

NEW FAN COIL UNITS




CLINT
CLIMATIZZAZIONE INTEGRATA

Expansion of the product offer!



- ✓ Modern and renewed aesthetics
- ✓ Expansion of the product range
- ✓ Addition of ductable units with double panel
- ✓ Ducted units equipped with additional on-board coil
→ no additional module required
- ✓ Wide range of available options, especially control panels
- ✓ MADE IN ITALY products
- ✓ Reduced delivery times for all possible configurations.

CONFIGURATIONS

Different configurations are available:



2 Pipes

COOLING ONLY



2 Pipes

HEATING ONLY



2 Pipes

COOLING + HEATING



2 Pipes

COOLING + SUPPLEMENTARY ELECTRICAL HEATER



4 Pipes

COOLING + HOT WATER COIL FOR 4 PIPE SYSTEM



NEW RANGE

PREVIOUS VERSIONS				
	FVW 13÷74 FLOYD	FIW 13÷74	TCW 22÷122	UTW 63÷274
	1,3- 7,3 kW	1,3- 7,3 kW	2,4-11 kW	4,6-20 kW
	AC and EC motors	AC and EC motors	AC and EC motors	AC and EC motors
NEW RANGE				
	VXM 123÷614	VXI 123÷614	TXW 132÷284	DWX 183÷364
	1,4-8,4 kW	1,4-8,4 kW	2,5-11 kW	6-22 kW
	AC and EC motors	AC and EC motors	AC and EC motors	AC and EC motors

VXM and VXI Fan Coil units




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PRODUCTS	CURRENT RANGE	NEW RANGE
FAN-COIL WITH CABINET	FVW	VXM
BUILT-IN FAN-COIL	FIW	VXI
WATER CASSETTE	TCW	TXW
DUCTABLE UNITS	UTW	DWX

FAN COIL (WITH CABINET / BUILT-IN)



	CURRENT RANGE	NEW RANGE
Description	FAN COIL UNITS WITH CABINET AND FOR BUILT-IN INSTALLATION WITH 3-SPEED OR EC INVERTER CENTRIFUGAL FANS.	FAN COIL UNITS WITH CABINET AND FOR BUILT-IN INSTALLATIONS WITH 6-SPEED OR EC INVERTER CENTRIFUGAL FANS.
Name	FVW/FIW	VMX /VXI
Sizes number		
2 Pipe (AC/EC)	14	12
4 Pipe (AC/EC)	14	12
Cooling capacity (kW)	1.3-7.3	1.4-8.4
AC version with cabinet		
Vertical unit with bottom inlet and vertical delivery	FVW/VP	VXM/VP
Vertical unit with front inlet and vertical delivery	FVW/VH	VXM/VH
Horizontal unit with rear inlet and horizontal delivery	FVW/VE	VXM/VE
Horizontal unit with bottom inlet and horizontal delivery	FVW/VO	VXM/VO
AC version built-in		
Vertical unit with bottom inlet and vertical delivery	FIW/IV	VXI/IV
Vertical unit with front inlet and vertical delivery	FIW/IF	VXI/IF
Horizontal unit with rear inlet and horizontal delivery	FIW/IO	VXI/IO
Horizontal unit with bottom inlet and horizontal delivery	FIW/II	VXI/II

FAN COIL WITH CABINET: NEW SIZES

Cooling	Cooling Capacity (kW)	1,4	1,6	2,0	2,4	3,2	3,7	4,7	5,2	5,8	6,3	7,1	8,4
NEW SIZES	AC (2 Pipe/4 Pipe) EC (2 Pipe/4 Pipe)	123	124	233	234	343	344	463	464	573	574	613	614

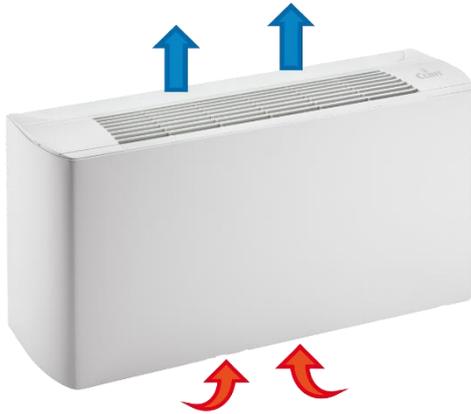
FAN COIL UNITS WITH CABINET AND 6-SPEED OR EC INVERTER CENTRIFUGAL FANS

EC INVERTER FAN

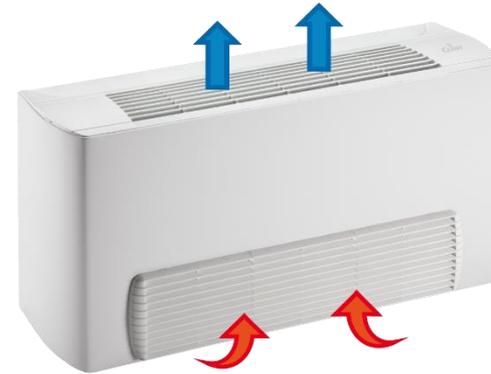


- Modern styled cabinet with smoothed outline to perfectly match with any interior decoration. Standard white colour (similar to RAL9010/9003). Made of thick steel-sheet, galvanized and finished by a polyvinyl chloride film to make it resistant to rust, corrosion and chemical agents. Bearing structure made of galvanized steel-sheet with internal thermal-acoustic insulation.
- Air delivery grill by fixed fins made of grey ABS adjustable on 2 positions (air flow can be reversed rotating grill by 180°) equipped with small sliding side doors for easily access to the internal control panel.
- Drain pan provided with condensation drain and thermal insulation.
- Coil made of copper pipes and aluminum fins, with coil connections provided with anti-torsion system, manual air vent and water drain valves.
- Universal connecting terminal (mounted for horizontal versions, loose accessory for vertical versions).
- Air filter easy to remove and to wash, made of a metal frame holding filtering section.
- Fan section based on centrifugal fans with double air inlet and last generation plastic blades, directly coupled to the 6-speed electric motor with 3 speeds connected in the standard configuration.
- Fan section based on centrifugal fans with double air inlet and last generation plastic blades, directly coupled to the EC inverter electronic motor. Modulating regulation with 0-10Vdc signal with control panels provided as accessory or with independent regulation system.

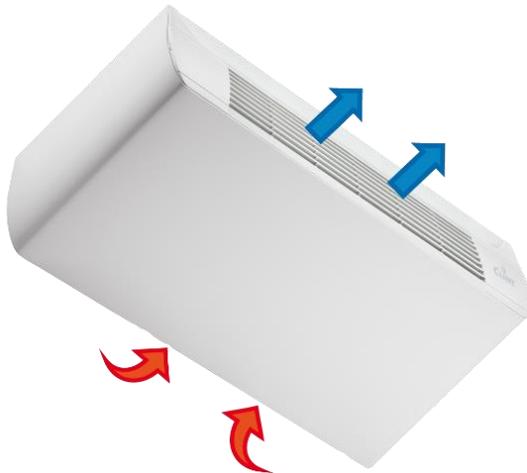
VP - Vertical unit with bottom inlet and vertical delivery



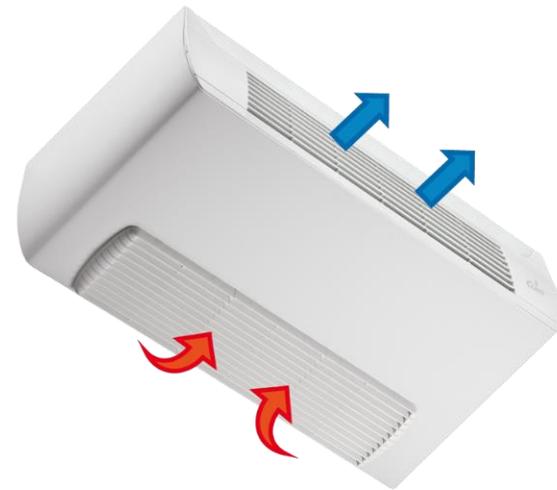
VH - Vertical unit with front inlet and vertical delivery



VE - Horizontal unit with rear inlet and horizontal delivery

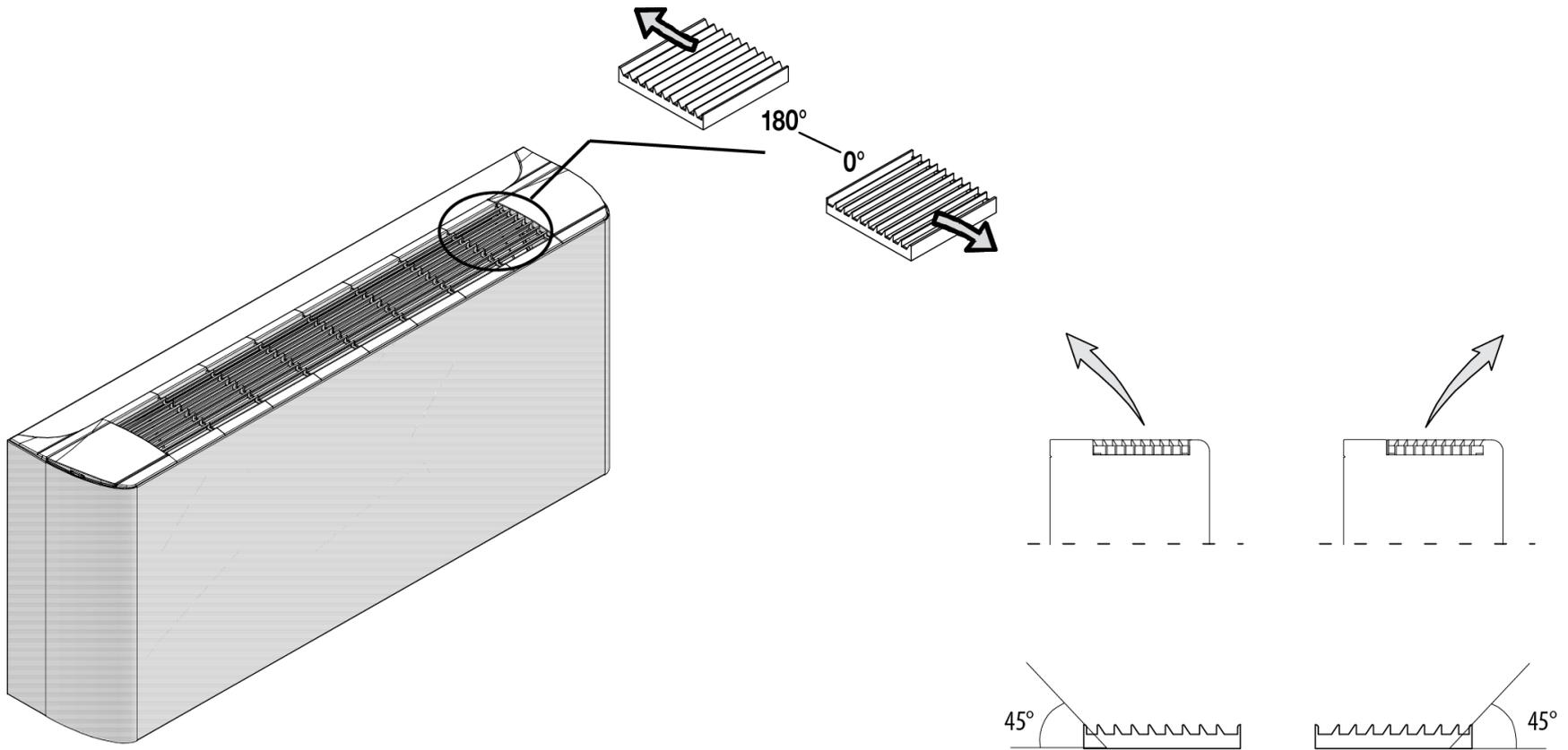


VO - Horizontal unit with bottom inlet and horizontal delivery



AIR FLOW, ORIENTATION AND INCLINATION OF THE DELIVERY GRID FINS

Delivery grids in ABS: 2 orientations of the grids are possible



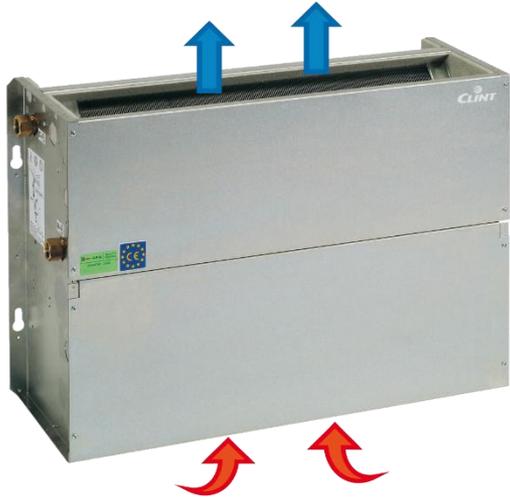
FAN COIL UNITS FOR BUILT-IN INSTALLATIONS WITH 6-SPEED OR EC INVERTER CENTRIFUGAL FANS.

EC INVERTER FAN



- Bearing structure made of extremely thick galvanized steel-sheet with holes (buttonholes) for ceiling/wall mounting directly through the structure provided with internal thermal-acoustic insulation.
- Air filter easy to remove and to wash, made of a metal frame holding filtering section.
- Drain pan provided with condensation drain and thermal insulation.
- Coil made of copper pipes and aluminum fins, with coil connections provided with anti-torsion system, manual air vent and water drain valves.
- Universal connecting terminal (mounted)
- Fan section based on centrifugal fans with double air inlet and last generation plastic blades, directly coupled to the 6-speed electric motor with 3 speeds connected in the standard configuration.
- Fan section based on centrifugal fans with double air inlet and last generation plastic blades, directly coupled to the EC inverter electronic motor. Modulating regulation with 0-10Vdc signal with control panels provided as accessory or with independent regulation system.

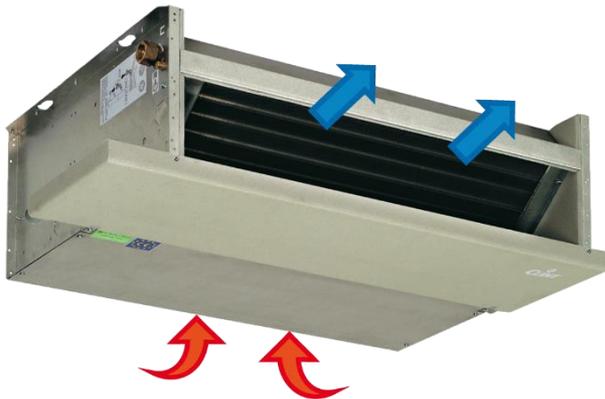
IV - Vertical unit with bottom inlet and vertical delivery



IF - Vertical unit with front inlet and vertical delivery



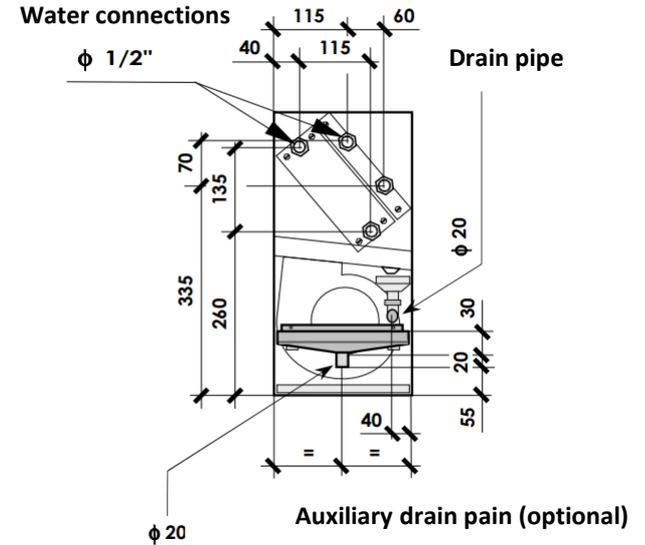
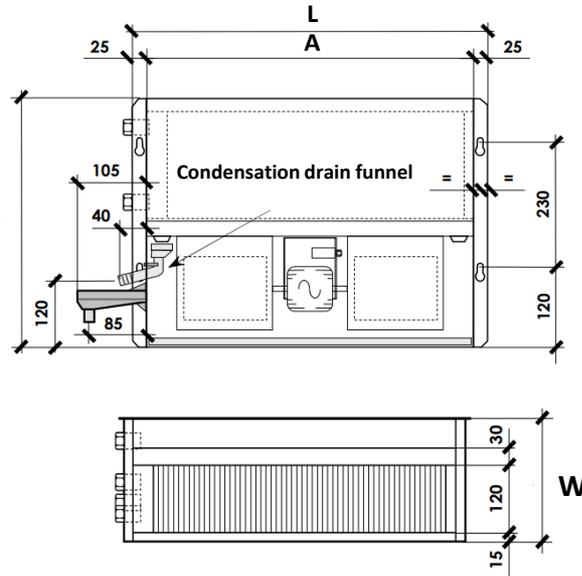
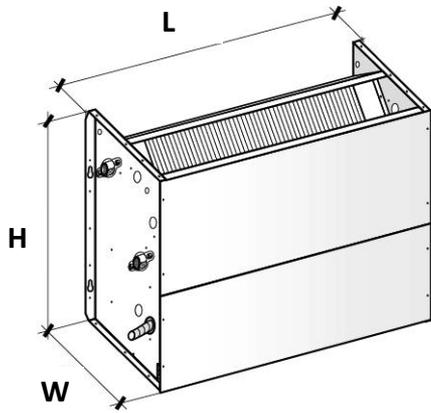
IO - Horizontal unit with rear inlet and horizontal delivery



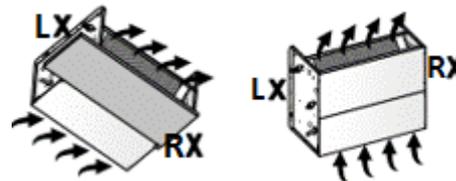
II - Horizontal unit with bottom inlet and horizontal delivery



VXI 123÷614: DIMENSIONS



DIMENSIONS			10	20	30	40	50	60	70	80	90	100	110	120
L	STD/EC	mm	450	450	650	650	850	850	1050	1050	1250	1250	1450	1450
W	STD/EC	mm	215	215	215	215	215	215	215	215	215	215	215	215
H	STD/EC	mm	450	450	450	450	450	450	450	450	450	450	450	450
A	STD/EC	mm	400	400	600	600	800	800	1000	1000	1200	1200	1400	1400



Standard hydraulic connections on the left facing the front of the unit. On site reversibility.

	VXM 123÷614 / VXI 123÷614	
Cooling capacity	1.4÷8.4 kW	
Water flow in cooling	239÷1480 l/h	
Heating capacity	1.9÷10.3 kW	
Water flow in heating	332÷1832 l/h	
Water connections	½"	
Airflow	368÷1736 m ³ /h	
Sound pressure	44 ÷ 59 db(A)	
Fans	AC 3-Speed or EC Inverter	
Versions	VXM	VXI
Vertical unit with bottom inlet and vertical delivery	VXM/VP – VXM/VP/EC	VXI/IV – VXI/IV/EC
Vertical unit with front inlet and vertical delivery	VXM/VH – VXM/VH/EC	VXI/IF – VXI/IF/EC
Horizontal unit with rear inlet and horizontal delivery	VXM/VE – VXM/VE/EC	VXI/IO – VXI/IO/EC
Horizontal unit with bottom inlet and horizontal delivery	VXM/VO – VXM/VO/EC	VXI/II – VXI/II/EC
Cooling/heating Configurations	<ul style="list-style-type: none"> • 2 Pipes: cooling only • 2 Pipes: heating only • 2 Pipes: cooling + heating • 2 Pipes: cooling + supplementary electrical heater (EH accessory) • 4 Pipes: cooling + hot water coil for 4 Pipe system (WS accessory) 	



TXW Water cassette



PRODUCTS	CURRENT RANGE	NEW RANGE
FAN-COIL WITH CABINET	FWW	VXM
BUILT-IN FAN-COIL	FIW	VXI
WATER CASSETTE	TCW	TXW
DUCTABLE UNITS	UTW	DWX

	CURRENT RANGE	NEW RANGE
		
Description	WATER CASSETTE WITH 3-SPEED OR EC INVERTER RADIAL FAN	WATER CASSETTE WITH 3-SPEED OR EC INVERTER RADIAL FAN
Name	TCW	TXW
Sizes number		
2 Pipe (AC/EC)	AC: 7 ; EC: 4	AC: 10 ; EC: 5
4 Pipe (AC/EC)	AC: 4 ; EC: 3	AC: 10 ; EC: 5
Cooling capacity (kW)	2.4 - 11	2.5 – 11.2

WATER CASSETTE: NEW SIZES

2 Pipe solution:

Cooling	Cooling capacity (kW)	2,5	3,0	4,2	4,7	5,3	5,9	8,0	8,9	10,0	11,2
NEW SIZES	AC 2 Pipe	132	142	153	163	174	184	253	263	274	284
	EC 2 Pipe	--	142	--	163	--	184	--	263	--	284

4 Pipe solution:

Cooling	Cooling capacity (kW)	2,5	3,0	4,2	4,7	5,3	5,9	8,0	8,9	10,0	11,2
NEW SIZES	AC 4 Pipe	132	142	153	163	174	184	253	263	274	284
	EC 4 Pipe	--	--	--	163	--	184	--	263	--	284

WATER CASSETTE WITH 3-SPEED OR EC INVERTER RADIAL FAN

EC INVERTER FAN



- Bearing structure made of extremely thick galvanized steel-sheet with Internal thermo-acoustic insulation. External brackets on the 4 corners for easy fixing to the roof.
- Cover panel, white RAL 9003 colour, with neutral and well-balanced shapes that fit well into any environment. Made of ABS by injection, very resistant to corrosion, rust and environmental agents.
- Central air intake grill with four manually adjustable air supply side flaps. Friction snap flaps, to ensure stable and uniform positioning.
- “Hook & Fix” coupling system, designed to facilitate the installation, removal and maintenance operations, eliminating the positioning problems typical of these systems.

WATER CASSETTE WITH 3-SPEED OR EC INVERTER RADIAL FAN

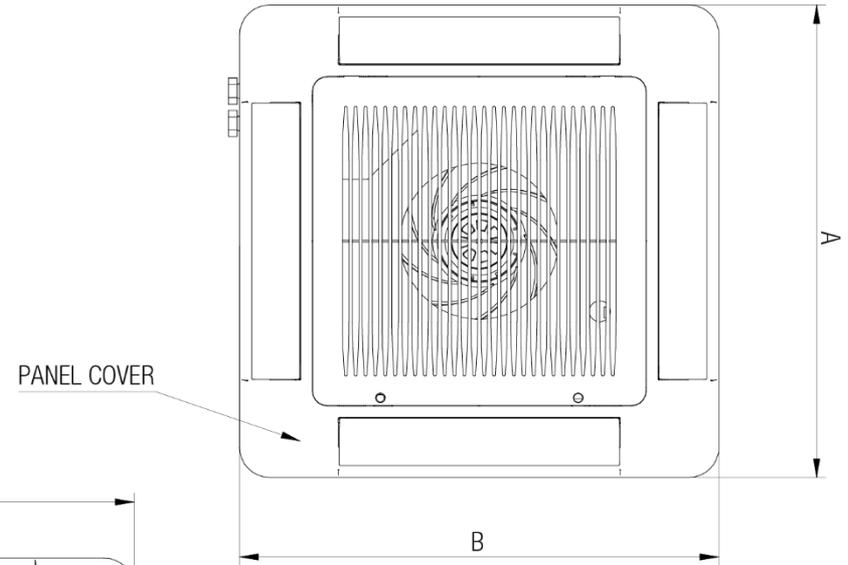
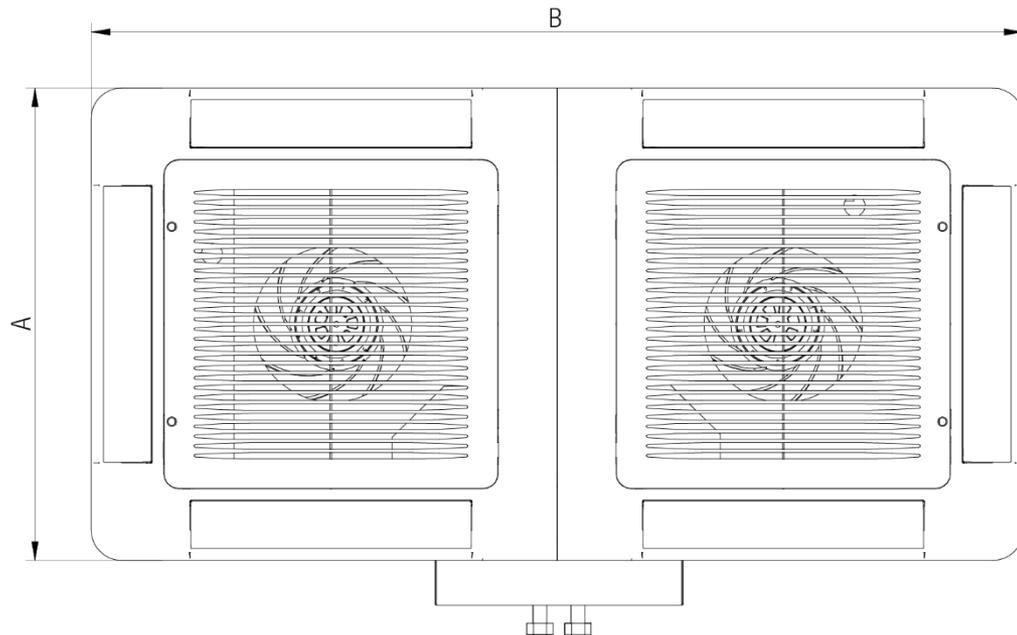
EC INVERTER FAN



- Air conveyor and drain condensate pan made by ABS injection to guarantee great strength and long life. Condensate drain pan obtained in a single piece and equipped with a drain with cap for the total emptying of the pan in case of maintenance.
- Centrifugal type condensate pump, including no-return valve to avoid frequent on/off and a two-level floater for the control of the condensate level and for alarm activation.
- Coil made of copper pipes and aluminum fins fixed by mechanical expansion. Hydrophilic aluminum fins for a better evacuation of the condensate.
- Universal connecting terminal (mounted)
- Air filter easy to remove and to wash, made of a metal frame holding filtering section.
- Radial fan with wing profile blades and built-in 3-speed electric motor.
- Radial fan with wing profile blades and built-in EC Inverter electric motor. Modulating regulation with 0-10Vdc signal with control panels provided as accessory or with independent regulation system.

PANEL COVER - DIMENSIONS

Mod.	A (mm)	B (mm)
TXW 132÷184	630	630
TXW 253÷284	630	1225



TXW 132÷284		
Cooling capacity	2.5 ÷ 11.2 kW	
Water flow in cooling	431 ÷ 1925 l/h	
Heating capacity	3.0 ÷ 11.2 kW	
Water flow in heating	512 ÷ 1927 l/h	
Water connections	3/4"	
Airflow	580 ÷ 1737 m ³ /h	
Sound pressure	42 ÷ 51 dB(A)	
Fans	AC 3-Speed or EC Inverter	
Versions	TCW Base unit for 2 Pipe system	TCW/WS Base unit for 4 Pipe system
	TCW/EC Unit with EC Inverter fan for 2 Pipe system	TCW/WS/EC Unit with EC Inverter fan for 4 Pipe system
Cooling/heating configurations	<ul style="list-style-type: none"> • 2 Pipes: cooling only • 2 Pipes: heating only • 2 Pipes: cooling + heating • 2 Pipes: cooling + supplementary electrical heater (EH accessory) • 4 Pipes: cooling + hot water coil for 4 Pipe system (TCW/WS version) 	



DWX

Ductable fan coil



PRODUCTS	CURRENT RANGE	NEW RANGE
FAN-COIL WITH CABINET	FWW	VXM
BUILT-IN FAN-COIL	FIW	VXI
WATER CASSETTE	TCW	TXW
DUCTABLE UNITS	UTW	DWX

	CURRENT RANGE	NEW RANGE
		
Description	DUCTABLE FAN COIL UNITS WITH 3-SPEED OR EC INVERTER CENTRIFUGAL FANS	DUCTABLE FAN COIL UNITS WITH 5-SPEED OR EC INVERTER CENTRIFUGAL FANS
Name	UTW	DWX
Size number		
2 Pipe (AC/EC)	AC: 11 ; EC: 7	AC: 9 ; EC: 9
4 Pipe (AC/EC)	AC: 11; EC: 7	AC: 6 ; EC: 6
Cooling capacity (kW)	4.6 – 22	6.0 – 22

DUCTABLE UNITS: NEW SIZES

2 Pipe solution

Cooling	Cooling capacity (kW)	6,0	6,7	8,4	9,4	10,8	14,4	15,4	18,2	21,9
NEW SIZES	AC/EC 2 Pipe	183	193	194	263	283	284	343	363	364

4 Pipe solutions

Cooling	Cooling capacity (kW)	6,0	6,7	--	9,4	10,8	--	15,4	18,2	--
NEW SIZES	AC/EC 4 Pipe	183	193	--	263	283	--	343	363	--

DUCTABLE FAN COIL UNITS WITH 5-SPEED OR EC INVERTER CENTRIFUGAL FANS

EC INVERTER FAN



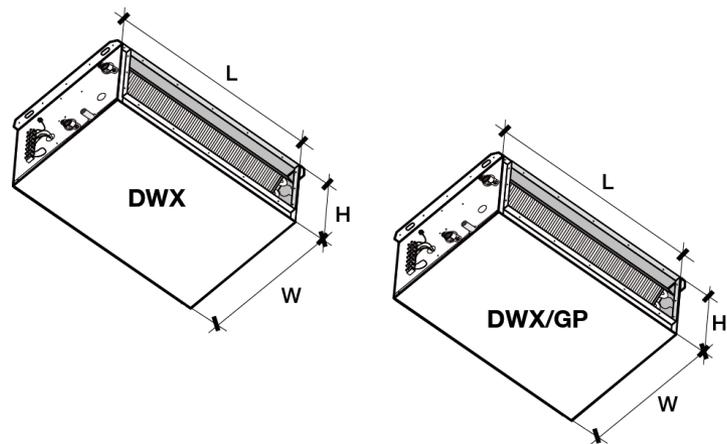
- Single skin panel units are made of extremely thick galvanized steel-sheet, resistant to rust, corrosion, and chemical agents. Internal thermal-acoustic insulation. Self-supporting and removable panels provided with holes for ceiling/wall mounting directly through the main casing.
- Double skin panel units are provided with 20mm thick panels made of internal galvanized steel sheet, external pre-painted steel white RAL 9002 colour and glass fiber insulation. Self-supporting and removable panels provided with holes for ceiling/wall mounting directly through the main casing.
- Double inclination drain pan optimized for condensate drainage, provided with drainpipe (on the same side of coil connections) with external thermal insulation.
- Highly efficient coil made of copper pipes and aluminum fins fixed by mechanical expansion, with water connections provided with anti-torsion system, manual air vent and water drain valves.

DUCTABLE FAN COIL UNITS WITH 5-SPEED OR EC INVERTER CENTRIFUGAL FANS

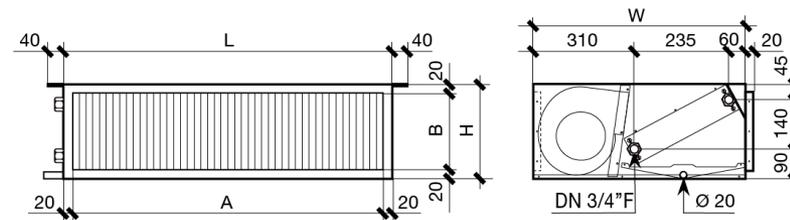
EC INVERTER FAN



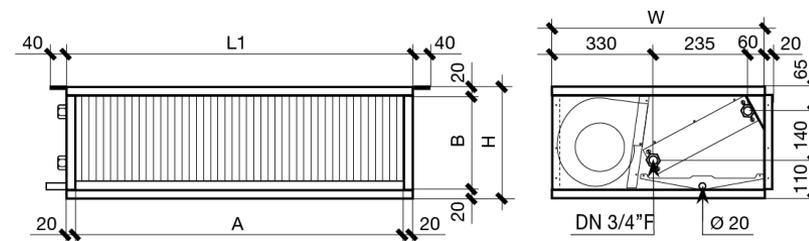
- Universal connecting terminal (mounted).
- Fan section provided with centrifugal fans with double air inlet and last generation plastic blades, directly coupled to a 5-speed electric motor, with 3 speeds connected in the standard configuration.
- Fan section provided with centrifugal fans with double air inlet and last generation plastic blades, directly coupled to the EC inverter electronic motor. Modulating regulation with 0-10Vdc signal with control panels provided as accessory or with independent regulation system.



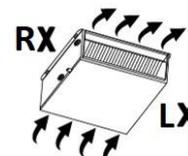
STD Version



GP Version



DIMENSIONS			183	193	194	263	283	284	343	363	364
L	STD	mm	800	800	800	1200	1200	1200	1600	1600	1600
	GP	mm	840	840	840	1240	1240	1240	1640	1640	1640
W	STD	mm	605	605	605	605	605	605	605	605	605
	GP	mm	625	625	625	625	625	625	625	625	625
H	STD	mm	275	275	275	275	275	275	275	275	275
	GP	mm	315	315	315	315	315	315	315	315	315
A	STD	mm	760	760	760	1160	1160	1160	1560	1560	1560
	GP	mm	800	800	800	1200	1200	1200	1600	1600	1600
B	STD	mm	235	235	235	235	235	235	235	235	235
	GP	mm	275	275	275	275	275	275	275	275	275



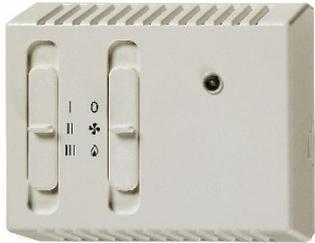
Standard hydraulic connections on the right facing the air flow. They can be inverted on site.

DWX 183÷364		
Cooling capacity	6 ÷ 21.9 kW	
Water flow in cooling	1032 ÷ 3767 l/h	
Heating capacity	6.2 ÷ 22.9 kW	
Water flow in heating	1070 ÷ 3939 kW	
Water connections	3/4"	
Airflow	1190 ÷ 3640 m ³ /h	
Available static pressure	56 ÷ 76 Pa	
Sound pressure	54 ÷ 59 dB(A)	
Fans	AC 3-Speed or EC Inverter	
Versions	DWX Base unit with single skin panel	DWX/GP Base unit with double skin panel
	DWX/EC Single skin unit with EC Inverter fans	DWX/GP/EC Double skin panel unit with EC inverter fans
Cooling/heating configurations	<ul style="list-style-type: none"> • 2 Pipes: cooling only • 2 Pipes: heating only • 2 Pipes: cooling + heating • 2 Pipes: cooling + supplementary electrical heater (EH accessory) • 4 Pipes: cooling + hot water coil for 4 Pipe system (WS accessory) 	



Remote and on-board controls for AC motors



Ambient thermostat	Electronic speed control panels	
<u>TA1 - Remote</u>	<u>VR1 - Remote</u>	<u>VB1 - On board</u>
		
Electronic remote ambient thermostat	Electronic fan speed control without thermostat	
Applicable to: <ul style="list-style-type: none"> • 2 Pipe 	Applicable to: <ul style="list-style-type: none"> • 2 Pipe 	
<ul style="list-style-type: none"> ➤ Mode: Off/Summer/Winter ➤ Reverse cool/heat logic (summer/winter) ➤ Stand alone ➤ Zone thermostat 	<ul style="list-style-type: none"> ➤ Mode: Off/Summer/Winter ➤ Fan speed: Min/Med/Max ➤ Compatibility with minimum thermostats 	

Electronic control panels

DR1 - Remote



DB1 - On board



DR2 - Remote



DB2 - On board



Manual electronic control with thermostat

Automatic electronic control with thermostat

Applicable to:

- 2 Pipe
- 4 Pipe

Applicable to:

- 2 Pipe
- 4 Pipe

- Zone thermostat
- Mode: Off/Summer/Winter
- Fan speed: Min/Med/Max
- Control of 3-speed motor: manual only
- Control of 1 or 2 valves on/off
- Air temp sensor included
- Compatibility with minimum thermostats

- Zone thermostat
- Mode: Off/Summer/Winter
- Fan speed: Min/Med/Max/Auto
- Control of 3-speed motor: manual/auto
- Always running or thermostated motor function: active/not active
- Anti-stratification function: active/not active
- Control of 1 or 2 valves on/off
- Air temp sensor included
- Compatibility with minimum thermostats

On board electromechanical control panels



<u>DBE1</u>	<u>DBE3</u>	<u>DBE4</u>
On board electromechanic control panel with bulb room thermostat	On board electromechanic control panel with minimum hot water temperature thermostast and bulb room thermostat	
Applicable to: • 2 Pipe	Applicable to: • 2 Pipe	
<ul style="list-style-type: none"> ➤ Mode: Off/Summer/Winter ➤ Fan speed: Min/Med/Max ➤ Bulb room thermostat 	<ul style="list-style-type: none"> ➤ Mode: Off/Summer/Winter ➤ Fan speed: Min/Med/Max ➤ Bulb room thermostat ➤ Minimum hot water temperature thermostats (32°C for DBE3 and 42°C for DBE4) 	

Configurable high-level control panels for AC and EC motors



High level and configurable electronic control panels

DRH1 - Remote



DBH1 - On Board



DRH2 - Remote



DBH2 - On board



Configurable electronic fan speed control
AC MOTOR

Configurable electronic fan speed control
AC OR EC MOTOR

Applicable to:

- 2 Pipe
- 2 Pipe with electrical heater
- 4 Pipe

Applicable to:

- 2 Pipe
- 2 Pipe with electrical heater
- 4 Pipe

- Zone thermostat
- Mode: Off/Summer/Winter
- Fan speed: Min/Med/Max/Auto
- Control of 1 or 2 valves on/off
- Compatibility with minimum thermostats
- Air temp sensor included
- Compatibility with water sensor

- Zone thermostat
- Mode: Off/Summer/Winter
- Fan speed: Min/Med/Max/Auto
- Control of 1 or 2 valves on/off or modulating valves
- Compatibility with minimum thermostats
- Air temp sensor included
- Compatibility with water sensor

High level and configurable electronic control panels

DBH3 - On board



Configurable electronic control **EC MOTOR**

Applicable to:

- 2 Pipe
- 2 Pipe with electrical heater
- 4 Pipe

- Zone thermostat
- Mode: Off/Summer/Winter
- Fan Speed: 4 manual speeds with re-modulable min/max range
- No 2 trimmers to re-modulate min/max working range
- Control of 1 or 2 valves on/off
- Compatibility with minimum thermostats
- Air temp sensor
- Compatibility with water sensor

IR remote control (COMPLETE KIT)

IRT



Motherboard with IR receiver and remote control

Applicable to:

- 2 Pipe
- 4 Pipe

- Kit complete of:
 - Motherboard
 - Air sensor
 - Water sensor
 - IR receiver
 - IR remote control
- Control valves on/off management

Electronic control panels

TA1
Ambient
thermostat



VR1 – VB1
Fan speed control panels
without thermostat



DR1 – DB1
Manual electronic control
panels with thermostat



DR2 – DB2
Automatic electronic control
panels with thermostat



High level and configurable electronic control panels

DRH1 – DBH1



AC MOTOR

DRH2 - DBH2



AC/EC MOTOR

DBH3



EC MOTOR

(Air sensor included)

On board electromechanical control panels



DBE1 - Control on board
(Bulb room thermostat included)



DBE3 - Control on board



DBE4 - Control on board

(Bulb room thermostat + minimum hot water temperature thermostat included
32°C for DBE3 and 42°C for DBE4)

Electronic control panels

TA1
Ambient
thermostat



VR1
Fan speed control panel
without thermostat



DR1
Manual electronic control
panel with thermostat



DR2
Automatic electronic control
panel with thermostat



High level and configurable electronic control panels

DRH1



AC MOTOR

DRH2



AC/EC MOTOR

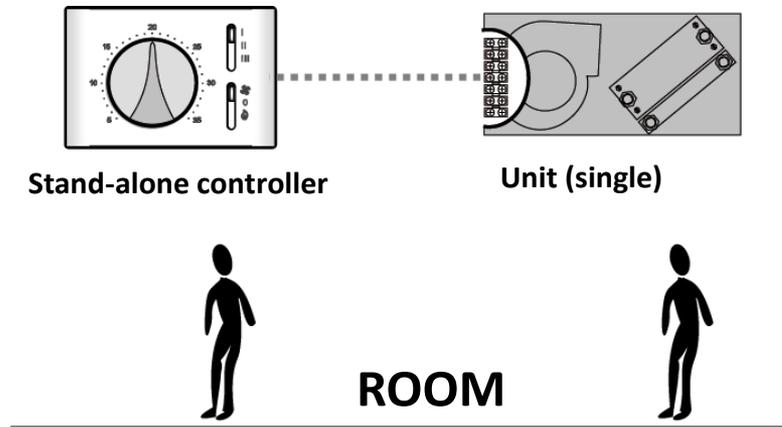
(Air Sensor included)

Regulation network



STAND-ALONE FUNCTION

- Independent control to control 1 only/single unit.
- Classic remote wall-mounted control which controls a small unit (ex. one fan-coil) installed in the same environment.
- The controller cannot be connected to more than 1 unit, or networks, or UCB communicating systems.

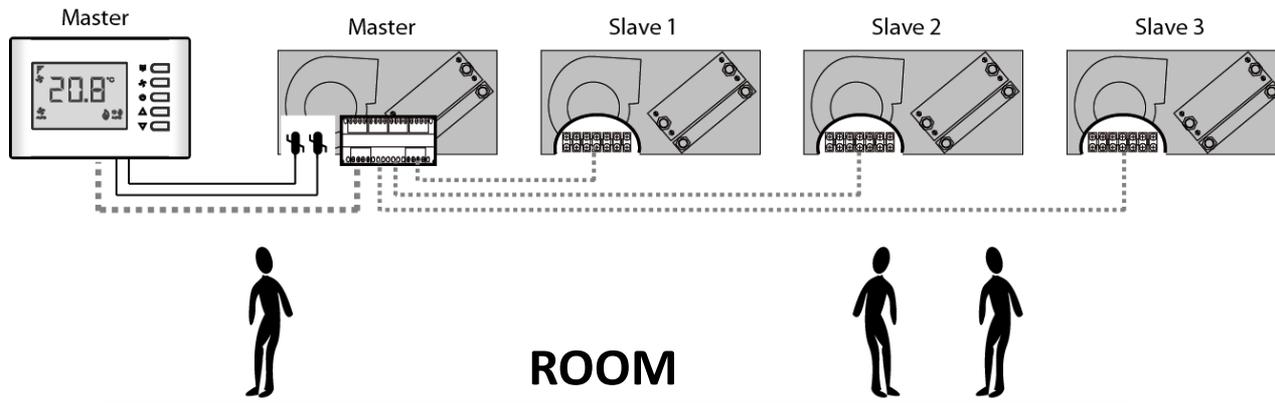


MASTER UNIT FUNCTION

System consisting of a controller that controls one unit (Master), which in turn controls other units (Slave).

There are several models with different operating modes:

- **MASTER-SLAVE for the open-space regulation**
- **MASTER-SLAVE for the regulation of the areas at fixed set-point**
- **MASTER-SLAVE for the regulation of the areas with recalibrated parameters**



MASTER-SLAVE for the Open-Space control

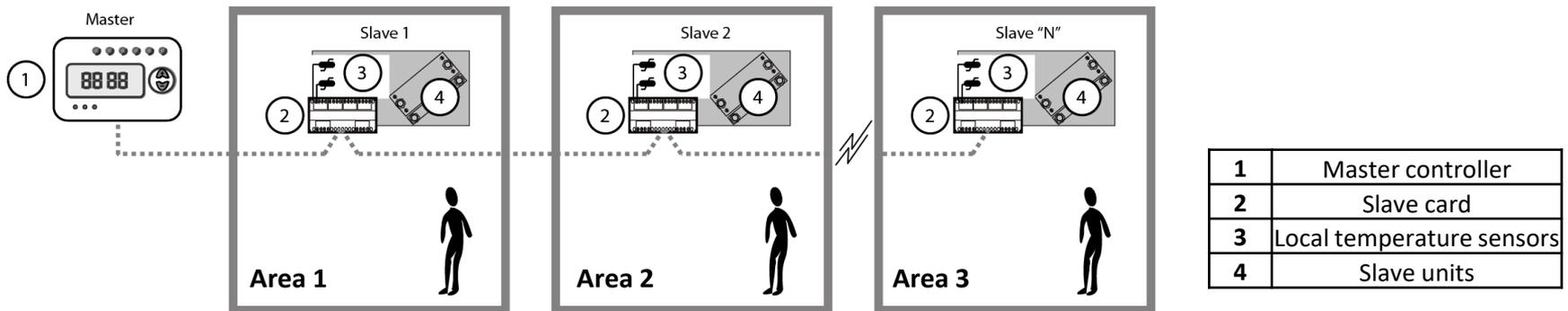
- All the Slaves work in the same way as the Master.
- The system considers that all the units to be controlled (Master + Slave) are installed in a single room (open-space)
- Designed to prevent that all these units, installed in the same room, work in different way (ex.: one unit working at Max speed , one at Min ... one at OFF).
- Usually, a Master controller measures the temperature at a single point through a single sensor and in accordance with operating mode (set only on the Master controller) it adjusts all units in the same way.

The simplest, cheapest and most functional solutions:

- ✓ **3 speed AC~230V units:** install 1 simple stand-alone controller + 1 **MC4** interface card (or 2,3, ... **MC4** depending on requirements)
- ✓ **For EC~230 units:** install 1 simple stand-alone controller that controls several units connected in parallel (check max connectable number)

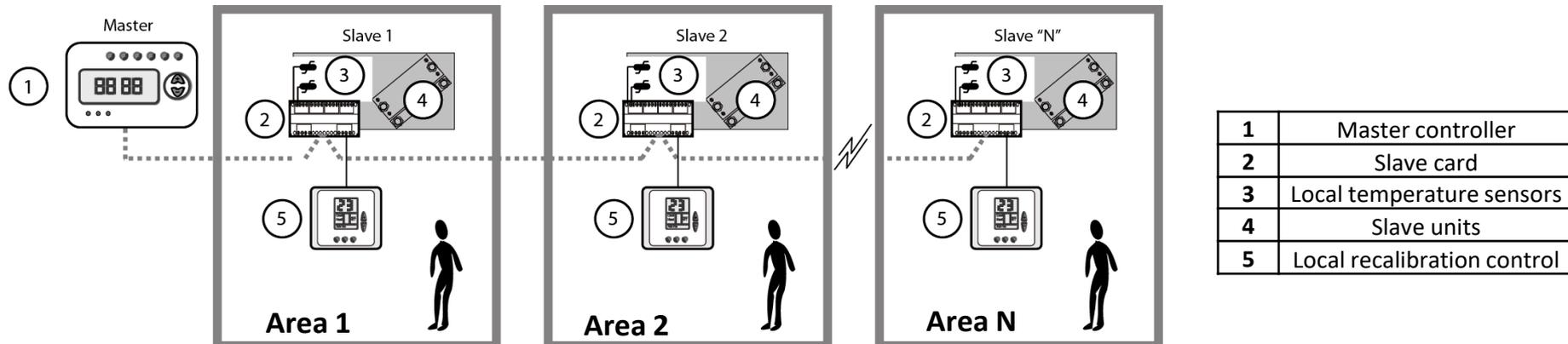
MASTER-SLAVE for the control of the areas at Fixed Set-Point

- All the Slaves work with the same parameters (set with the Master), but independently with their own local temperature.
- Usually, each Slave unit comes with its own Slave card and its own local temperature sensor.
- With a single Master are set the wished working parameters (ex. AUTO speed and SET-POINT=20°C), which are then transferred and acquired by all the Slave cards (same parameters for all the Slaves).
- The Slaves work all with the same settings, but each one of them at its own local air temperature.
- The Slaves can also be installed in different rooms (ex. independent offices for which setting the same temperature, the same speed, etc.. but at the same time there is a single centralized control).



MASTER-SLAVE for the control of the areas with Recalibrated Parameters

- All the Slaves work at the same basic parameters (set by the Master), but they can be connected to a local control that allows the local re-calibration in autonomy, ensuring maximum flexibility and independence.
- The system considers that the Slave units to be controlled are installed in different rooms (and hence with the possibility to have different instant temperatures in each room) for which it is left to the user the possibility to manage locally some regulation parameters.
- The system can also be architected to achieve maximum levels of autonomy (each Slave can be provided with local control for the recalibration).
- This kind of Master-Slave is usually used in the systems with **UCB supervision**: in these cases the Master is provided with integrated communication (connected to the network), while the Slave card is not connected, then the central unit will see (only) the Master as the only unit of the area.



MC4



Multicontrol connection card

Applicable to:

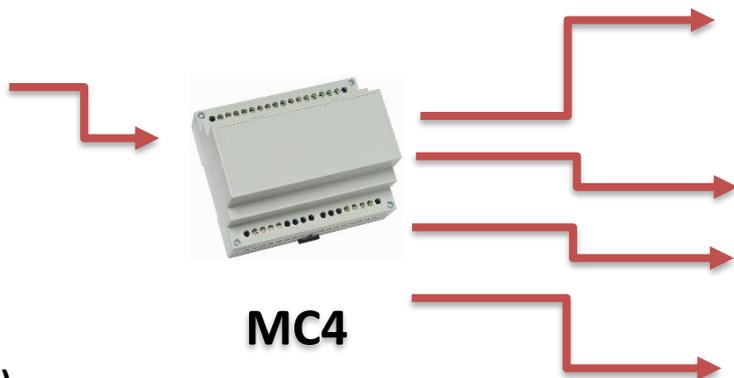
- 2 Pipe
- 4 Pipe

- Suitable to control up to max No 4 motors by 3A.
- Each control panel can control one 3-speed motor only
- One control panel can control up to 50 MC4 cards connected in parallel
- All the units controlled by the MC4 work in the same way, according with the control panel settings
- The interface card is an accessory to be added to the remote control.

Control with MC4



Control panel
(every type
DR; DRH; DB; DBH)



MC4



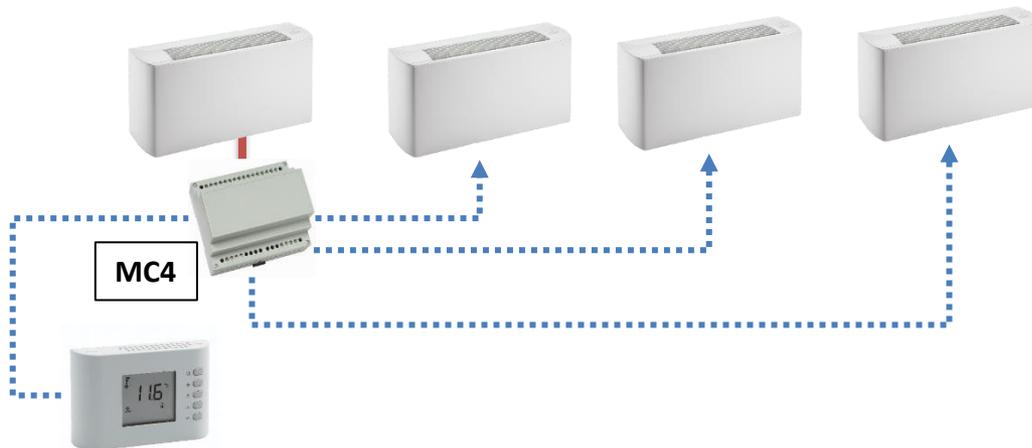
.....
up to 4 units

STAND ALONE

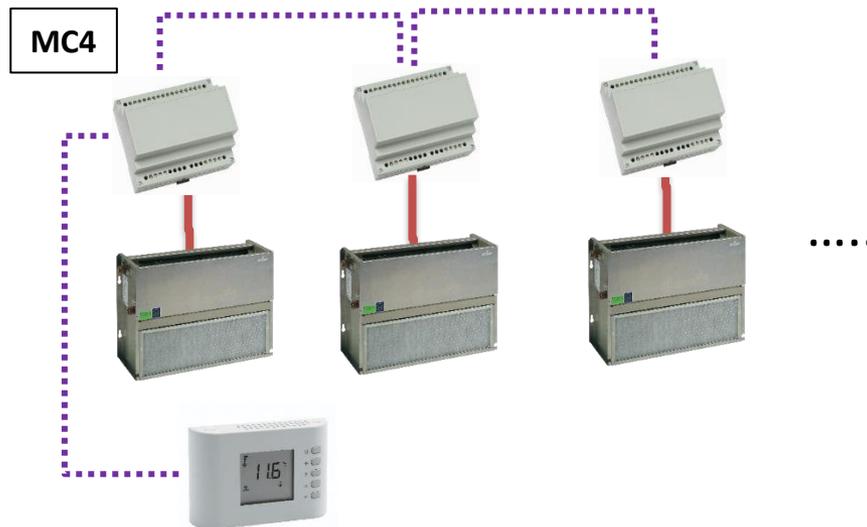
MC4



MASTER-SLAVE regulation for Open-Space



MASTER-SLAVE regulation at Fixed Set-Point



AC MOTOR

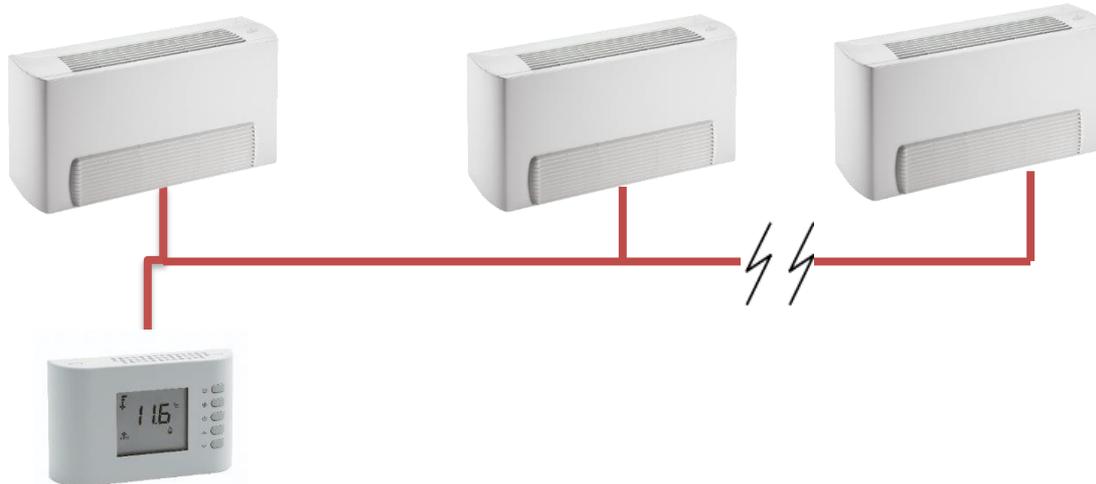
Any type of terminal unit

STAND ALONE



DRH2

In serie or in parallel connections



DRH2

$N \rightarrow$ Max n° of connectable units: make sure that the total impedance is compatible with the 0-10Vdc output of the controller

Any type of terminal unit

UCB



Universal control card with Modbus RTU protocol

Applicable to:

- 2 Pipe
- 4 Pipe

- Universal card for AC or EC units
- Can be networked by a Bus data transmission as the local unit network (peripheral unit).
- Complete and flexible card, with Dip-switch address + Dip-switch configuration. The device is pre-programmed by the factory to save time during installation.
- Able to manage all unit's parameters, like: "Speed manual/AUTO", "Thermostated or always ON motor", "Change-over Summer/Winter manual/AUTO (for 2 Pipe units, AUTO in function of the water temperature with SNA sensor mandatory)"
- Compatible with all supervision systems
- Communication MODBUS protocol

SYSTEM COMPONENTS

Components	Description
UCB	UNIVERSAL regulation card with MODBUS
SNA	Air temperature sensor each local unit (mandatory accessory)
SNW2 SNW3	<ul style="list-style-type: none"> - Summer/winter water temperature sensor - Minimum water temperature sensor (optional accessories, only if request)
IRC	Wall mounted digital control (optional accessories, only if request)



UCB Connection. STAND-ALONE



UCB



IRC



UCB



IRC

•••••



UCB



IRC

Any type of terminal unit

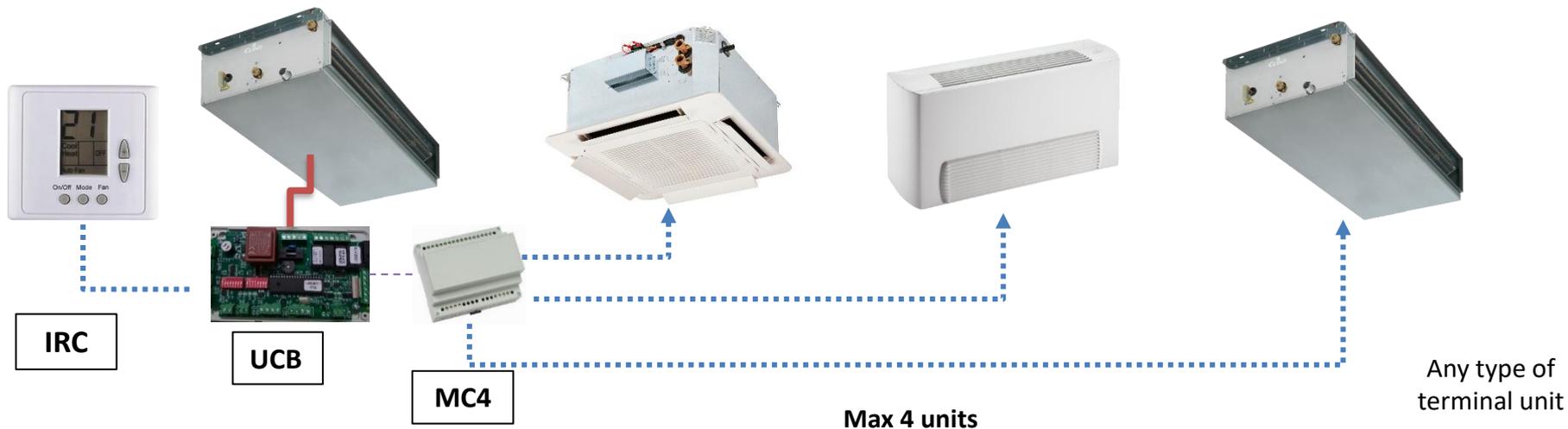


Air temperature sensor (mandatory accessory)

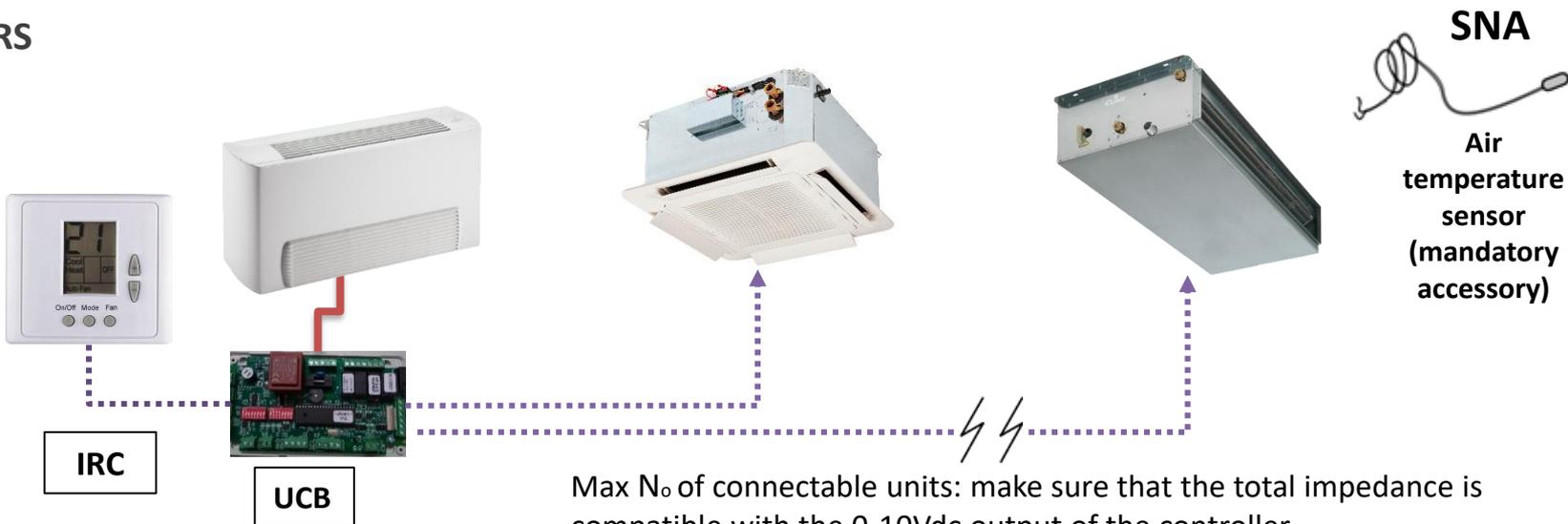
AC/EC MOTORS

UCB Connection. MASTER-SLAVE for the Open-Space regulation

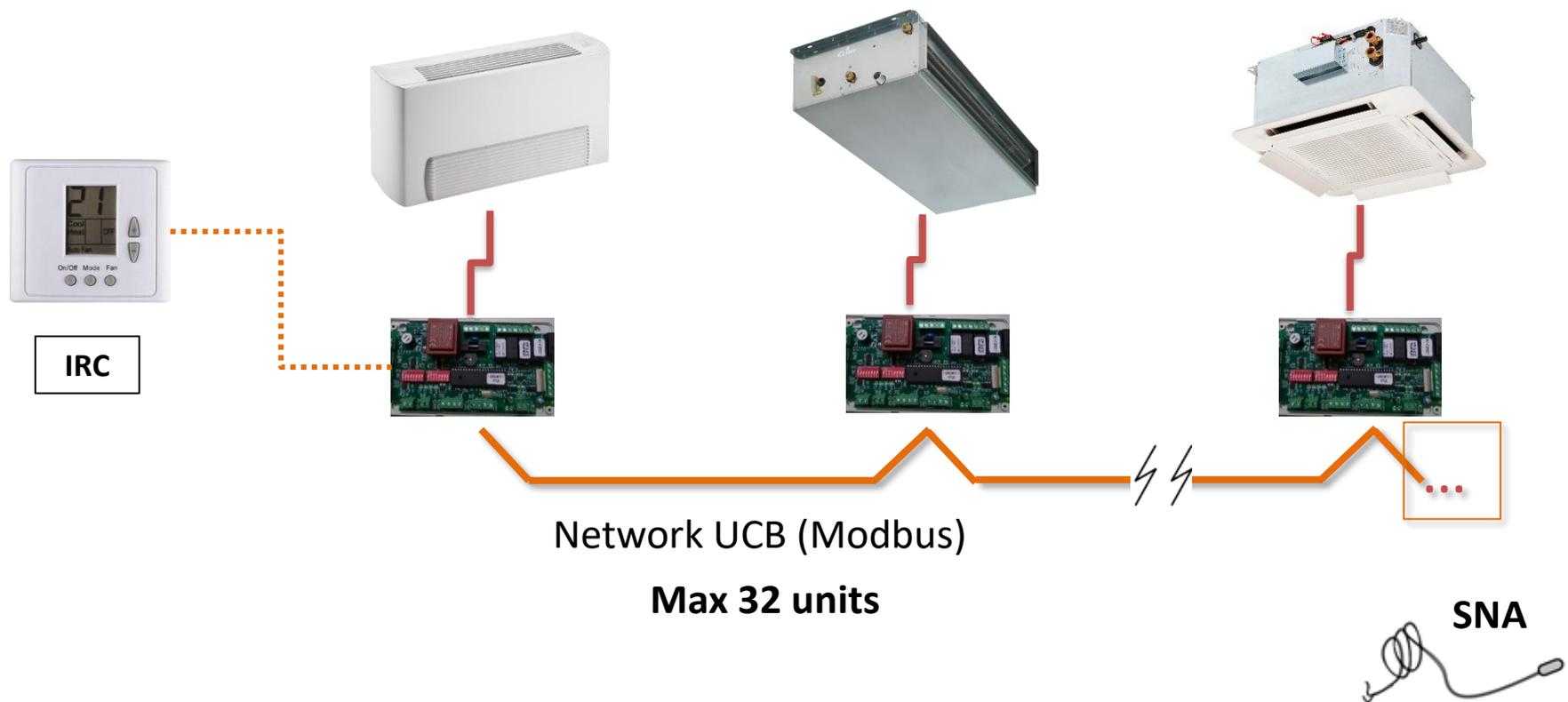
AC MOTORS



EC MOTORS



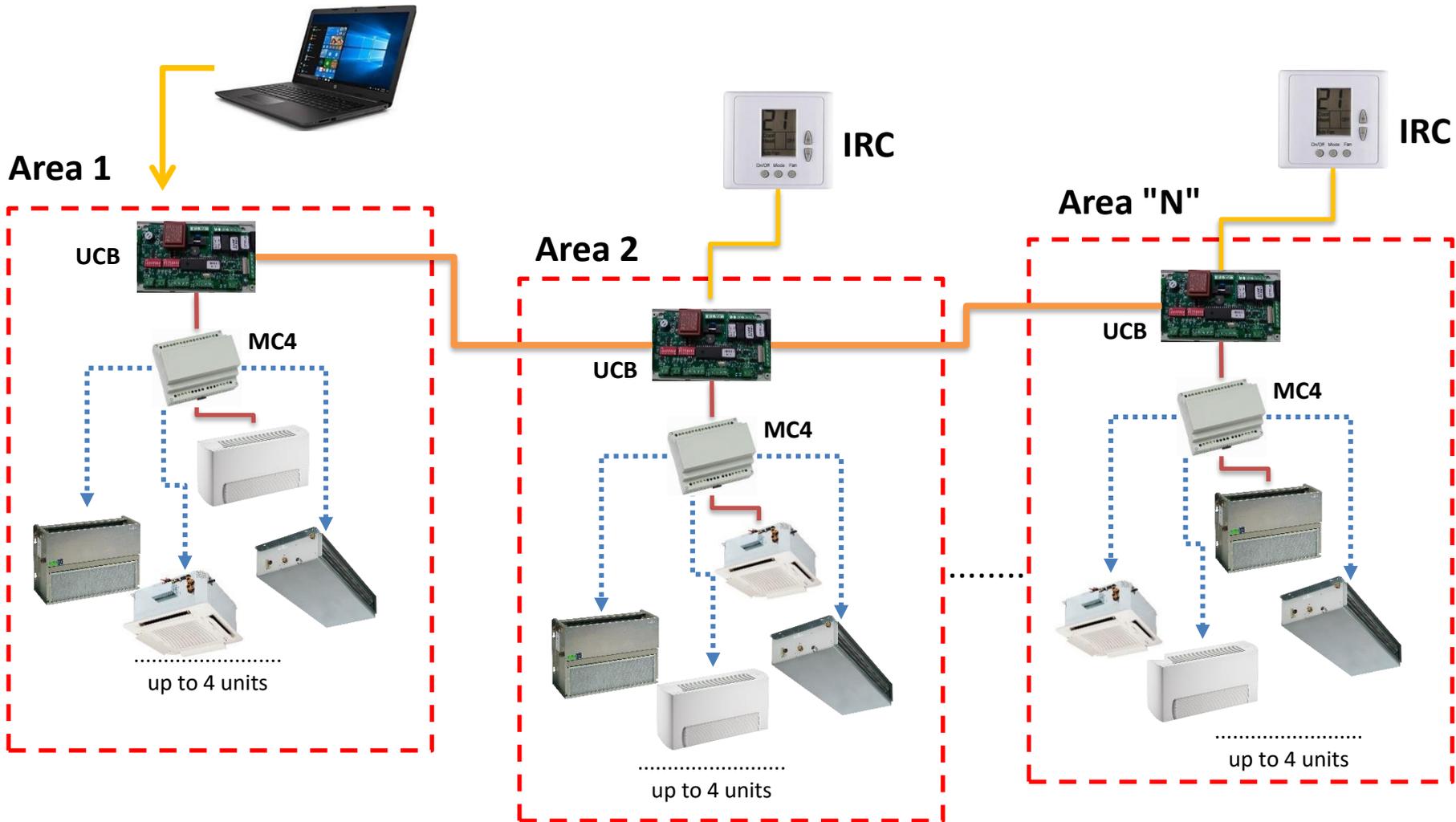
UCB Connection. MASTER-SLAVE for the control of the areas at Fixed Set-Point



Suitable for Mixing units AC~230V and EC~230V

Air temperature sensor
(mandatory accessory)

UCB Connection. MASTER-SLAVE for the control of the areas with Recalibrated Parameters



CONFIGURATIONS FOR FAN COIL UNITS WITH AC/EC MOTOR



	VXM 123÷614	VXI 123÷614	TXW 132÷284	DWX 183÷364
<i>Only remote control</i>	✓	✓	✓	✓
<i>Only control on unit board</i>	✓	X	X	X
<i>Zone control</i>	Max 4 units with MC4 option (AC)			
<i>UCB Connection</i>	✓	✓	✓	✓

CONTROLS COMPATIBILITY



		VXM 123÷614	VXI 123÷614	TXW 132÷284	DWX 183÷364
TA1 – Wall mounted electronic ambient thermostat for AC version		✓	✓	✓	✓
VR1 – Wall mounted electronic speed control panel for AC version		✓	✓	✓	✓
DR1 – Wall mounted manual electronic control panel for AC version		✓	✓	✓	✓
DR2 – Wall mounted automatic electronic control panel for AC version		✓	✓	✓	✓
DRH1 – Wall mounted configurable electronic control panel for AC versions		✓	✓	✓	✓
DRH2 – Wall mounted configurable electronic control panel for AC/EC versions		✓	✓	✓	✓
VB1 – On board electronic speed control panel for AC version		✓	✗	✗	✗
DB1 – On board manual electronic control panel for AC version		✓	✗	✗	✗
DB2 – On board manual electronic control panel for AC version		✓	✗	✗	✗
DBH1 – On board configurable electronic control panel for AC versions		✓	✗	✗	✗

CONTROLS COMPATIBILITY

		VXM 123÷614	VXI 123÷614	TXW 132÷284	DWX 183÷364
DBH2 – On board configurable electronic control panel for AC/EC versions		✓	X	X	X
DBH3 On board configurable electronic control panel for EC versions		✓	X	X	X
DBE1 – On board electromechanics control panel for AC version		✓	X	X	X
DBE3 – On board electromechanics control panel with TMB3 for AC version		✓	X	X	X
DBE4 – On board electromechanics control panel with TMB4 for AC version		✓	X	X	X
IRC – Wall mounted digital control for UCB		✓	✓	✓	✓
IRT - Motherboard with IR receiver and remote control		X	X	✓	X

Accessories

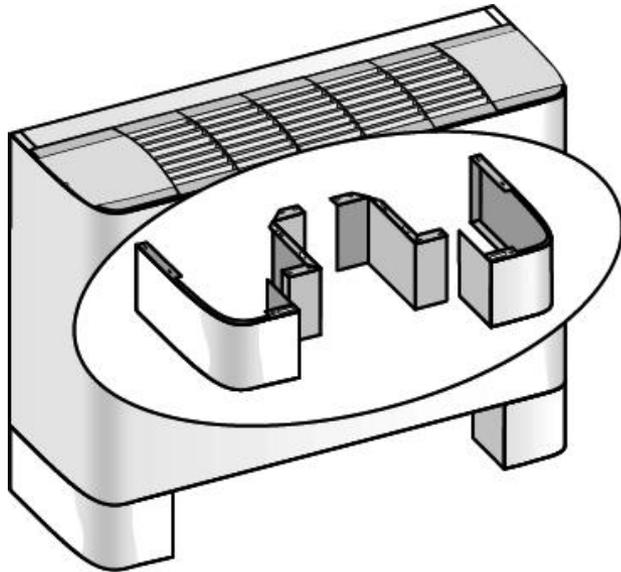


G.I. INDUSTRIAL
HOLDING



Z

Couple of feet



Availability

VXM 123÷614



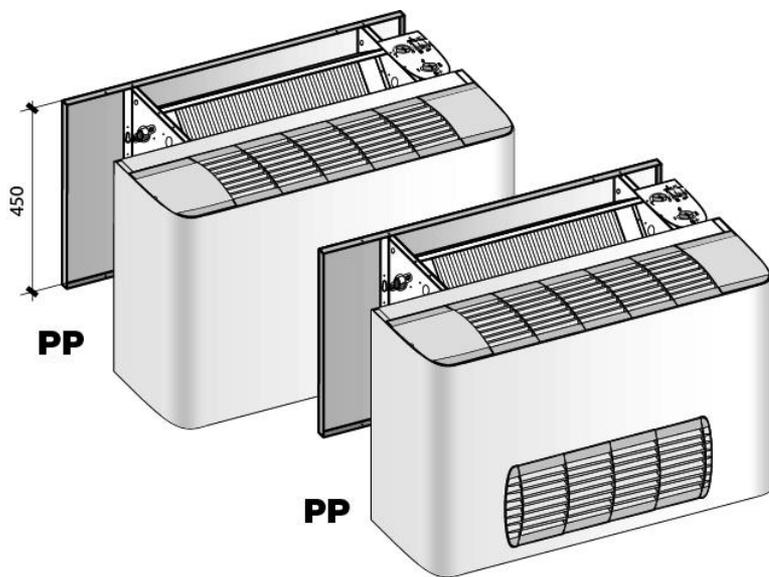
They are used to support the fan coil unit whenever the wall fixing is impossible and aesthetically to cover the hydraulic and electrical connections coming from the floor; pedestal in pre-painted metal sheet.



PP/TP

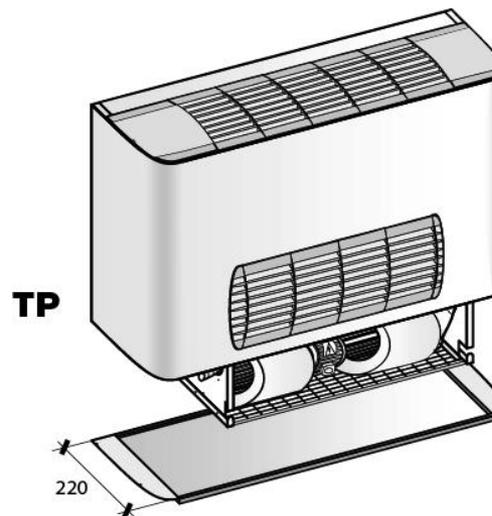
Rear panel and rear closure

PP: Rear panel



Low closing back panel
made of pre-painted steel

TP: Rear closure



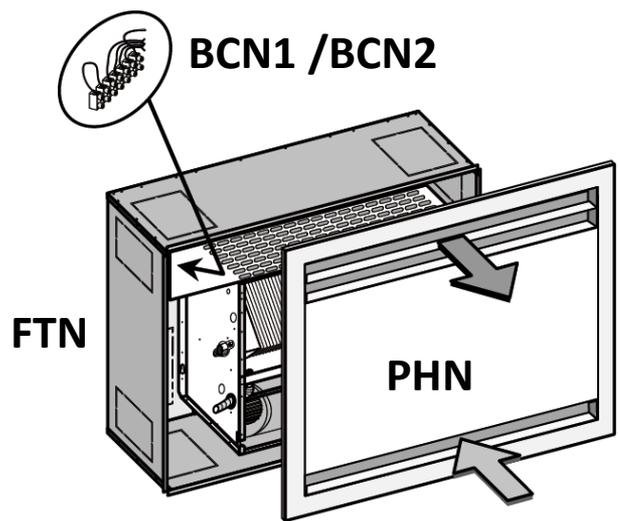
Bottom closing panel without grill
made of pre-painted steel

Availability	
VXM 123÷614	✓

FTN/PHN

False frame with panel for IV version

Availability	
VXI 123÷614	✓ (Only for IV version)



BCN1: connecting terminal for FTN. Suitable for AC versions

BCN2: connecting terminal for FTN. Suitable for EC versions

FTN: false frame for IV version

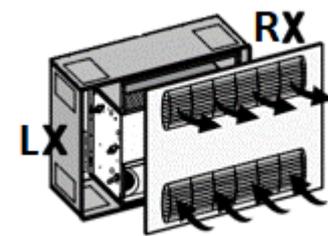
PHN: aesthetic panel for FTN



It is necessary to specify the water coil connection side

LX: Left side (STD)

RX: Right side



GR

Cover panel with grill

Availability

TXW 132÷284

✓ (Included)



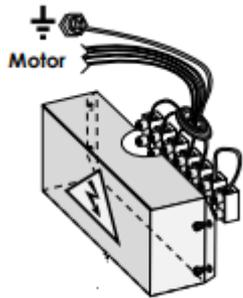
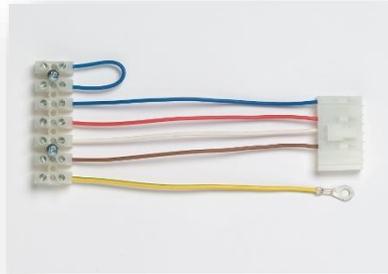
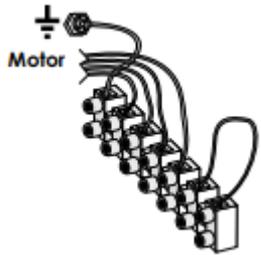
Single cover panel.
Suitable for sizes 132÷184



Double cover panel.
Suitable for sizes 253÷284

BC

Universal connecting terminal

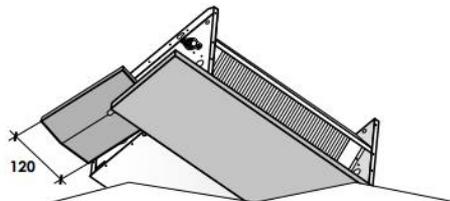
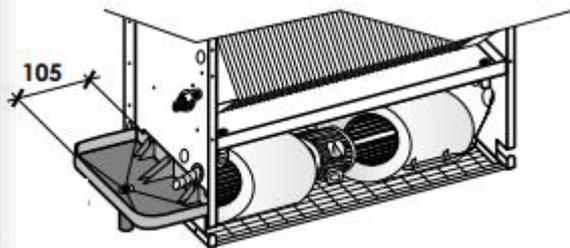


Availability	
VXM 123÷614	✓ (included only in horizontal versions)
VXI 123÷614	✓ (included)
DWX 183÷364	✓ (Included)
TXW 132÷284	✓ (Included)

The universal connecting terminal is always required when installing a remote control

C/C1/C2

Auxiliary condensate drain pan



	Availability
VXM 123÷614	✓ C1: vertical versions ✓ C2: horizontal versions
VXI 123÷614	✓ C1: vertical versions ✓ C2: horizontal versions
DWX 183÷364	✓ C: all versions
TXW 132÷284	✓ C: all versions

C: Auxiliary condensate drain pan

C1: Auxiliary condensate drain pan for vertical versions

C2: Auxiliary condensate drain pan for horizontal versions

Suitable to collect 2 and/or 3 way valves condensate.

MP/MP1/MP2

Condensate drain pump

Availability	
VXM 123÷614	<ul style="list-style-type: none"> ✓ MP1: vertical versions ✓ MP2: horizontal versions
VXI 123÷614	<ul style="list-style-type: none"> ✓ MP1: vertical versions ✓ MP2: horizontal versions
DWX 183÷364	<ul style="list-style-type: none"> ✓ MP: all versions

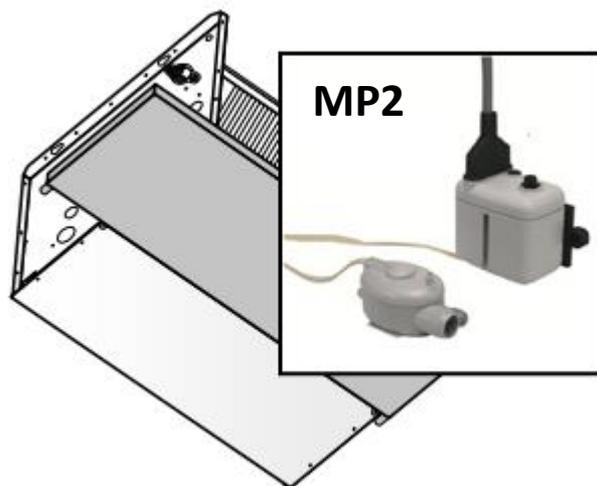
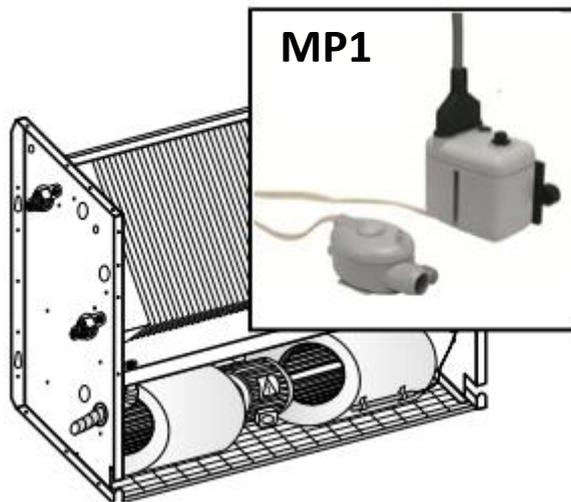
MP: Condensate drain pump

MP1: Condensate drain pump for vertical versions

MP2: Condensate drain pump for horizontal versions

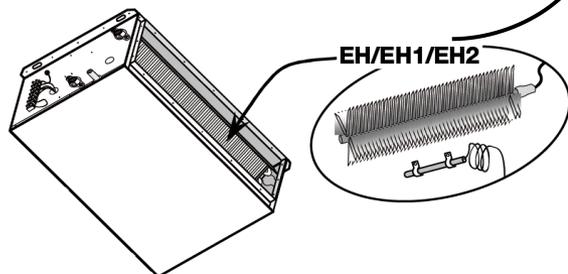
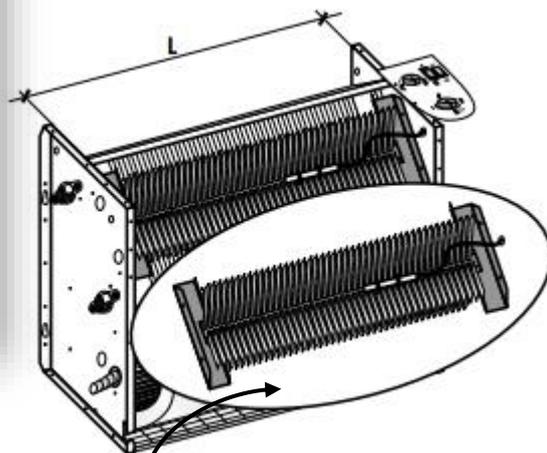
Max water flow 8 l/h with 0 m.w.c.,
 Water flow 6,5 l/h with 1 m.w.c.,
 Water flow 4 l/h with 3 m.w.c.,
 water flow 0 l/h with 6 m.w.c.

Provided with 8A@250V alarm contact.



EH/EH1/EH2

Supplementary electrical heater



Availability	
VXM 123÷614	✓ EH1 ✓ EH2
VXI 123÷614	✓ EH1 ✓ EH2
DWX 183÷364	✓ EH
TXW 132÷284	✓ EH1 ✓ EH2

For low capacities, it is possible to require EH/EH1/EH2 electrical heaters integrated inside the unit, installed immediately after the water coil. In this way the unit will be more compact. Compatibility for both 2 Pipe (1 coil) and 4 Pipe units (2 coils).

This solution must be required when purchasing the unit, as the electrical heater is installed and tested directly when assembling, getting a complete and tested product at the factory. EH/EH1/EH2 are 230Vac/1Ph/50-60Hz, 2-stages (can be powered a single stage at a time, NOT both at once, unit can be overheated)

Electrical heaters max working temperature: 350°C.

SFA/SFD

Flanges

SFA: Air renewal flange

Galvanized steel ring for external air intake \varnothing 72 mm x L 100mm.

SFD: Duct connection flange

Galvanized steel ring for treated air supply in the adjacent room \varnothing 155 mm x L 100mm.

Availability

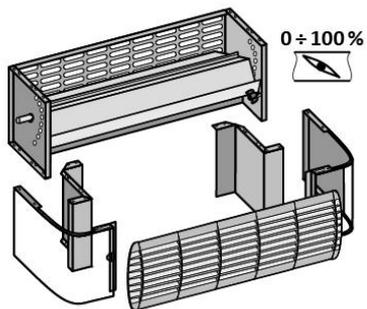
TXW 132÷284

✓ (Included)

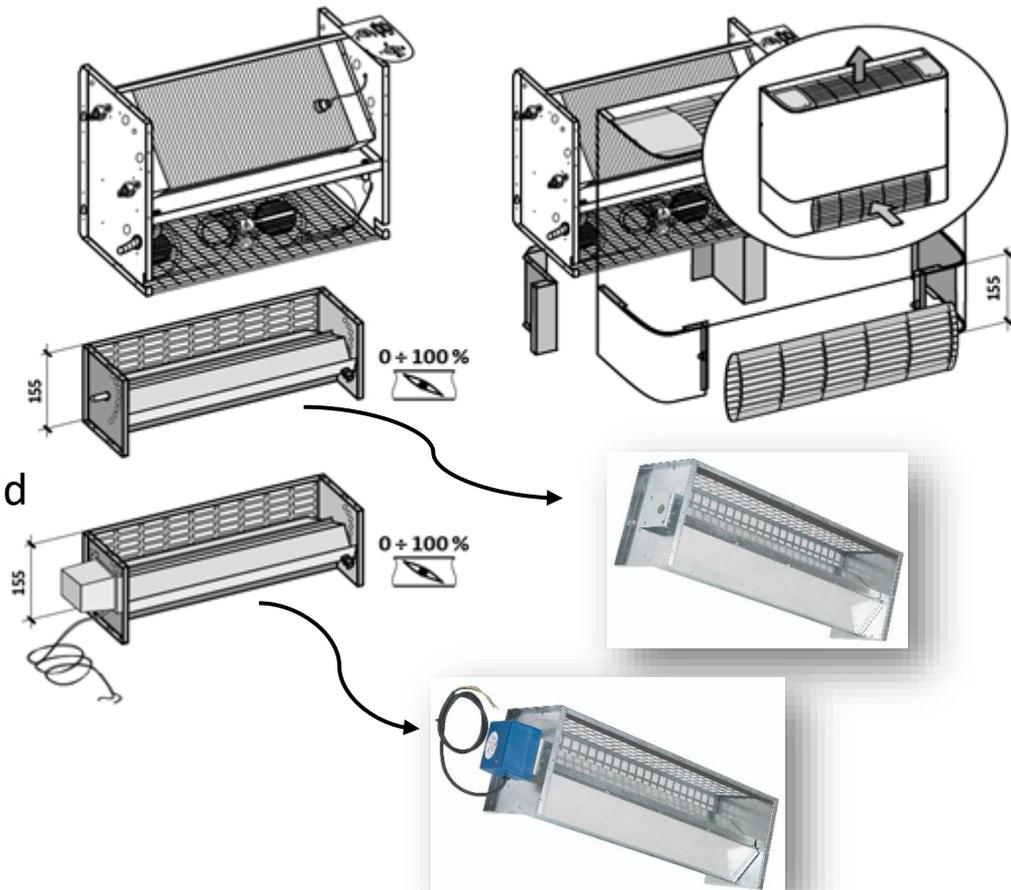
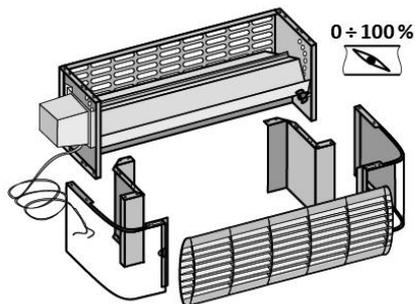
SG/SMG

Manual and on/off motorized dampers with grid

SG: manual damper with grid



SMG: on/off motorized damper with grid



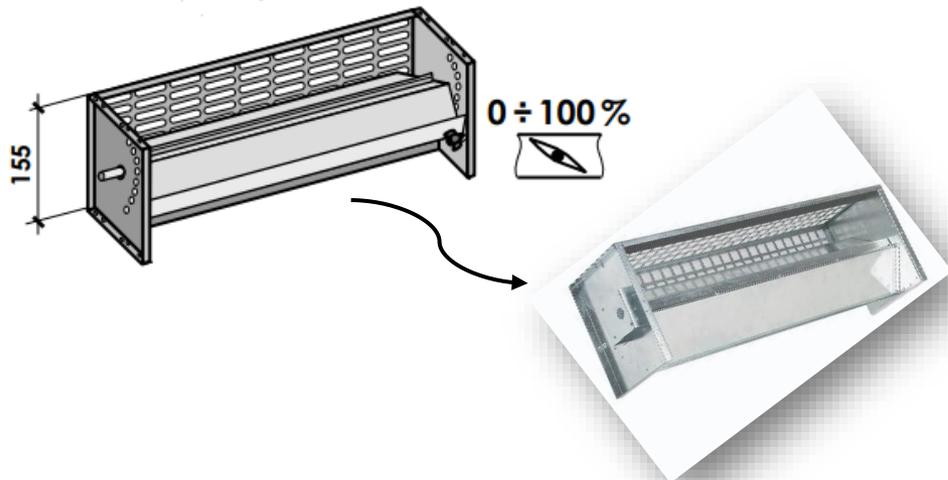
Availability	
VXM 123÷614	✓

Closed damper: external air flow 0%, internal air flow 100%
 Damper totally open: external air flow 100%, internal air flow 0%

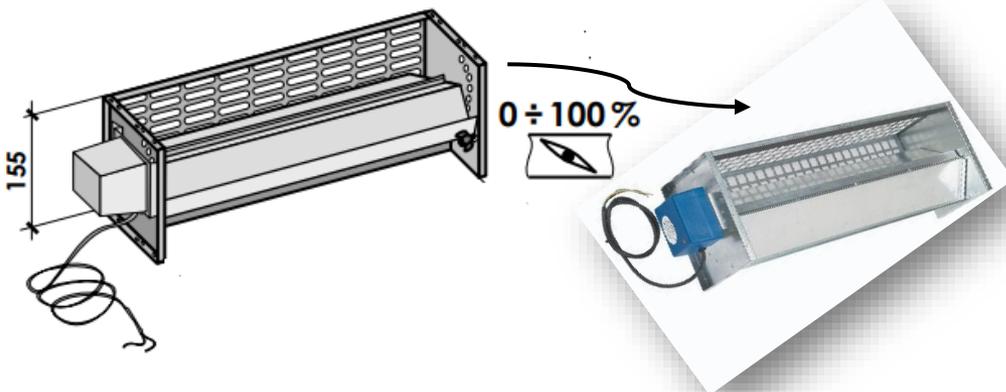
S/SMF

Manual and on/off motorized dampers

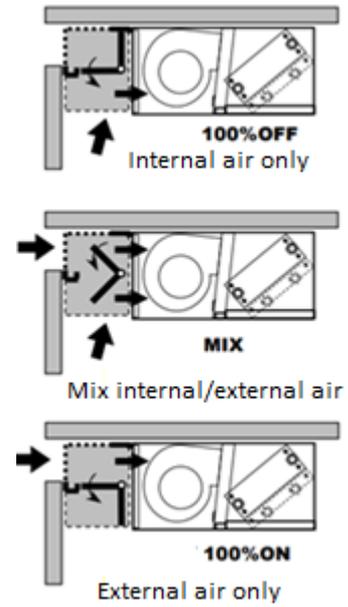
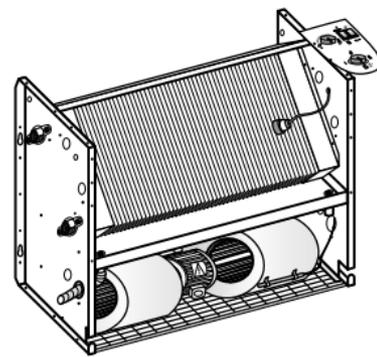
S: Manual damper



SMF: On/off motorized damper



Availability	
VXI 123÷614	✓



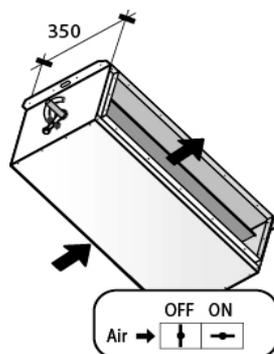
Closed damper: external air flow 0%,
internal air flow 100% -
Damper totally open: external air flow
100%, internal air flow 0%

MBL/MBP/MBLS/MBPS

Manual and on/off dampers with servo-motor

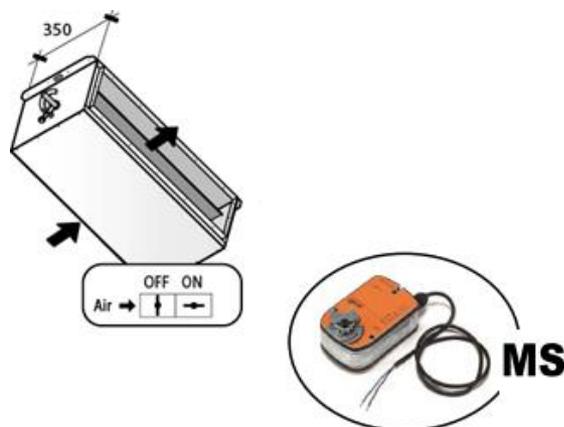
Manual damper with closing 0-33%-100-67%

- MBL
- MBP (for GP versions)



On/off damper with servo-motor

- MBLS
- MBPS (for GP versions)



Availability	
DWX 183÷364	✓



P3M/P3A

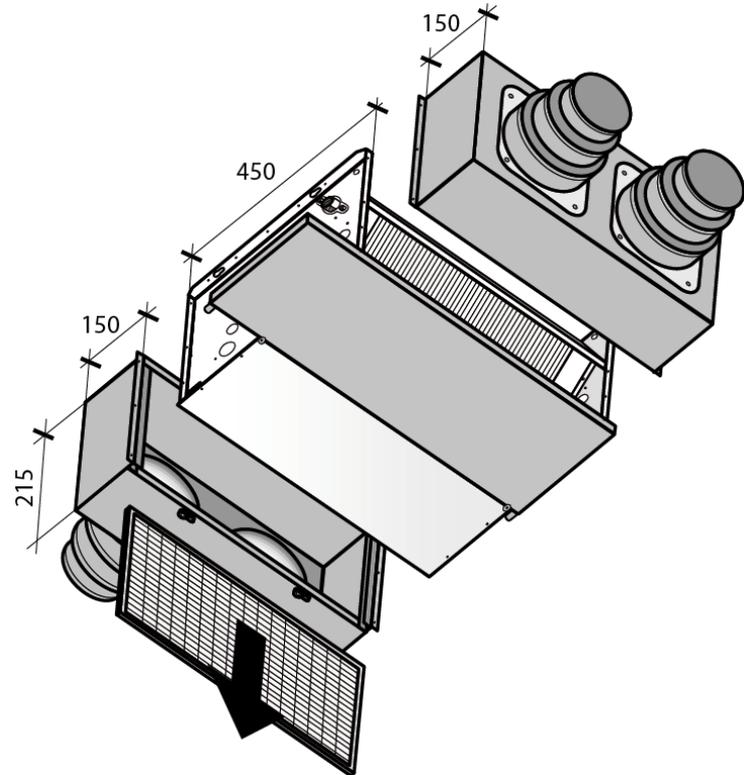
Plenum with round ducts

P3M: Supply plenum with round ducts



Availability	
VXI 123÷614	✓

P3A: Intake plenum with round ducts



PM/PR

Straight plenum

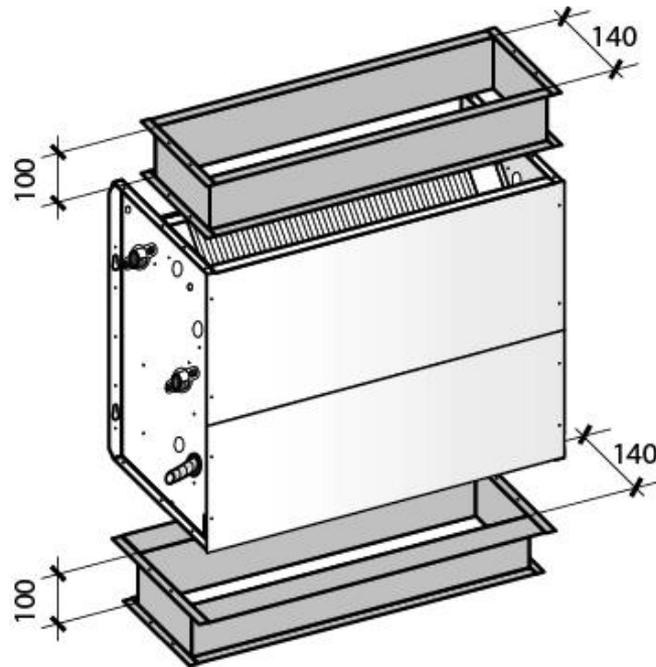
PM: Supply plenum



PR: Intake plenum



Availability	
VXI 123÷614	✓



P9M/P9A

Supply plenum with 90° ducts

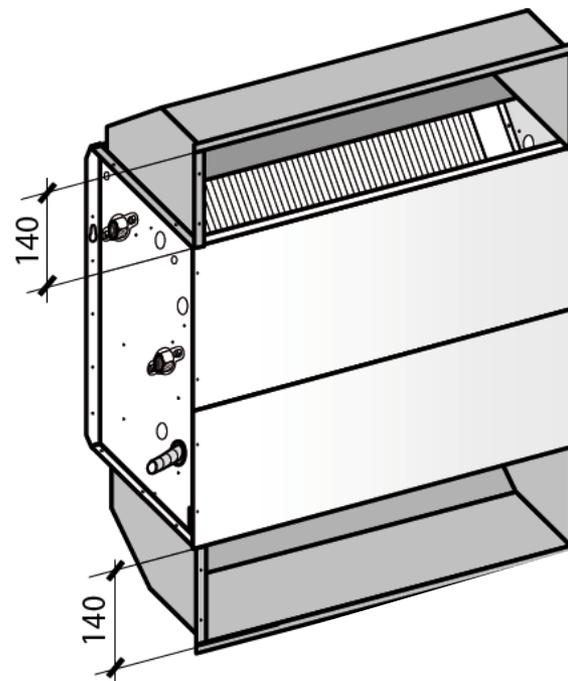
P9M: Supply plenum with 90° ducts



P9A: Intake plenum with 90° ducts



Availability	
VXI 123÷614	✓



P3LM/P3PM/P3LA/P3PA

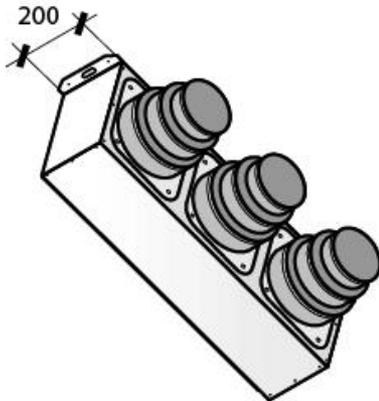
Supply and intake plenum with round ducts

Supply plenum with round ducts

- P3LM
- P3PM (for GP versions)

Intake plenum with round ducts

- P3LA
- P3PA (for GP versions)



Availability	
DWX 183÷364	✓



Steel section with spigots (3 ϕ , 5 ϕ or 6 ϕ) with variable diameter made of plastic material – Internal insulation

P9LM/P9PM/P9LA/P9PA

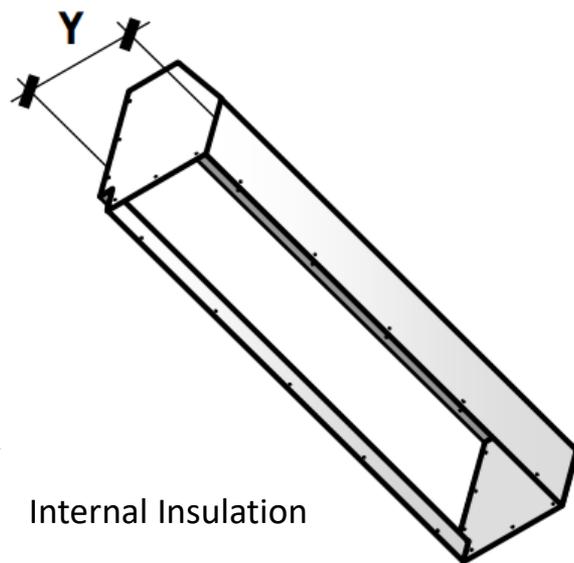
Supply and Intake plenum with 90° ducts

Supply plenum with 90° ducts

- P9LM
- P9PM (for GP versions)

Intake plenum with 90° ducts

- P9LA
- P9PA (for GP versions)



Y: 325
Y: 365 (GP)

Availability	
DWX 183÷364	✓



SSM/SPM/SSR/SPR

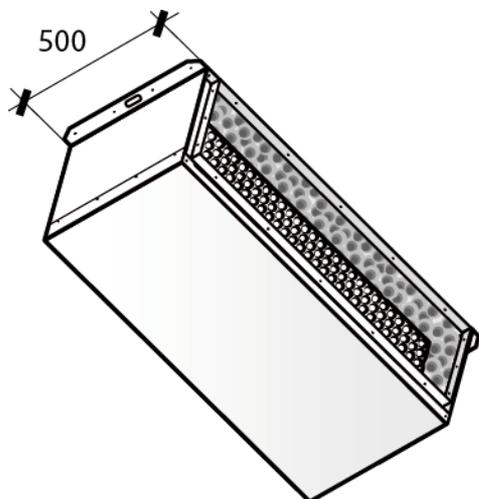
Air intake and supply labyrinth silencer section

Supply labyrinth section

- SSM
- SPM (for GP versions)

Intake labyrinth section

- SPR
- SSR (for GP versions)



Availability

DWX 183÷364

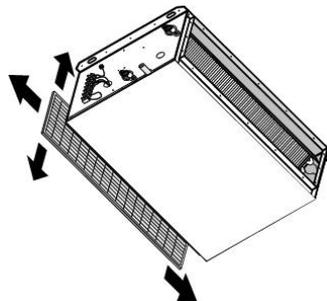


AFL1/AFP1/AFL2/AFP2/AFL3/AFP3

Air filter and section filter

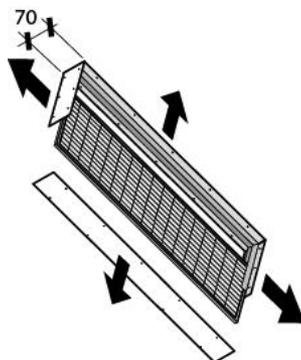
Flat air filter

- AFL1
- AFP1 (for GP versions)



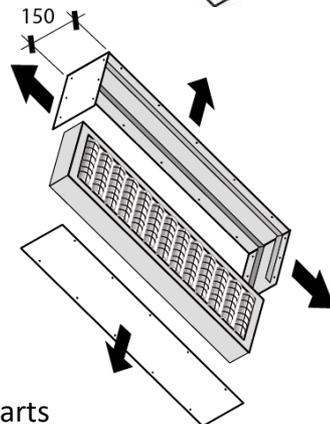
Section with flat filter

- AFL2
- AFP2 (for GP versions)



Section with undulated filter

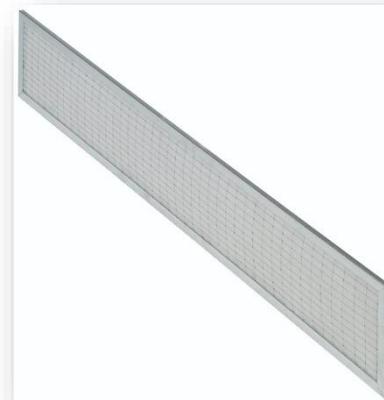
- AFL3
- AFP3 (for GP versions)



False frame in 4 parts

Availability

DWX 183÷364



GMS/GAF

Air intake and supply grill

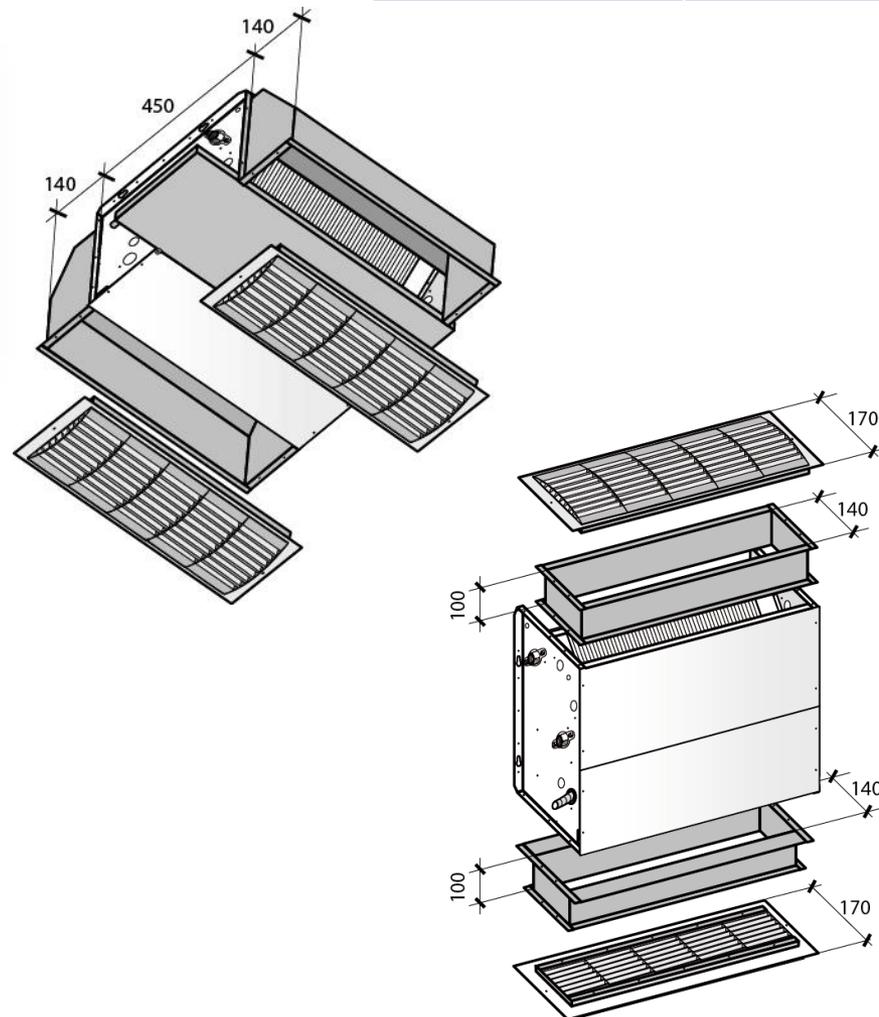
GMS: Air supply grill



GAF: Air intake grill



Availability	
VXI 123÷614	✓

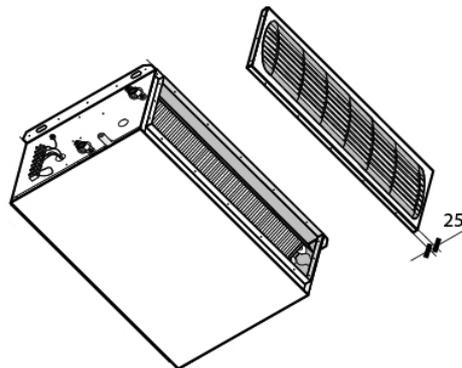


PLM/PPM/PLR/PPR

Cover panel with air intake and supply grill

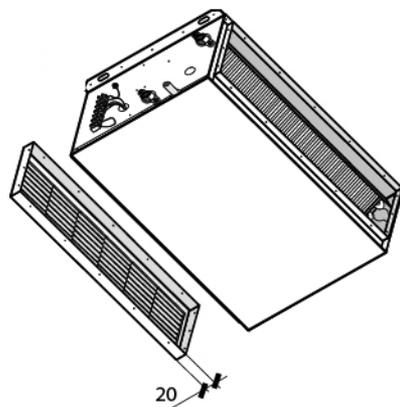
Cover panel with air supply grill

- PLM
- PPM (for GP versions)



Cover panel with air intake grill

- PLR
- PPR (for GP versions)



Availability

DWX 183÷364



TMB3/TMB4**Minimum hot water temperature thermostat**

Availability	
VXM 123÷614	✓
VXI 123÷614	✓
DWX 183÷364	✓
TXW 132÷284	✓

TMB3 → T. SET: 32°C

TMB4 → T. SET: 42°C

V22/V22M/V42/V42M

2-Way on/off and modulating valves

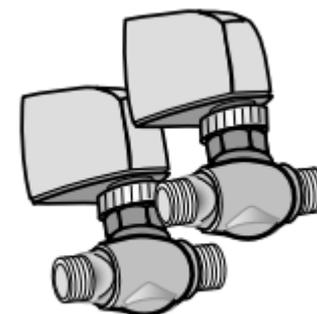
Availability	
VXM 123÷614	✓
VXI 123÷614	✓
DWX 183÷364	✓
TXW 132÷284	✓

V22/V22M

2-Way on/off and modulating valves for 2 Pipe system

V42/V42M

2-Way on/off and modulating valves for 4 Pipe system



V26/V26M/V46/V46M

2-Way on/off and modulating valves with shut-off (ball)

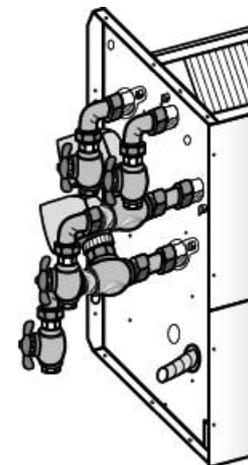
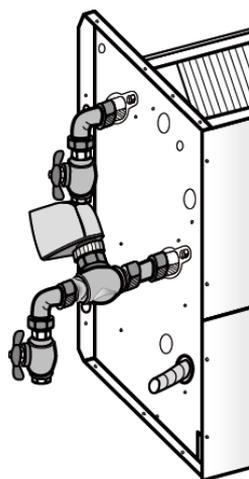
Availability	
VXM 123÷614	✓
VXI 123÷614	✓

V26/V26M

2-Way on/off and modulating valves with 2 shut-off (ball) for 2 Pipe system

V46/V46M

2-Way on/off and modulating valves with 4 shut-off (ball) for 4 Pipe system



V23/V23M/V43/V43M

3-Way on/off and modulating valves

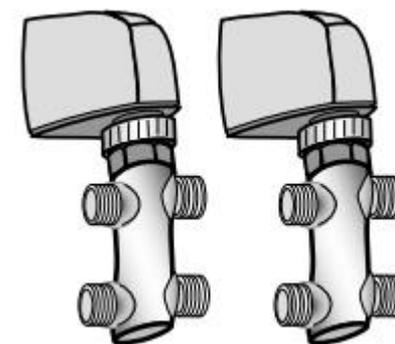
Availability	
VXM 123÷614	✓
VXI 123÷614	✓
DWX 183÷364	✓
TXW 132÷284	✓

V23/V23M

3-Way on/off and modulating valve for 2 Pipe system

V43/V43M

3-Way on/off and modulating valves for 4 Pipe system



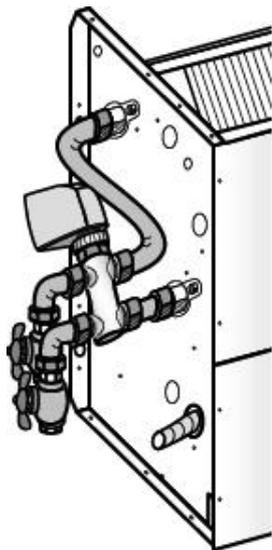
V25/V25M/V45/V45M

3-Way on/off and modulating valves with shut-off (ball)

Availability	
VXM 123÷614	✓
VXI 123÷614	✓

V25/V25M

3-Way on/off and modulating valves with 2 shut-off (ball) for 2 Pipe system



V45/V45M

3-Way on/off and modulating valves with 4 shut-off (ball) for 4 Pipe system

