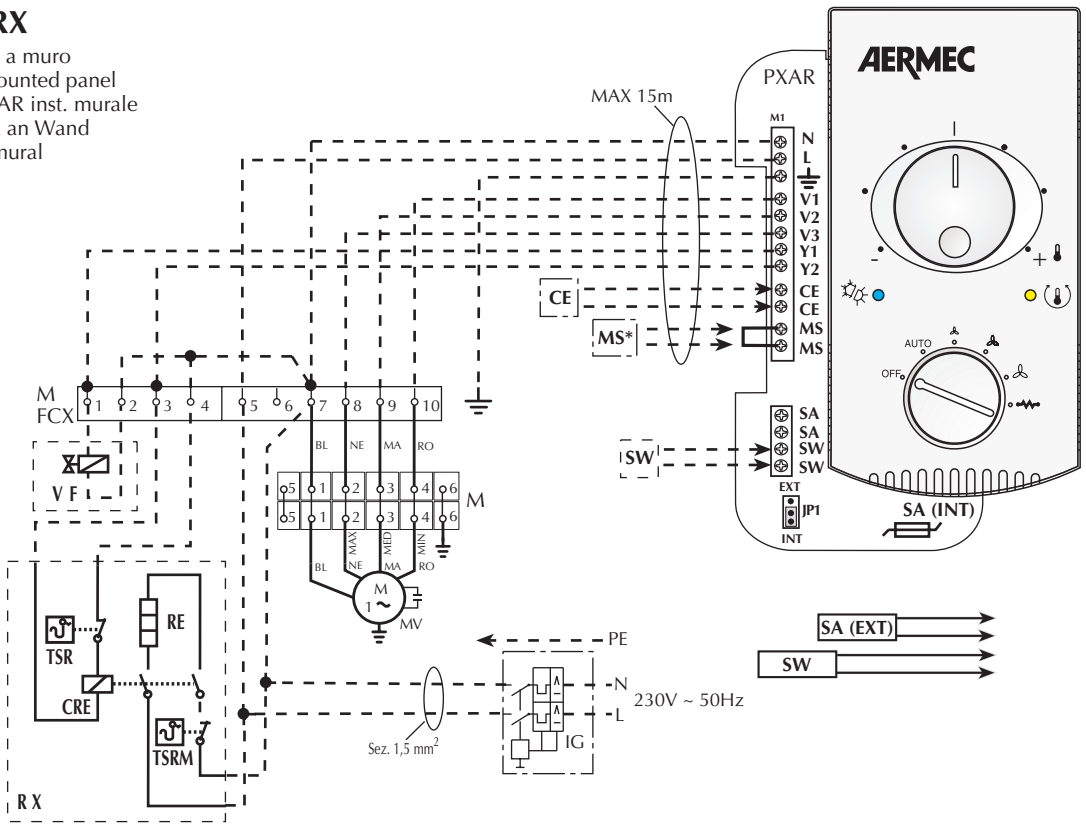
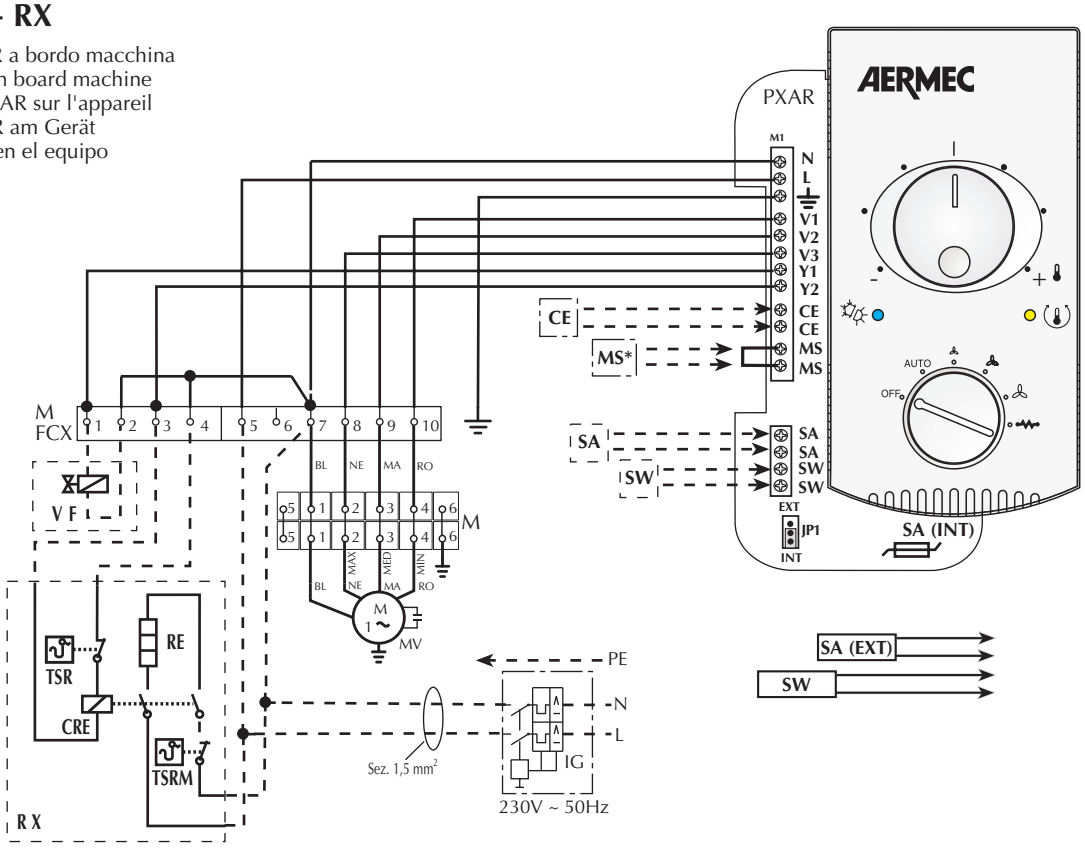
FCX
PXAR + VF + RX

2 tubi pannello PXAR a muro
2 tubes PXAR wall-mounted panel
2 tuyaux panneau PXAR inst. murale
2 Röhren Platte PXAR an Wand
2 tubos panel PXAR mural



FCX
PXAR + VCF + RX

2 tubi pannello PXAR a bordo macchina
2 tube PXAR panel on board machine
2 tuyaux panneau PXAR sur l'appareil
2 Röhren Platte PXAR am Gerät
2 tubos panel PXAR en el equipo



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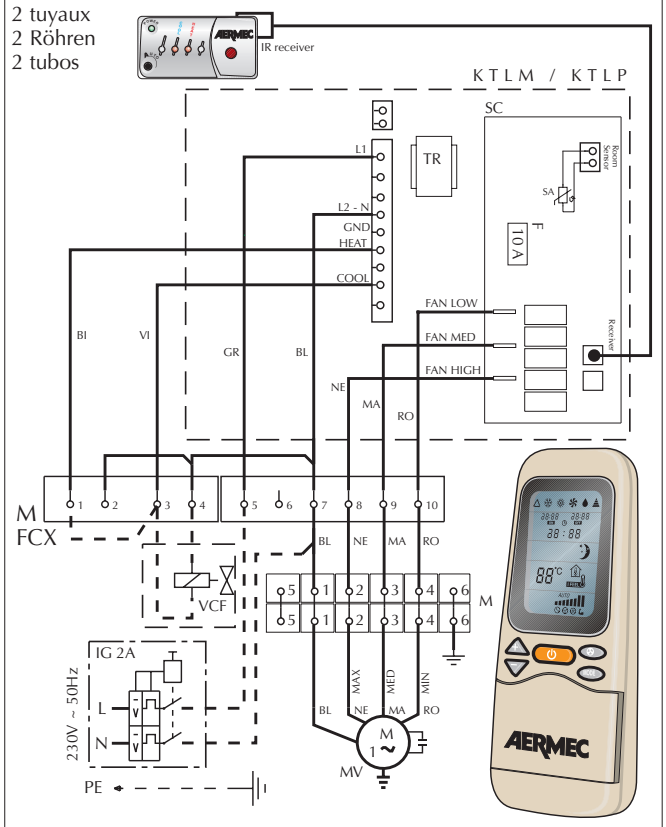
English

English

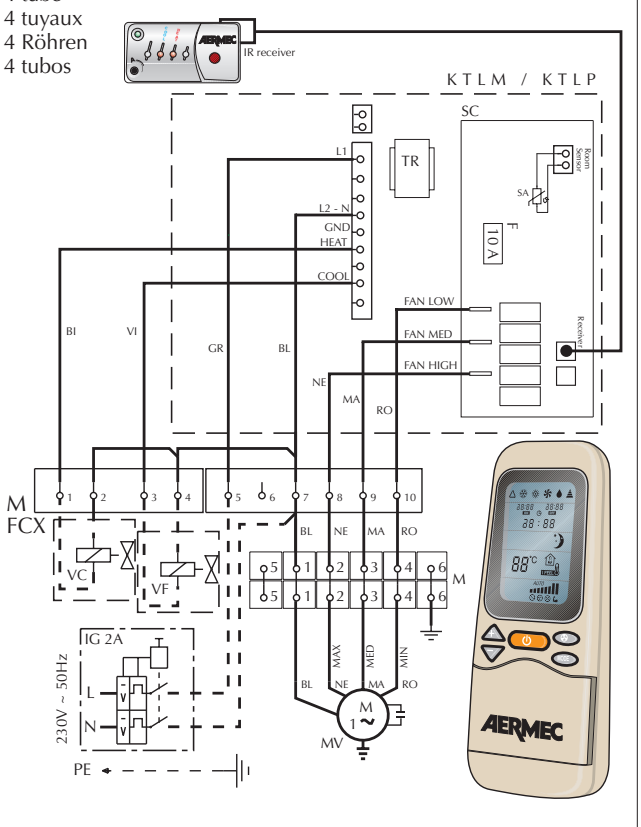
FCX
KTLM/KTLP + VCF

2 tubi
2 tube
2 tuyaux
2 Röhren
2 tubos



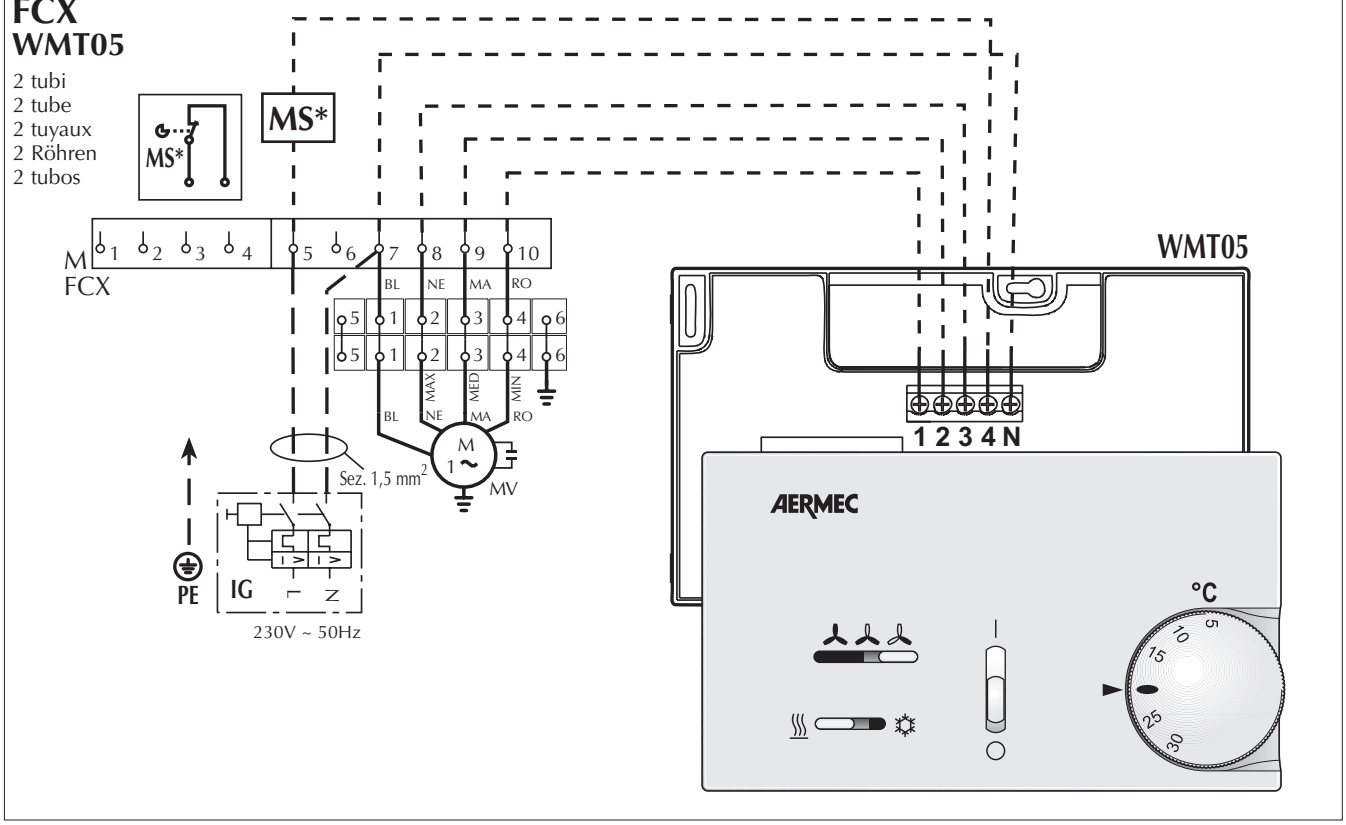
FCX
KTLM/KTLP + VC + VF

4 tubi
4 tube
4 tuyaux
4 Röhren
4 tubos



FCX
WMT05

2 tubi
2 tube
2 tuyaux
2 Röhren
2 tubos



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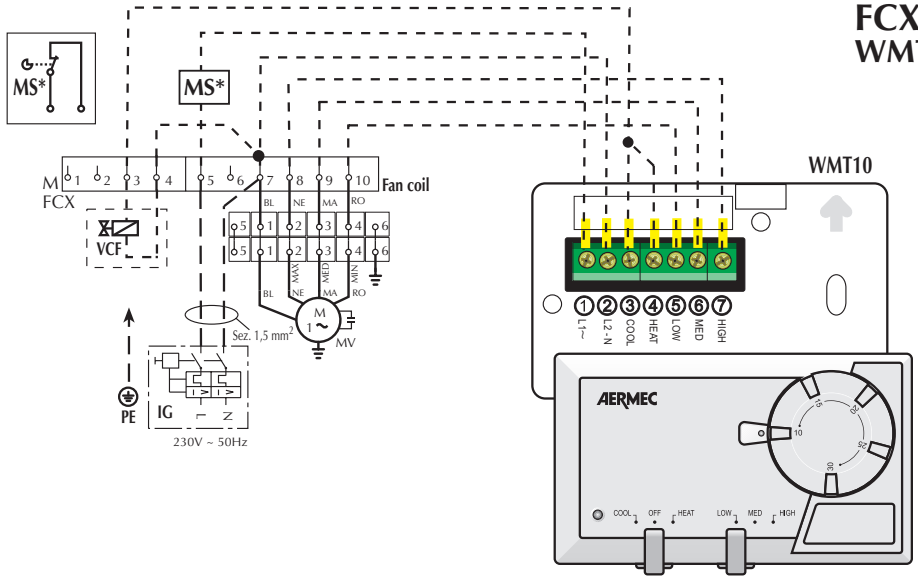
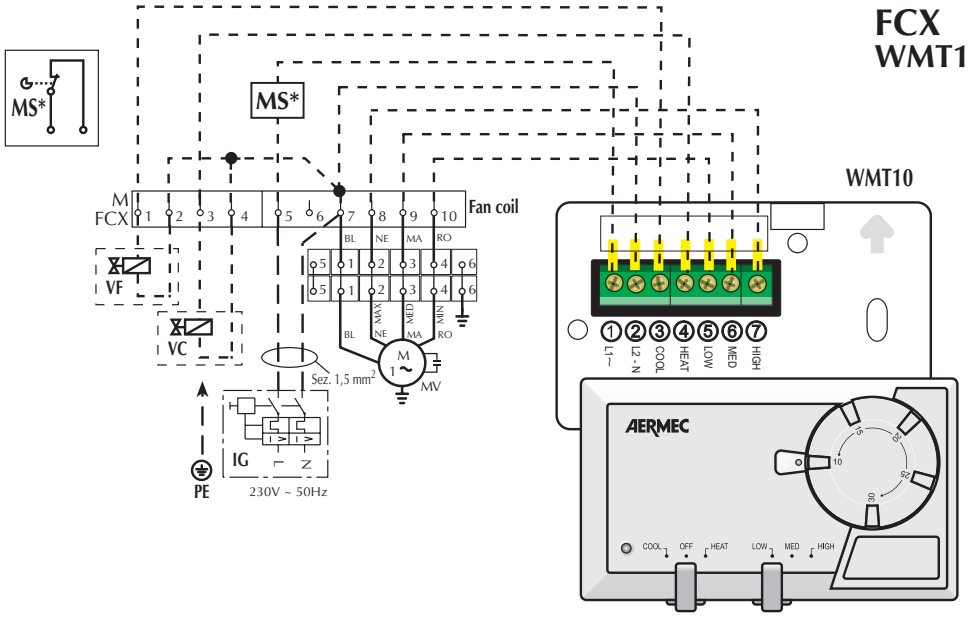
FCX
WMT10 + VCF

2 tubi
2 tube
2 tuyaux
2 Röhren
2 tubos



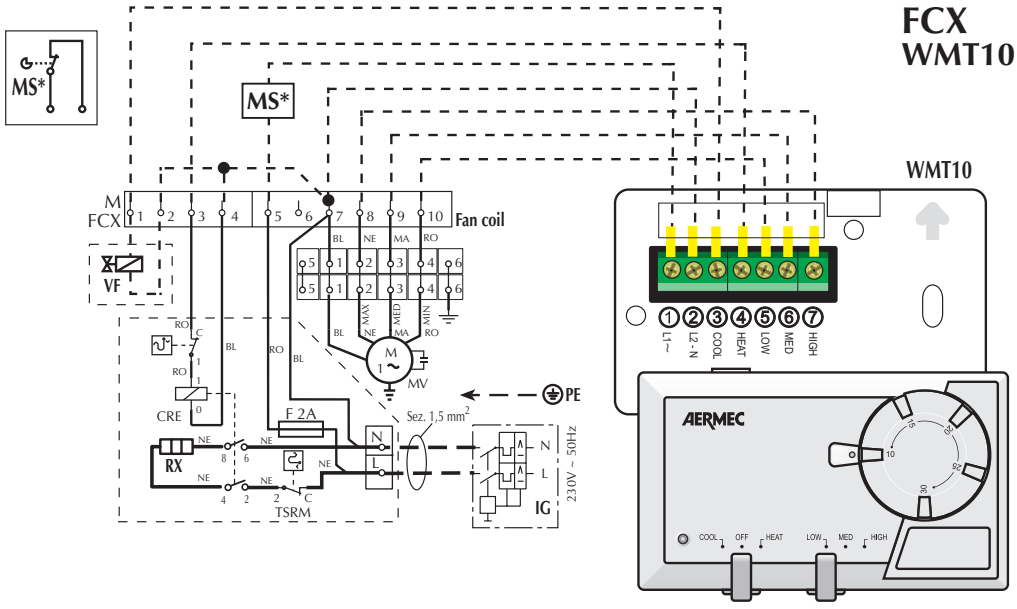
FCX
WMT10 + VF + VC

4 tubi
4 tube
4 tuyaux
4 Röhren
4 tubos



FCX
WMT10 + VF + RX

2 tubi
2 tube
2 tuyaux
2 Röhren
2 tubos



English

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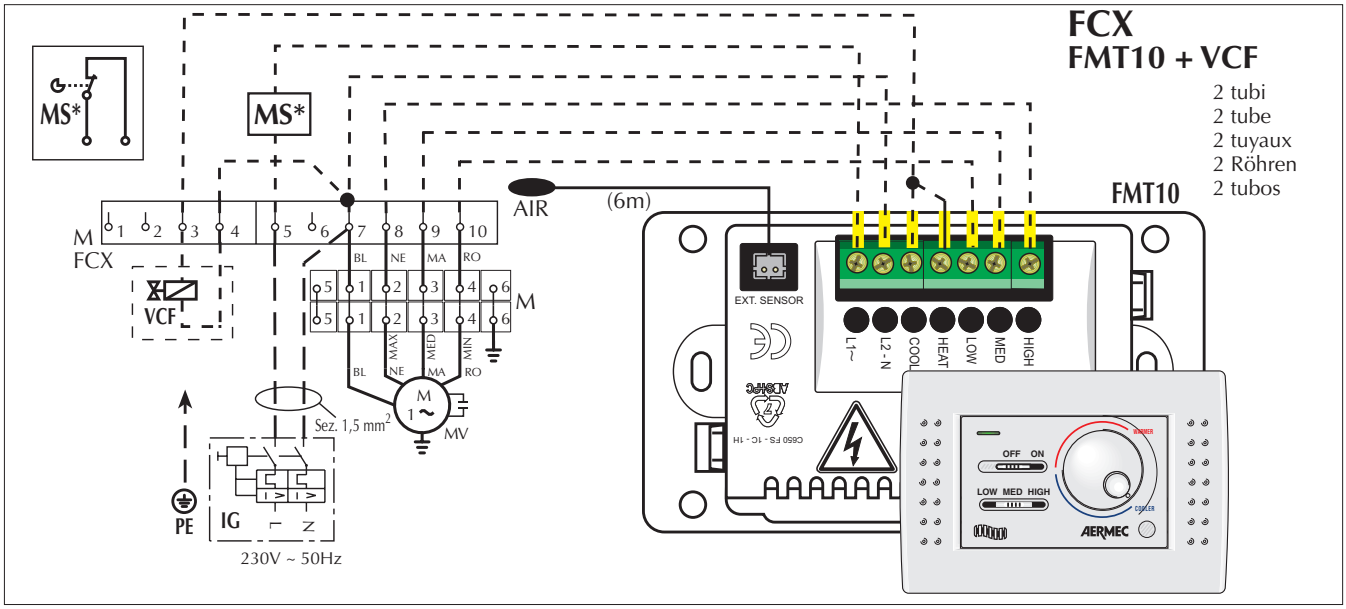
English

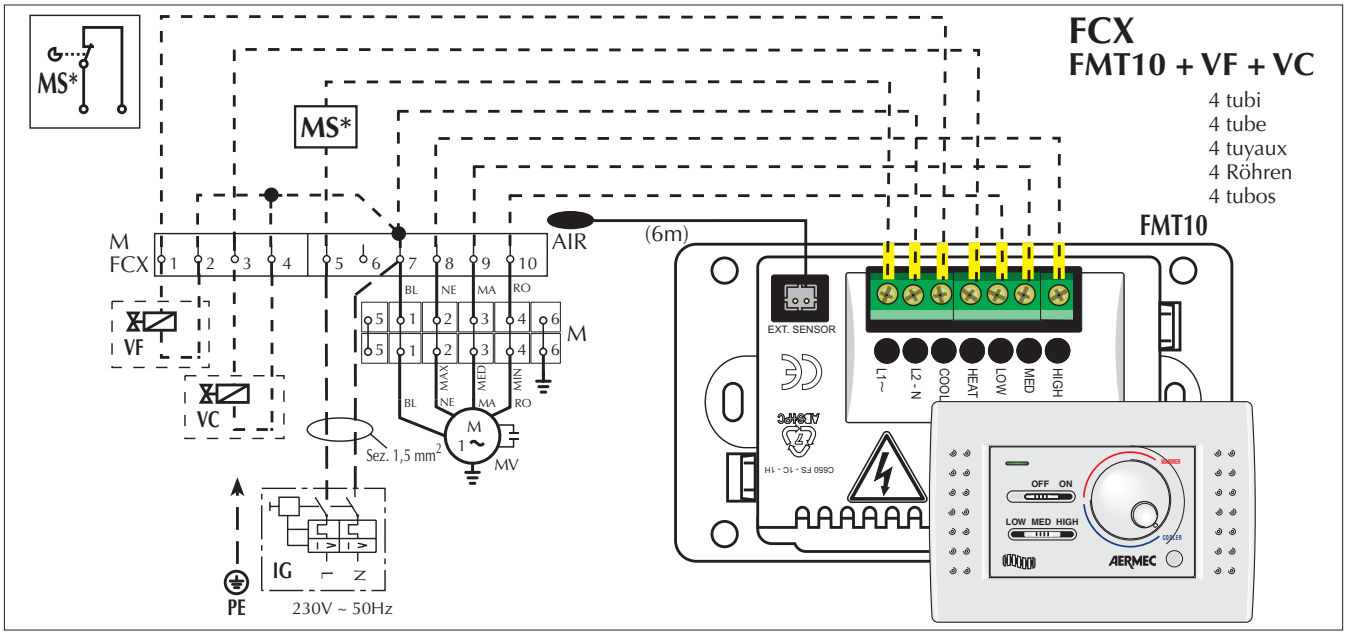
FCX
FMT10 + VCF

2 tubi
2 tube
2 tuyaux
2 Röhren
2 tubos



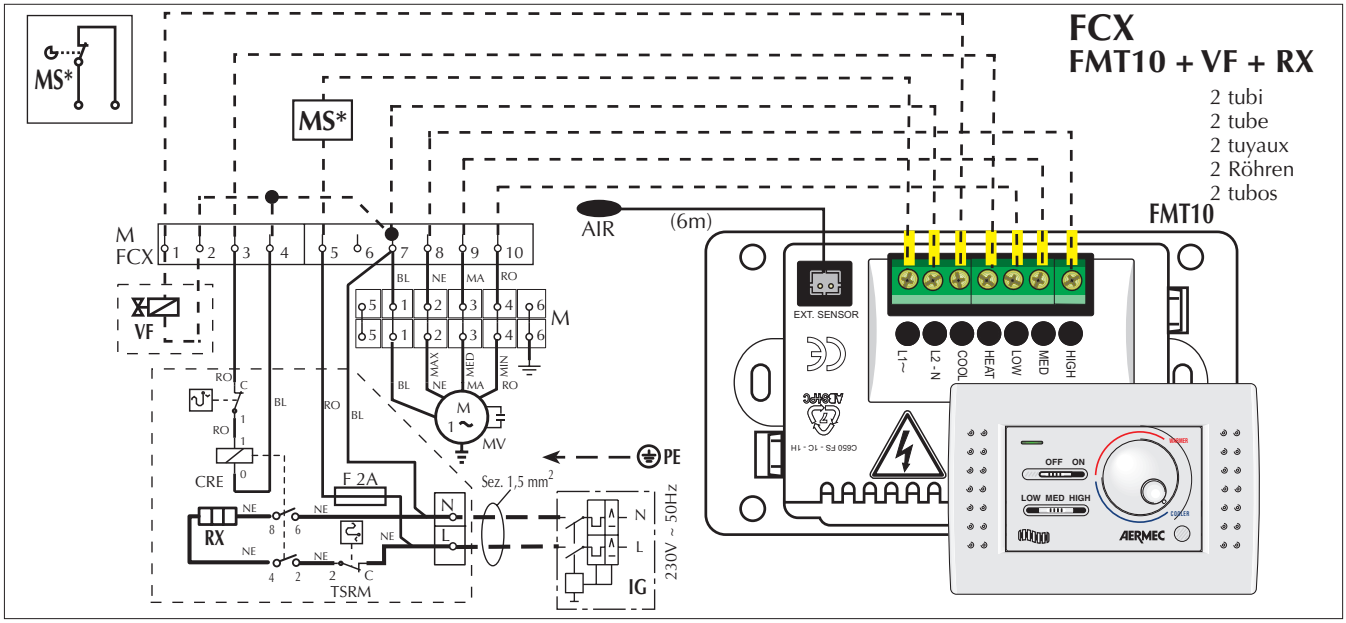
FCX
FMT10 + VF + VC

4 tubi
4 tube
4 tuyaux
4 Röhren
4 tubos



FCX
FMT10 + VF + RX

2 tubi
2 tube
2 tuyaux
2 Röhren
2 tubos



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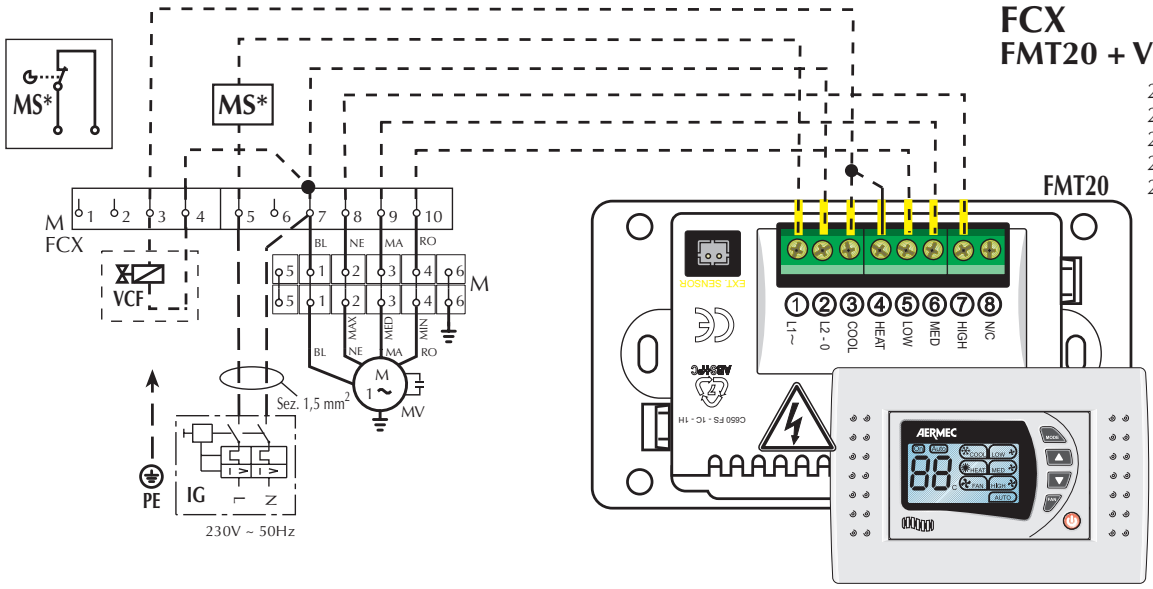
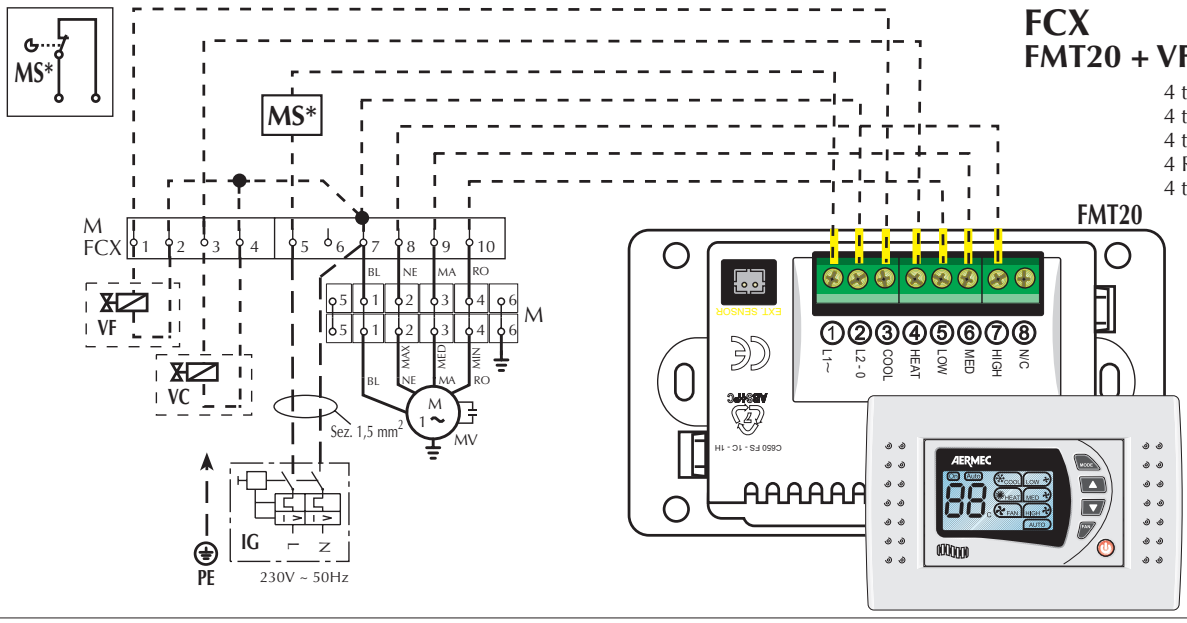
FCX
FMT20 + VCF

2 tubi
2 tube
2 tuyaux
2 Röhren
2 tubos



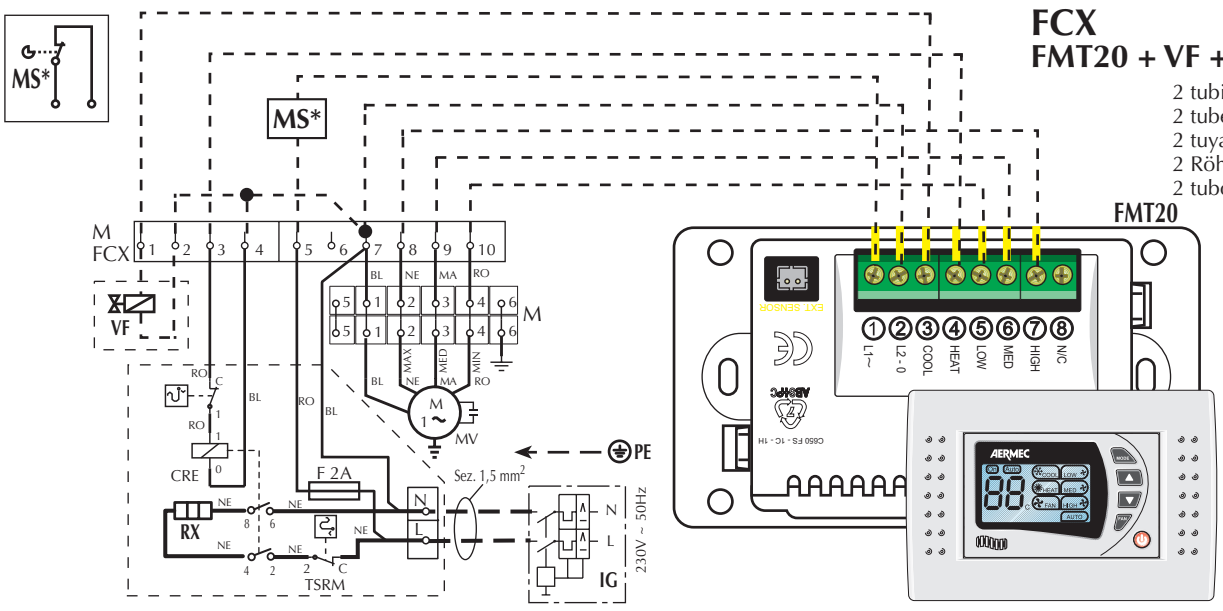
FCX
FMT20 + VF + VC

4 tubi
4 tube
4 tuyaux
4 Röhren
4 tubos



FCX
FMT20 + VF + RX

2 tubi
2 tube
2 tuyaux
2 Röhren
2 tubos



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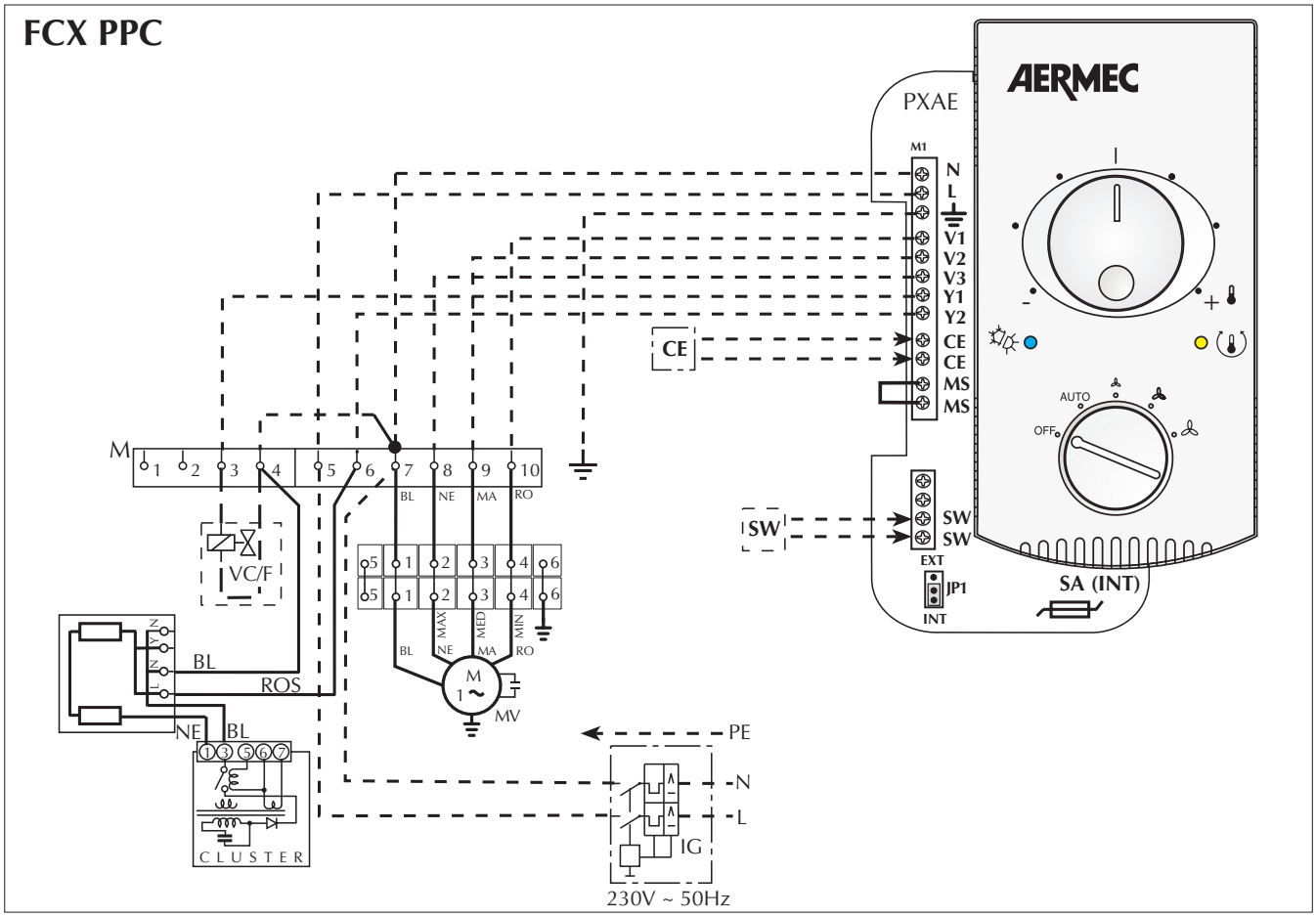
English

FCX PPC



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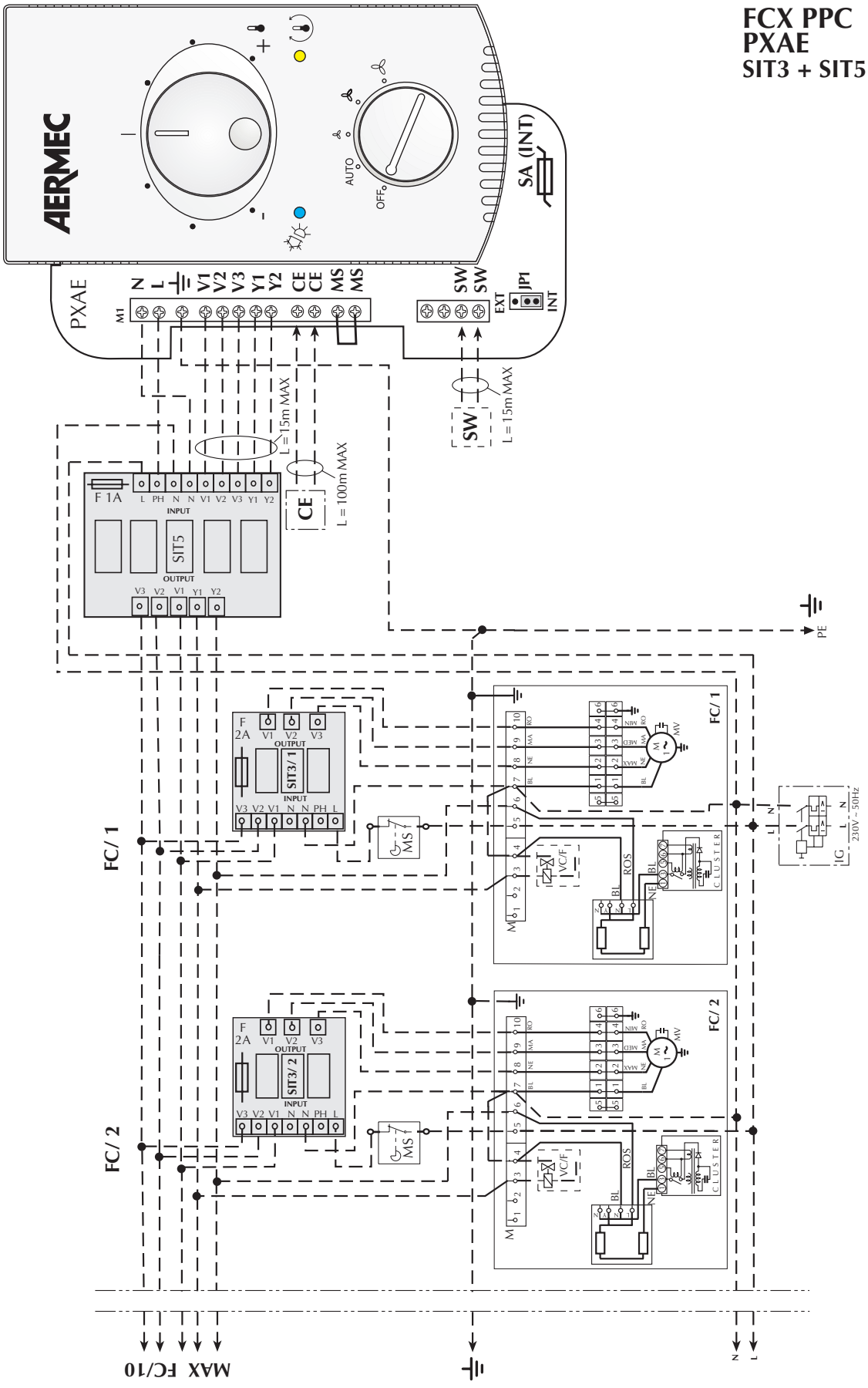
FCX PPC
PXAE
SIT3 + SIT5



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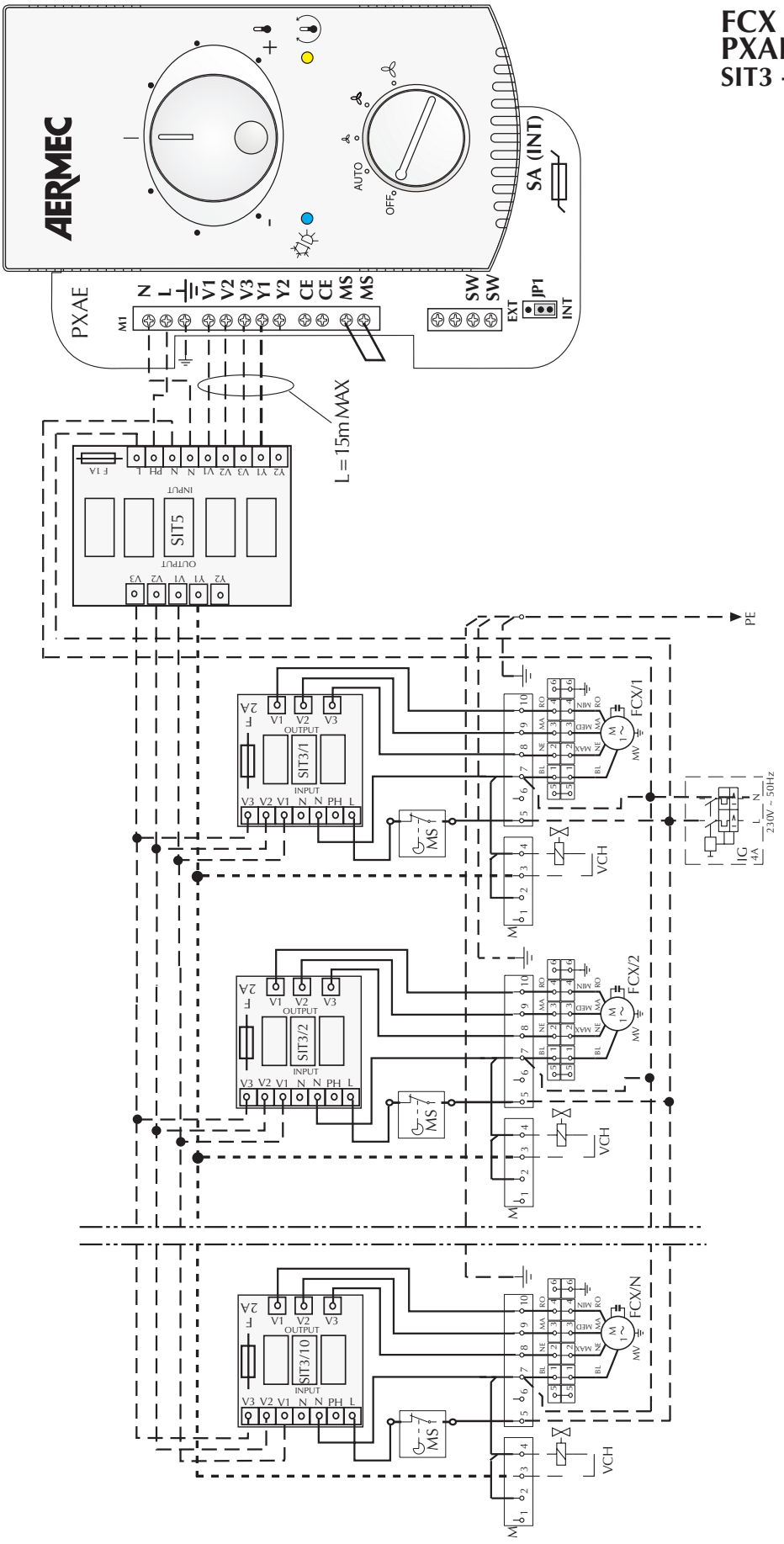
English

FCX AS
PXAE
SIT3 + SIT5



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TROUBLE SHOOTING

PROBLEM	PROBABLE CAUSE	SOLUTION
Feeble air discharge	Wrong speed setting on the control panel	Select the speed on the control panel
	Blocked filter	Clean the filter
	Ostruzione del flusso d'aria (entrata e/o uscita)	Remove the obstruction
It does not heat	Poor hot power supply	Control the boiler Control the heating pump
	Wrong setting on control panel	See control panel settings
It does not cool	Poor chilled water supply	Control the chiller See control panel settings
The fan does not turn	Wrong setting on control panel	Control the power supply
	No current	Check up the boiler or the chiller and/or their setting
	The water has not reached operating temperature	Check up the thermostat settings
Condensation on the unit cabinet	The water has not reached operating temperature The limit conditions of temperature and humidity indicated in "MINIMUM AVERAGE WATER TEMPERATURE" have been reached	Increase the water temperature beyond the minimum limits indicated in "MINIMUM AVERAGE WATER TEMPERATURE".

English

For anomalies don't hesitate, contact the after sales service immediately.

MAINTENANCE

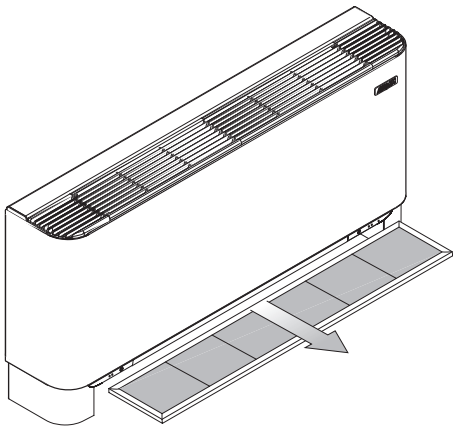
ROUTINE MAINTENANCE

Routime maitenance can be performed by the user. It consists of a series of simple operations that allow the facncoil to operatore at its maximum performance.

Interventions:
- External cleaning must be carried out weekly. Use a wet rag (with water at max, 40°C temperature) and neutral detergent; avoid other detergents or solvents. .
- Do not spray water in the external or internal surfaces of the fancoil (short circuit coud occur) .

Before carrying out any intervention be sure that electrical power supply is disconnected. Do nor remove the shell or the electrical or mechanical protections.

- Examination of the fancoil status at any maintenance intervention: any anomaly must be communicated to the After Sales dept.



EXTRAORDINARY MAINTENANCE

Only Aermec After Sales dept. or personnel with all the technical-professional capacities for the installation,transformation and maintenance of the units and able to verify them according to the safety normes in force with particular reference to electrical connections can carry out the extraordinary maintenance. The following verifications relating to the above are requested:
- Measure of the electrical unit insulatioon resistance.
- Continuity testo of the protection conductors.

Extraordinary maintenance consists of a series of complex operations that involve the disassembling of the fancoil or its components. Thanks to this operation the maximum efficency condition for the bfan coil functioning is restored.

Before any intervention, be sure electrical power supply is disconnected.

Intervention:
- Internal cleaning with year frequence or before prolonged period. In particular situation where an high level nof cleaning is requetsed, it can be carried out more frequently. It consists in the coil cleaning, fancoil fins, drip tray, ioniser and all the parts in contact with the treated air. Moreover verify the status of the filter, clean it and if necessary replace it.
For cleaning do nou use jets or water spray..
Use a small brush to remove possible dust deposit.
- For repairing or setting operation, consult the TROUBLE AND SHOOTING chapter before contact the After Sales dept.

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Aermec partecipe au Programme de Certification EUROVENT. Les produits figurent dans l'Annuaire EUROVENT des Produits Certifiés.
Aermec ist am Zertifikations - Programm EUROVENT beteiligt. Die entsprechend gekennzeichneten Produkte sind im EUROVENT - Jahrbuch aufgefürt.
AERMEC S.p.A. participa en el programa de certificación EUROVENT. Sus equipos aparecen en el directorio de productos certificados EUROVENT.