



REVERSO 361°

USA-Canada

*Design Fan coil*

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- Reverso FS *Pag.4*
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# Reverso FS

Floor standing Installation

4 sizes

Capacity from 1.1 to 4.3 kW

Heating - Cooling - Dehumidification - purification



# Reverso HW

High wall Installation

3 sizes

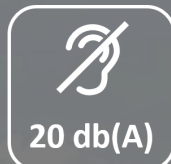
Capacity from 1.6 to 3.8kW

Heating - Cooling - Dehumidification - purification



# REVERSO FS

## Floor standing fan coil

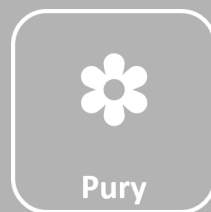
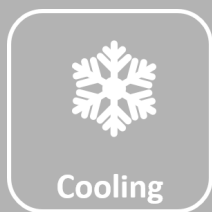
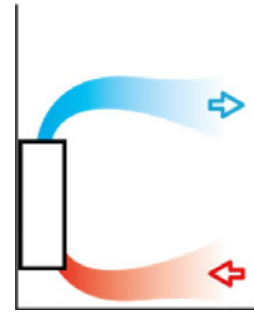


Reverso FS is the hydronic fan coil for low wall installation. The features that distinguish it from products of the same category are: • Real residential design , Super thin , only 12 cm thick • Minimum silence below the audible threshold, 20 dB (A) • DC Inverter technology • Low power consumption, only 4 Watt • Modern design.

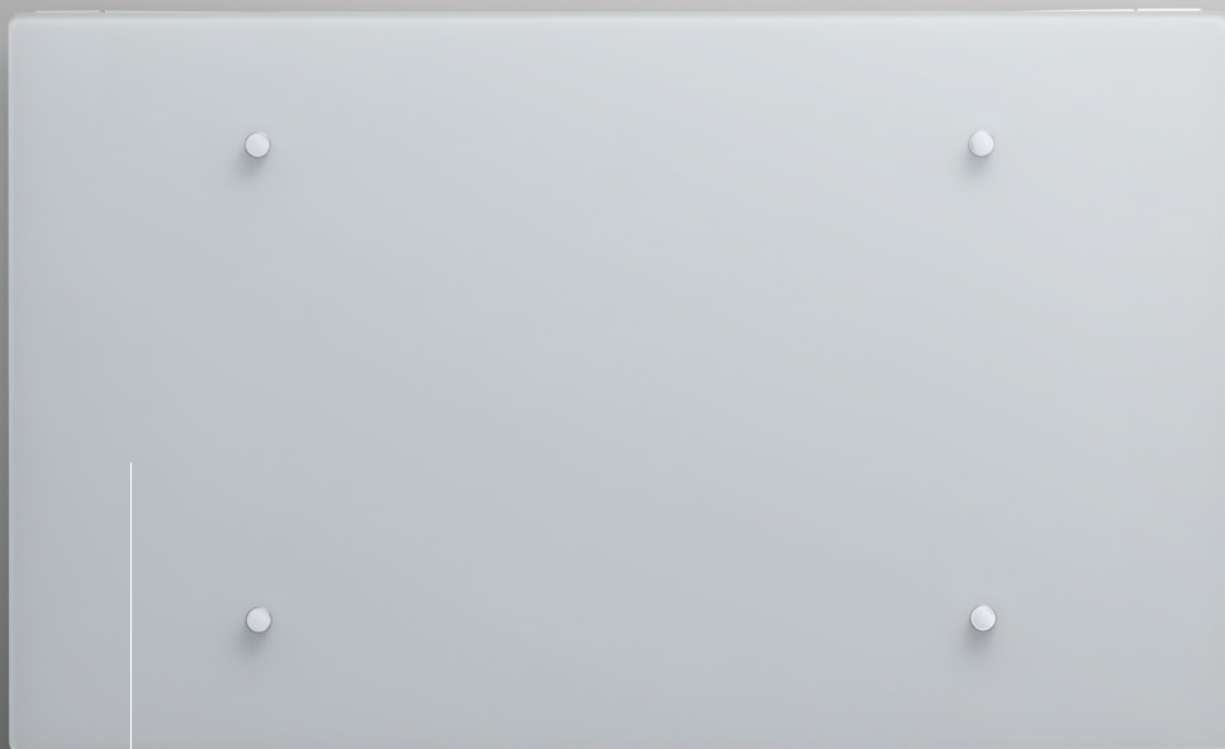
Double Crystal front and back on request • Front panel in tempered crystal • Pleated stainless steel filters with unlimited duration • Tangential fan in aluminium for greater efficiency • Controls on the machine or on the wall • Hydraulic or electric connections on the right and left on the same product • WiFi connection for Smart home automation .

# Why REVERSO FS ?

Reverso FS is the hydronic fan coil with slim and modern design to have a perfect match with home furniture , it is as silent as radiant system and efficient thanks to DC Inverter motor ,it is used as primary system for the heating , cooling , dehumidification and air purifying . One product to climatize the house / office all year along with the maximum comfort .FS series is the perfect solution to replace old radiator with water pipes 12 mm diameter. It's a good match with air -water heating pump because optimize SCOP .



# REVERSO FS



**Frontal panel**

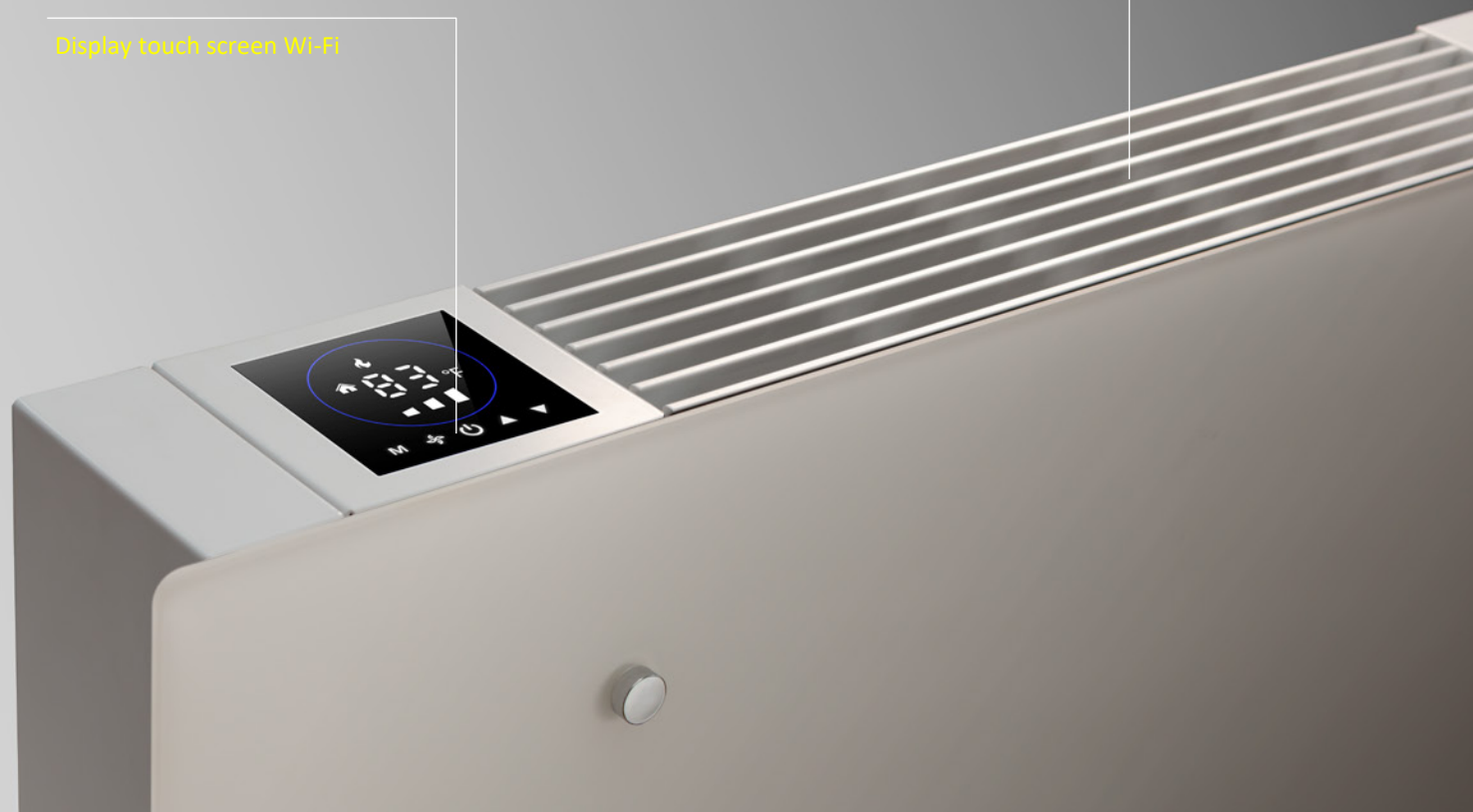
Tempered crystal

**Top grill**

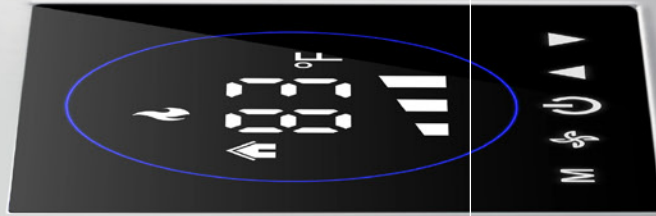
Extruded aluminium painted

**Command on board**

Display touch screen Wi-Fi



# REVERSO FS



## DC Inverter motor

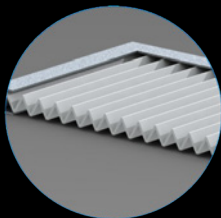
Aluminium cross blade  
Low consumption DC inverter motor

## Strong body

Body in galvanized + painted steel  
Steel thickness 0.8 mm

## Microwave Stainless steel filter

Microwave filter in stainless steel  
Double surface to traditional filters  
Reduced load losses and fouling factor



# Technical Data

## Performance 2-4 pipes

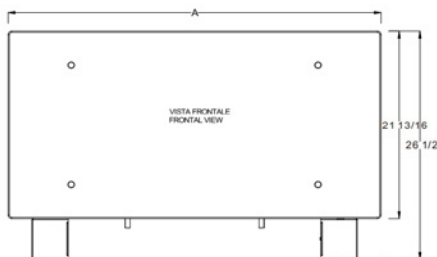
Model			FS 200	FS 400	FS 600	FS 800	
(1)	Cooling capacity	45°F -54 °F	BTU/h (kW)	3033 (0,88 )	6176 (1,81)	9213 (2,7)	11533 (3,38)
(1)	Sensible capacity	45°F -54 °F	BTU/h (kW)	2354 (0,69)	4606 (1,35)	6824 (2,00)	9213 (2,70)
(1)	Water flow rate MAX	45°F -54 °F/122 °F	GPM (l/h)	0,665 (151)	1,369 (311)	2,039 (463)	2,554 (580)
(1)	Water drop fow	45°F -54 °F/122 °F	Ft Hd (kPa)	4,38 (13,1)	2,74 (8,2)	6,39 (19)	6,26 (18,7)
(2)	Heating capacity MAX	122 °F	BTU/h (kW)	3753 (1,1)	8189 (2,4)	10919 (3,2)	14433 (4,23)
(2)	Static heating capacity	122 °F	BTU/h (kW)	751 (0,22)	853 (0,25)	1024 (0,3)	1297 (0,38)
<b>Hydraulic data</b>							
Exchanger water content			gal (liter)	0,087 (0,33)	0,155 (0,59)	0,224 (0,85)	0,29 (1,11)
Hydraulic connection			NPT thread	1/2 NPT			3/4 NPT
<b>Aeraulic data</b>							
Supermax air flow ( 2000 rpm )			CFM (m3/h)	148 (250)	230 (390)	300 (510)	364 (620)
Max air flow			CFM (m3/h)	106 (180)	185 (315)	265 (450)	318 (540)
Med air flow			CFM (m3/h)	71 (120)	135 (230)	206 (350)	265 (450)
Min air flow			CFM (m3/h)	47 (80)	91 (155)	141 (240)	182 (310)
Static air flow ( fan off )			CFM (m3/h)	5,8 (10)	10,6 (18)	14,7 (25)	18,8 (32)
(***)	SPL noise level (min-max)		db(A)	20,5-34,3	21,6-35,2	23,5-35,2	21,7-36,3
(***)	LWA sound power level		db(A)	27,5-51,3	38,6-52,2	40,5-52,4	38,7-53,3
<b>Electric data</b>							
Alimentation			V-Hz-Ph	115 V - 60 Hz - 1Ph			
Power supply			watt	3-12	4-13	5-14	8-17
<b>Dimension</b>							
Lenght			inch (mm)	23 13/16 (681)	34 3/8 (873)	41 15/16 (1065)	49 1/2 (1257)
Height			inch (mm)	21 3/4 (553)			
Deep			inch (mm)	4 13/16 (120)			
<b>Features</b>							
Motor type and driver				DC Inverter			
Fan				Alluminum cross fan			
Top grill				Extruded alluminium painted			
Inlet filter				Stainless steel microwave supplied as standard			
Frontal panel				tempered crystal			
Water probe				supplied as standard			
Machine structure				Galvanized and painted steel			
<b>Optional Accessories</b>							
Toouch screen Wi-Fi Thermostat				Obbligatory ( ON-OFF or 0-10 VDC )			
3 ways by pass valves kit (2-4 pipes )				Optional			
2 ways valves kit ( 2 pipes )				Optional			
2 ways 0-10 VDC modulating valves kit ( 2 pipes )				Optional			
Antivirus - anti bacteria filter				Optional			
Feet				Optional			
Back pannel in Crystal				Optional			
<b>Packing data</b>							
Single box lenght			inch (mm)	29,09 (739)	36,65 (931)	44,21 (1123)	51,77 (1315)
Single box height			inch (mm)	17,87 (454)			
Deep box dimension			inch (mm)	7,20 (183)			
Gross weight			lbs (Kg)	41,88 (19)	48,50 (22)	55,11 (25)	61,72 (28)
Net weight			lbs (Kg)	39,68 (18)	46,29 (21)	52,91 (24)	59,52 (27)

(1) Water temperature 45-54 °F (7/12 °C) , room ambient 80,6°F d.b and 66,2 w.b.( 27 °C b.s. e 19 °C b.u.) EN 1397 EUROVENT AHRI

(2) Water temperature 122 °F (50 °C) ambient temperature 68°F d.b and 15 w.b ( 20 °C b.s. e 15°C b.u.) EN 1397 EUROVENT AHRI

(\*\*\*) SPL tested at 1m distance , conform to ISO7779

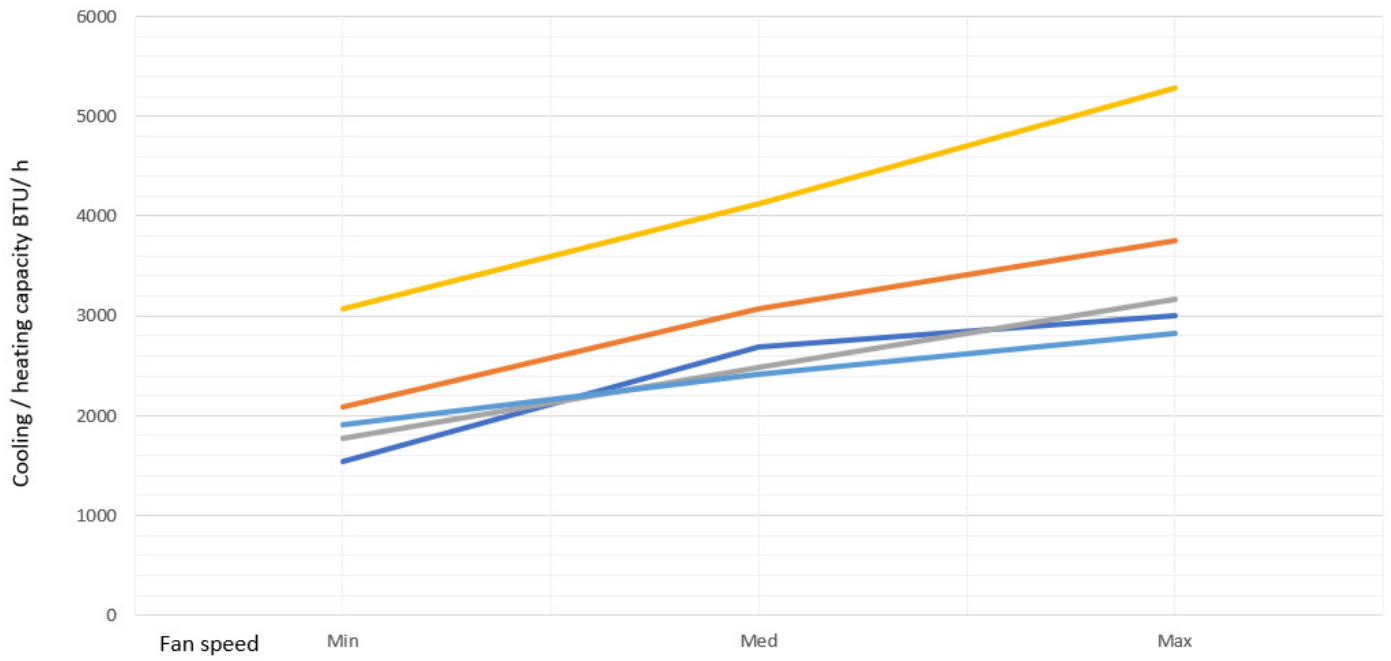
### Machine dimensions



	200	400	600	800
A(inch)	28 3/8	35 15/16	43 1/2	51 1/16
Deep (inch)	4 13/16			
Weight (ibs)	35,75	44,79	53,4	62,22

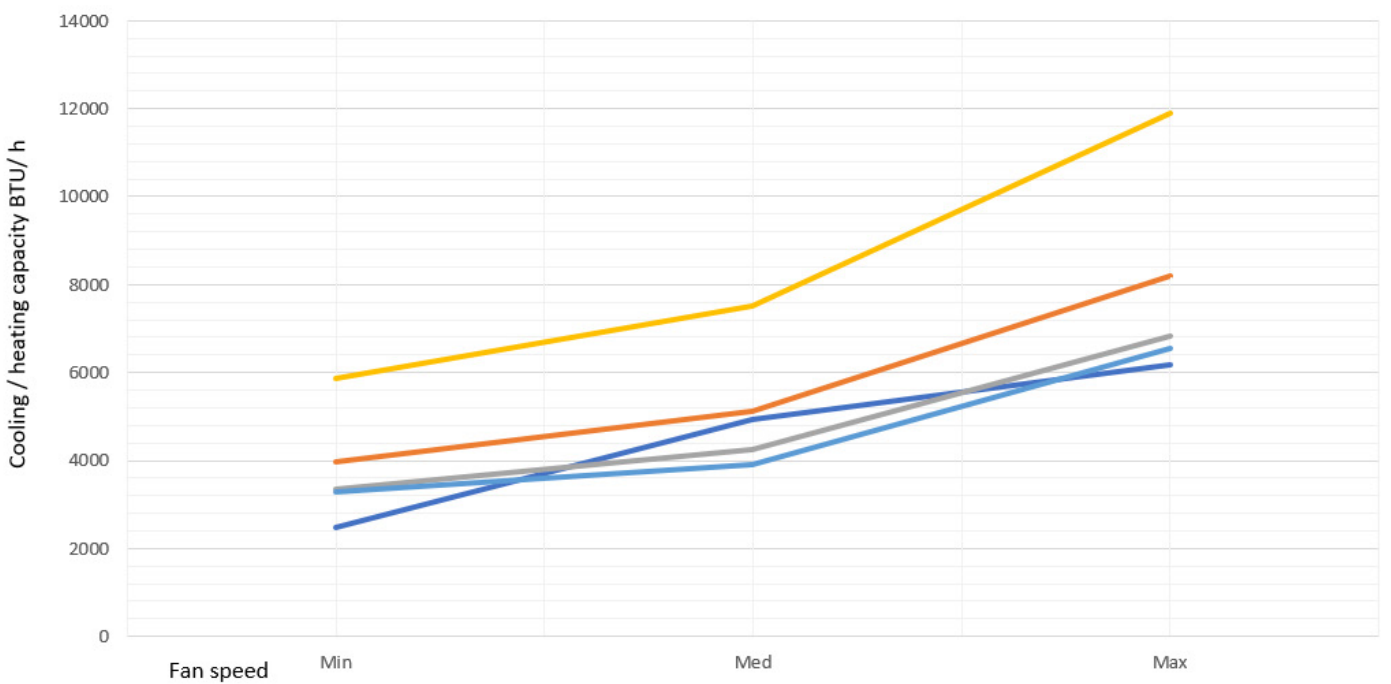


# Reverso FS 200



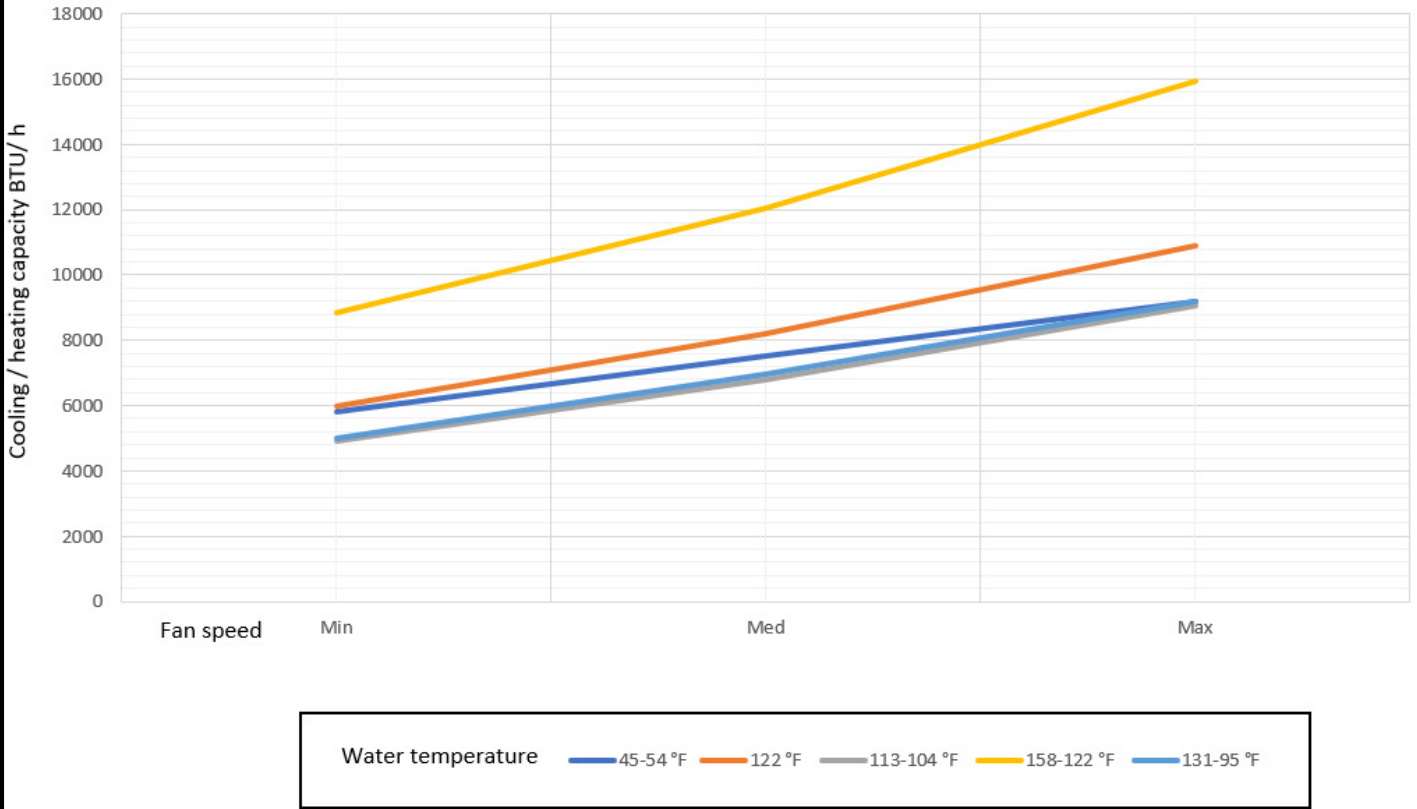
Water temperature    45-54 °F    122 °F    113-104 °F    158-122 °F    131-95 °F

# Reverso FS 400

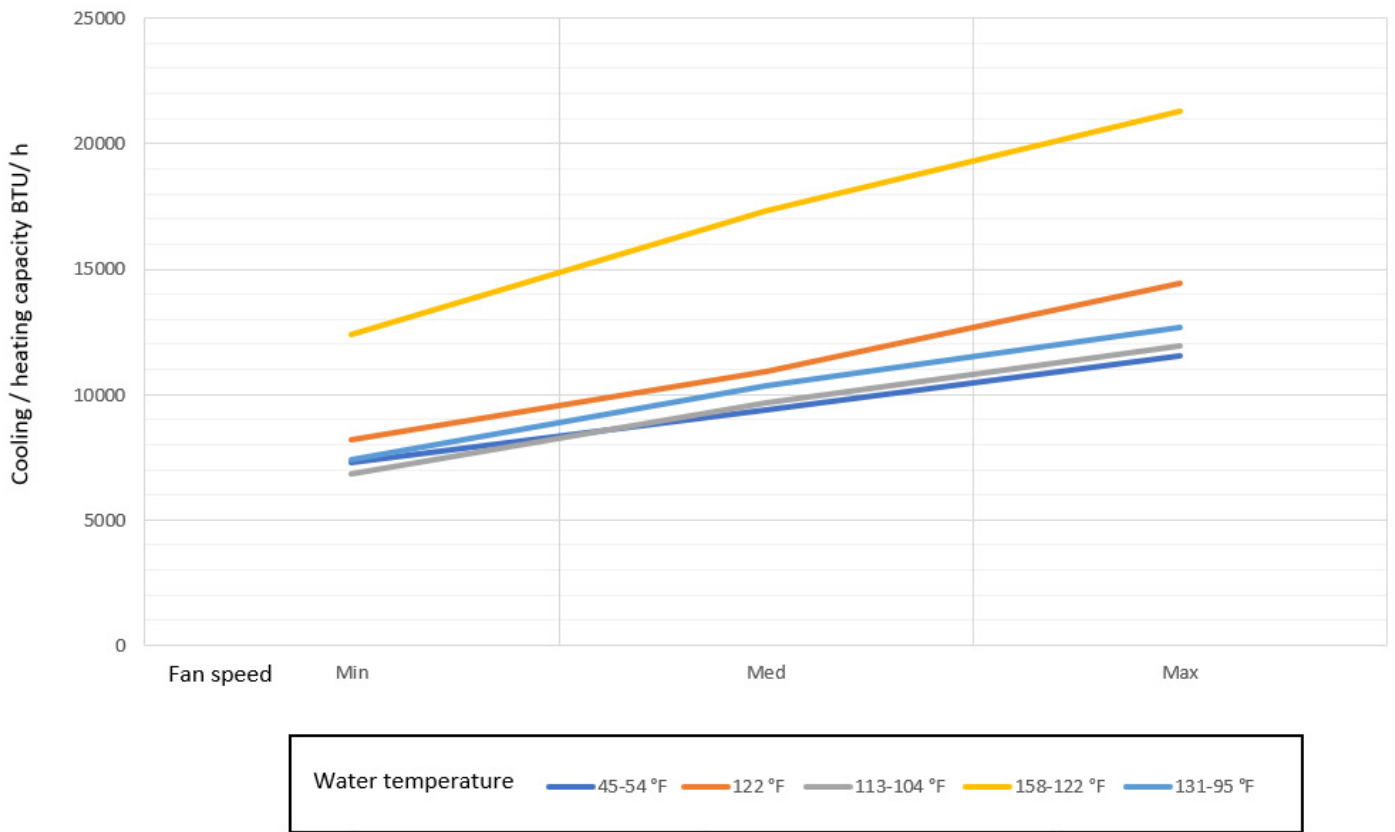


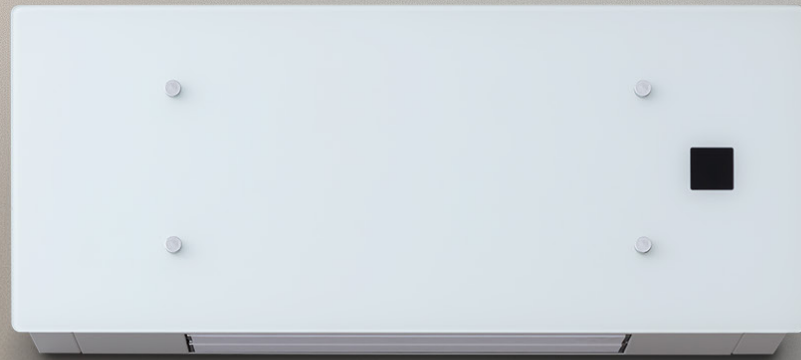
Water temperature    45-54 °F    122 °F    113-104 °F    158-122 °F    131-95 °F

# Reverso FS 600



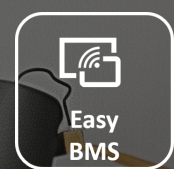
# Reverso FS 800





# REVERSO HW

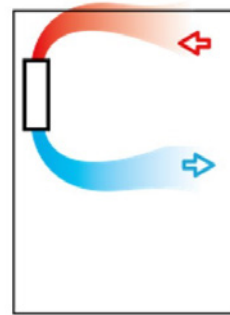
High wall fan coil



Reverso HW is the hydronic fan coil for high wall installation. The features that distinguish it from products of the same category are: • Super thin , only 12 cm thick • Minimum silence below the audible threshold, 20 dB (A) • DC Inverter technology • Low power consumption, only 4 Watt • Modern design. Front panel in tempered crystal • Pleated stainless steel filters with unlimited duration • Tangential fan in aluminium for greater efficiency • Controls with remote control or optional on the wall • Hydraulic connections on the left side .

# Why REVERSO HW ?

Reverso HW is the hydronic fan coil high wall installation , with slim and modern design to have a perfect match with home furniture , it's a perfect match with radiant system for cooling it's efficient thanks to DC Inverter motor , is possible to use like primary system for the heating , cooling , dehumidification and air purifying . One product to climatize the house / office all the year along the maximum comfort .HW line is studied to use for high wall installation optimizing its position.



Cooling



Heating



Dheumy



Pury



Silent

# REVERSO HW



## Frontal panel

Tempered crystal  
Back silk printed

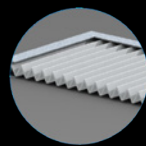
## LCD display

2 digit display  
Remote control receiver  
Remote control as series

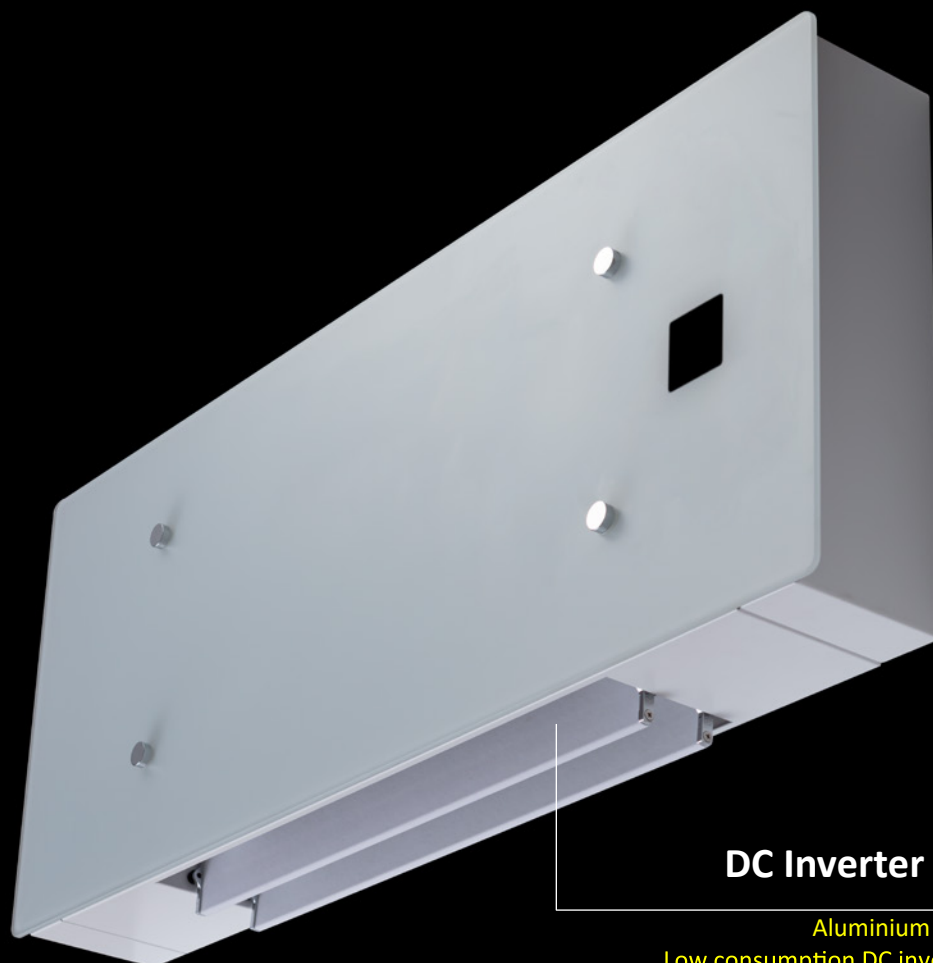
12 cm thick

## Microwave Stainless steel filter

Microwave filter in stainless steel  
Double surface to traditional filters  
Reduced load losses  
and fouling factor



# REVERSO HW



## DC Inverter motor

Aluminium cross blade  
Low consumption DC inverter motor

## Bottom flap

Extruded aluminium painted



## Strong body

Body in galvanized + painted steel  
Steel thickness 0.8 mm

# Technical Data

## Performance 2 pipes

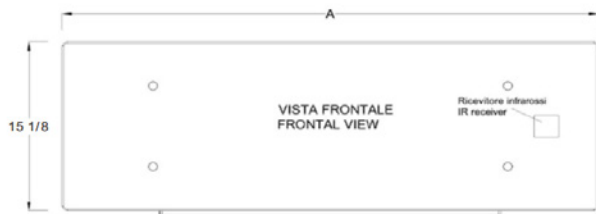
Model				HW 400	HW 600	HW 800
(1)	Cooling capacity	45°F -54 °F	BTU/h (kW)	4095 (1,2)	5801 (1,7)	8360 (2,45)
(1)	Sensible capacity	45°F -54 °F	BTU/h (kW)	3037 (0,85)	5050 (1,45)	7677 (2,15)
(1)	Water flow rate MAX	45°F -54 °F/122 °F	GPM (l/h)	0,907 (206)	1,286 (292)	1,849 (420)
(1)	Water drop fow	45°F -54 °F/122 °F	Ft Hd (kPa)	2,3 (7)	0,8 (2,5)	3,3 (10)
(2)	Heating capacity MAX	122 °F	BTU/h (kW)	5732 (1,68)	8360 (2,45)	11260 (3,3)
<b>Hydraulic data</b>						
	Exchanger water content		gal (liter)	0,079 (0,3)	0,11 (0,43)	0,147 (0,56)
	Hydraulic connection		NPT thread	1/2 NPT		3/4 NPT
<b>Aeraulic data</b>						
	Supermax air flow ( 2000 rpm )		CFM (m3/h)	218 (370)	290 (492)	348 (592)
	Max air flow		CFM (m3/h)	185 (315)	265 (450)	318 (540)
	Med air flow		CFM (m3/h)	135 (230)	206 (350)	265 (430)
	Min air flow		CFM (m3/h)	91 (155)	141 (240)	182 (310)
(***)	SPL noise level (min-max)		db(A)	23-37,1	23,4-38,3	25-39,1
(***)	LWA sound power level		db(A)	40-54,1	40,4-55,3	42-56,1
<b>Electric data</b>						
	Alimentation		V-Hz-Ph	115 V - 60 Hz - 1Ph		
	Power supply ( MIN-MAX ) / potenza elettrica ( min-max)		watt	4-11	5-14	8-17
<b>Dimension / Dimensioni</b>						
	Lenght		inch (mm)	34 3/8 (873)	41 15/16 (1065)	49 1/2 (1257)
	Height		inch (mm)	15 1/16 (383)		
	Deep		inch (mm)	4 13/16 (120)		
<b>Features</b>						
	Motor type and driver			DC Inverter		
	Fan			Alluminum cross fan		
	Bottom flaps			Extruded alluminium painted		
	Inlet filter			Stainless steel microwave		
	Frontal panel			Tempered crystal		
	Water probe			supplied as standard		
	Machine structure			Galvanized and painted steel		
<b>Optional Accessories</b>						
	Toouch screen Wi-Fi Thermostat - Termostato wifi Touch			As optional ( ON-OFF or 0-10 VDC )		
	3 ways by pass valves kit (2-4 pipes )			Optional		
	2 ways valves kit ( 2 pipes )			Optional		
	Antivirus - anti bacteria filter			Optional		
<b>Packing data</b>						
	Single box lenght		V-Hz-Ph	36,65 (931)	44,21 (1123)	51,77 (1315)
	Single box height		V-Hz-Ph	17,874 (454)		
	Deep box dimension		V-Hz-Ph	7,20 (183)		
	Gross weight		lbs (Kg)	37,47 (17)	39,68 (18)	46,29 (21)
	Net weight		lbs (Kg)	35,27 (16)	37,47 (17)	44,1 (20)

(1) Water temperature 45-54 °F (7/12 °C) , room ambient 80,6°F d.b and 66,2 w.b.( 27 °C b.s. e 19 °C b.u.) EN 1397 EUROVENT AHRI

(2) Water temperature 122 °F (50 °C) ambient temperature 68°F d.b and 15 w.b ( 20 °C b.s. e 15°C b.u.) EN 1397 EUROVENT AHRI

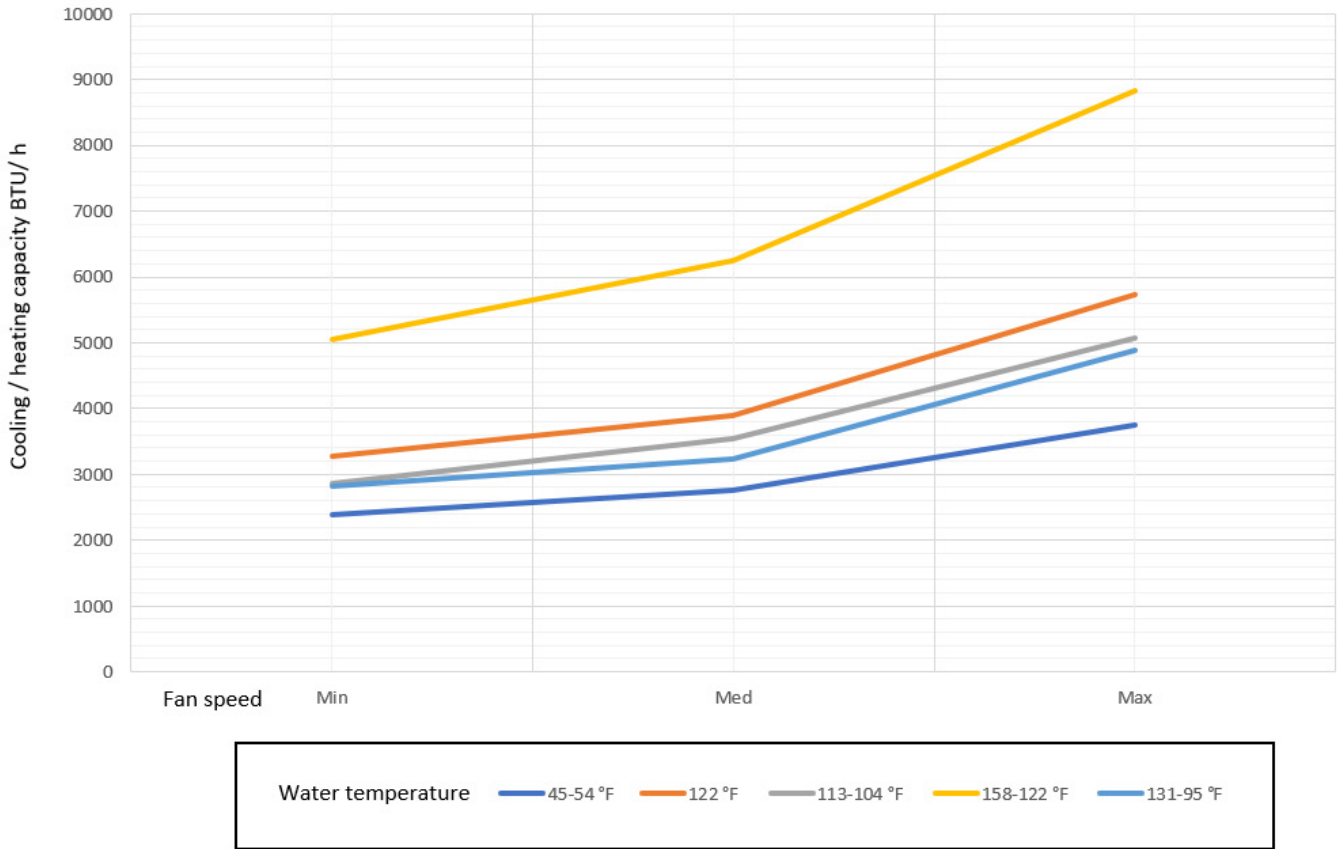
(\*\*\*) SPL tested at 1m distance , conform to ISO7779

## Machine dimensions

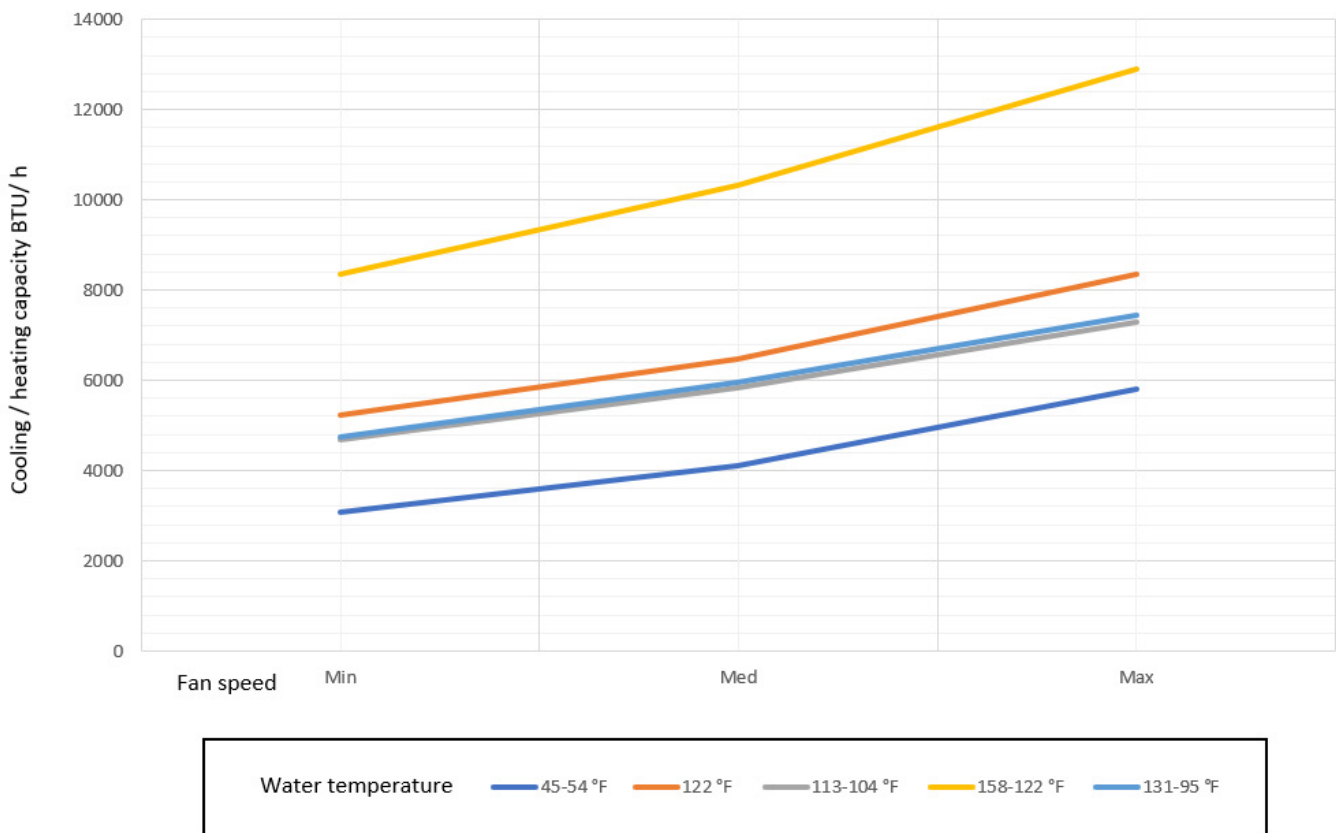


	400	600	800
A(inch)	35 15/16	43 1/2	51 5/8
Deep (inch)	4 13/16		
Weight (lbs)	35,52	42,59	49,87

## Reverso HW 400

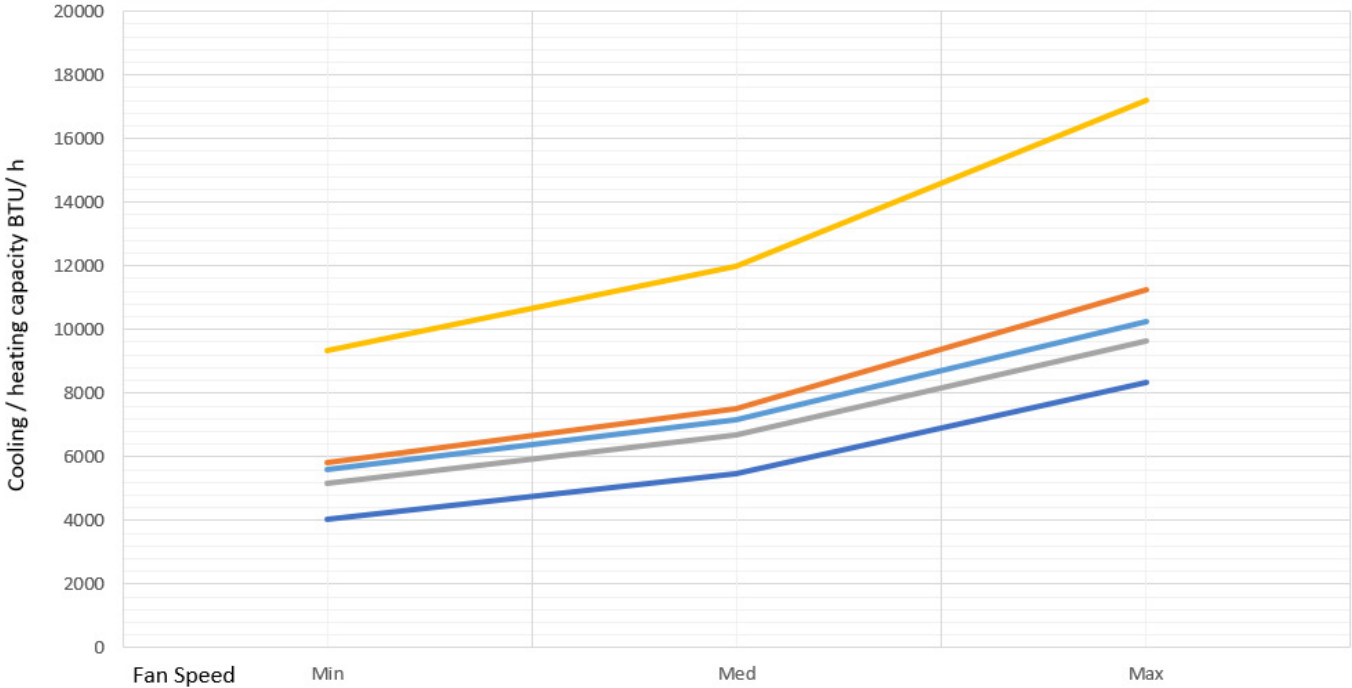


## Reverso HW 600





# Reverso HW 800



Water temperature 45-54 °F 122 °F 113-104 °F 158-122 °F 131-95 °F



# Accessories

- *Controls*
- *Remote control*
- *Valves kit*
- *Feet*
- *Back panel*
- *Anti virus filter*

# Controls

## 2 and 4 pipes system

### FS Line required

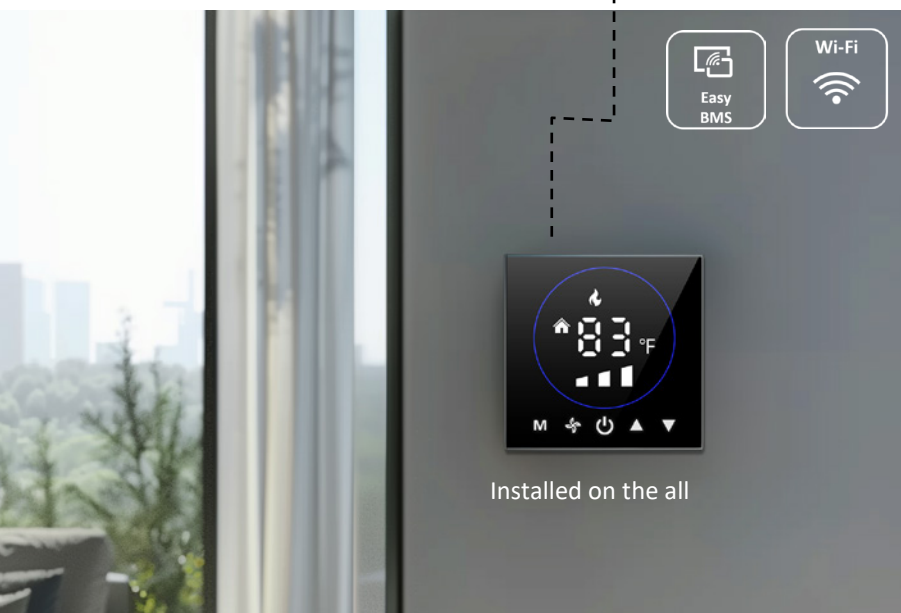
#### *HW as optional*

Only one control , for both necessities .

The plastic cover must be used when the thermostat it's not installed on board



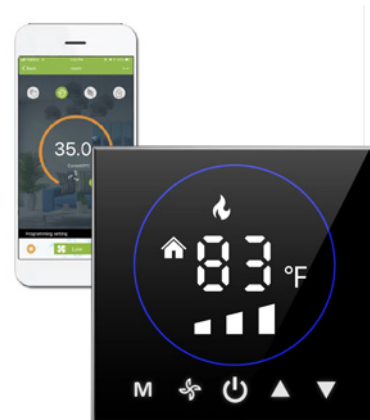
FS line is sold with or without control and the installer can decide if manage the machine stand alone or master slave net . The control **CTOP WF** could be installed on board or on the wall and is available for ON-OFF or 0-10 VDC modulating valves .



Installed on the all

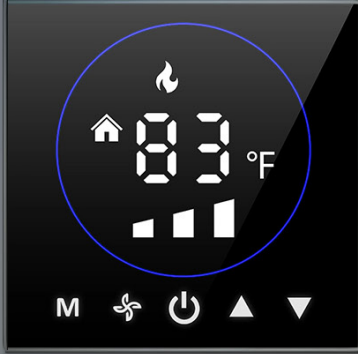
## HW Line

The same control can be used also for HW line when is installed on the wall . When we use this control we lost the remote control function .



### CTOP-WF-24 VAC ON-OFF

- Wi-Fi connection
- 24 Vac Thermostat 2& 4 pipes
- 3 fan speed control and ON-OFF valve control
- F° and C° display temperature
- Humidity sensor
- Weekly program
- Record energy consumption



### CTOP-WF-24 VAC 0-10 VDC

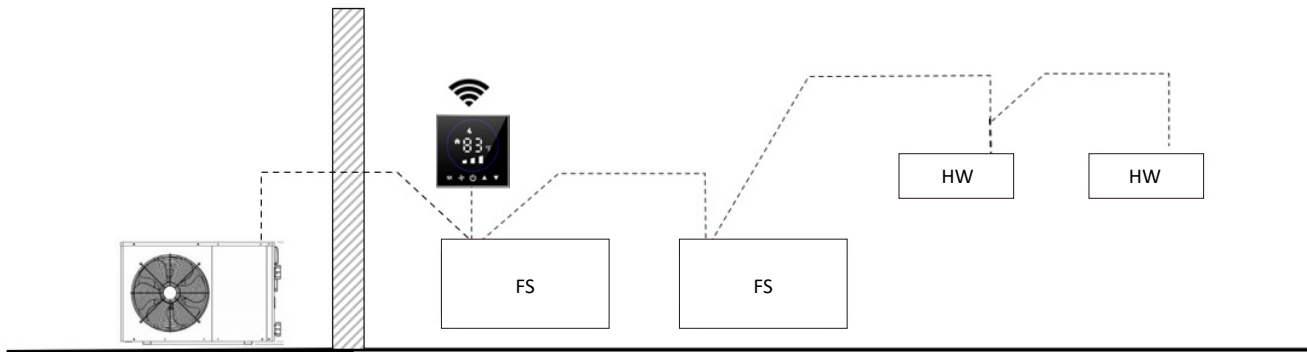
#### Modulating

- Wi-Fi connection
- 24 Vac Thermostat 2& 4 pipes
- 3 fan speed control and 0-10 V valve control
- F° and C° display temperature
- Humidity sensor
- Weekly program
- Record energy consumption



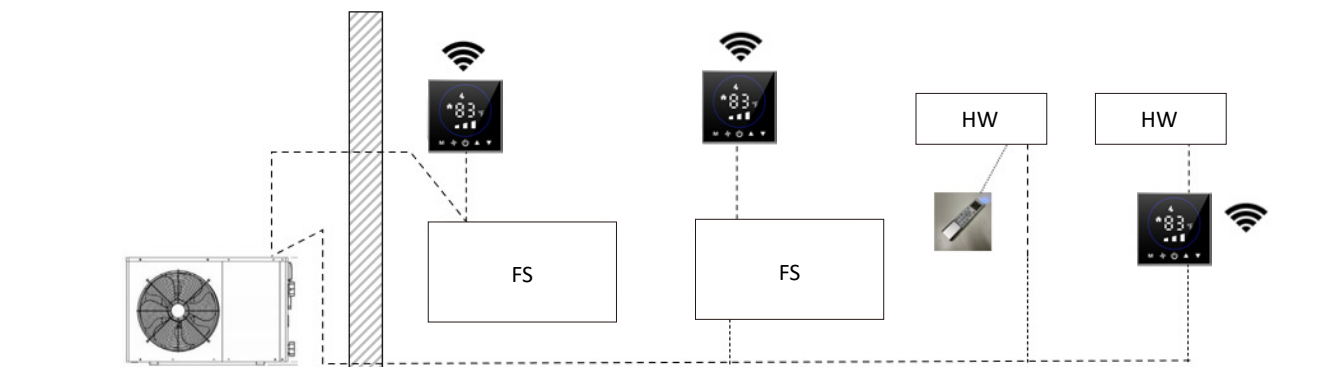
## Master slave control

With only one control is possible to manage a machines net over 200 fan coils. This is economic solution because it's possible to avoid to install valves



## Stand Alone control

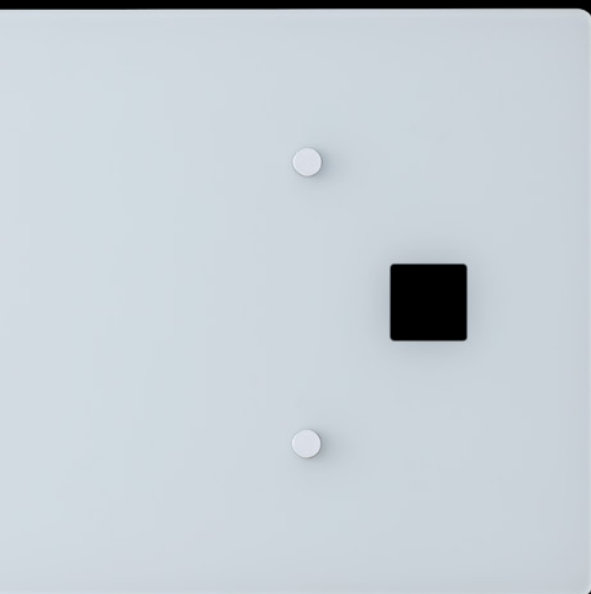
Each single machine is managed from one single control , valves are obligatory .



# Controls

HW Line supplied as standard ( no Wi-Fi )

LCD Display



It's supplied as standard on all HW series.

The remote control manage all machine functions , but no Wi-Fi function is available with the remote control .

Soft back light display for comfortable night vision

Frontal light for night help

F° and C° temperature display are available

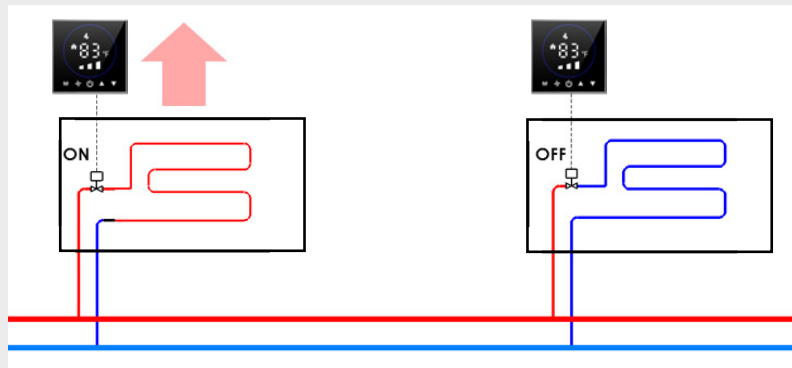
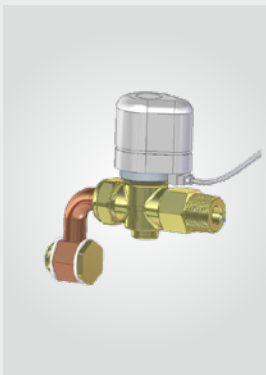
Timer and clock wise

Note : If the Wi - Fi connection needs , it's necessary to install wall pad control CTOP WF.

# Valves Kits

All valves kit are supplied with connection copper pipes and NPT tread

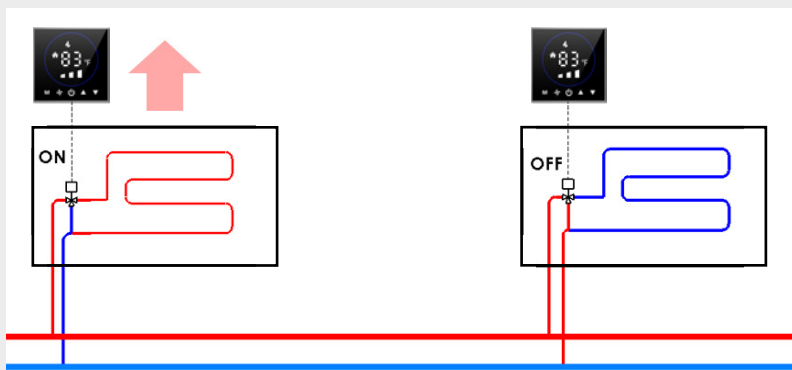
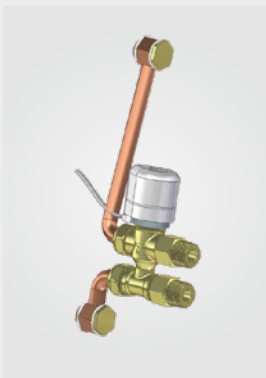
## 2 ports valve / 2 pipes - FS and HW series



Available for all the range FS—HW ; for 2 port valves it's suggested the by pass in the water collector and modulating water pump . With this valve use control

**CTOPWF24VAC ON-OFF**

## 3 ports valve / 2 pipes - FS and HW series



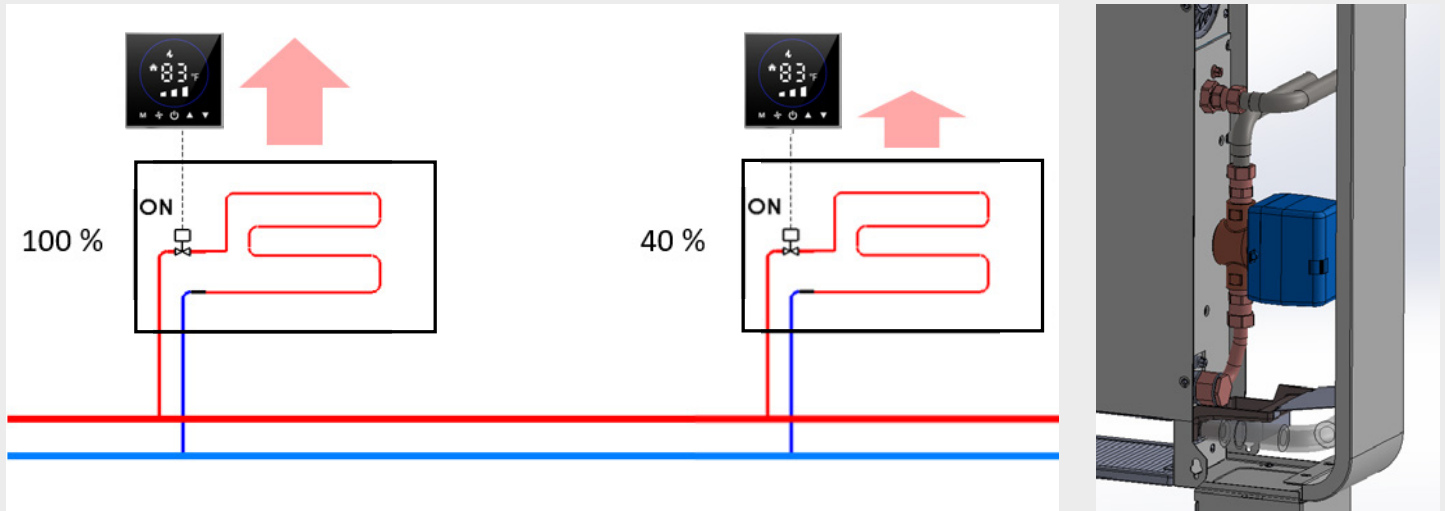
Available for all the range FS—HW. 3 port valve It's suggested for 90 % of the installations with on-off or modulating water pump . With this valve use control

**CTOPWF24VAC ON-OFF**

# Valves Kits

All valves kit are supplied with connection copper pipes and NPT tread

## 2 ports valve 0-10 V Modulating / 2 pipes - *FS series only*

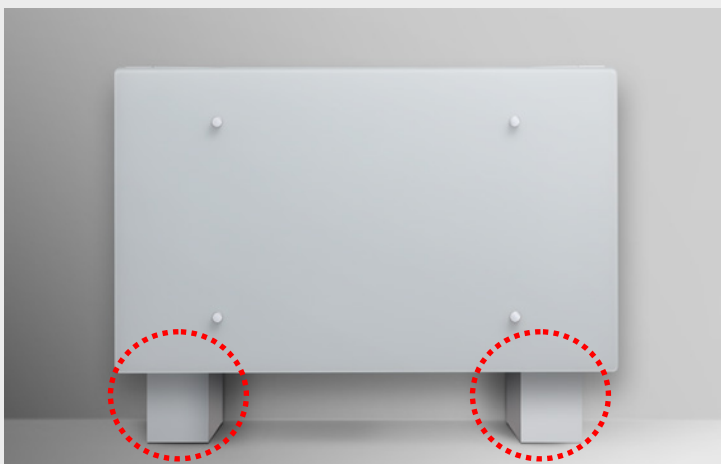


Available for FS range only .

it's suggested for 2 port valves the by pass in the water collector and modulating water pump . With this valve use control [CTOPWF24VAC 0-10 VDC Modulating .](#)

## Feet

### FS supplied as optional



For FS , feet are supplied as optional not installed . This accessory is useful when it is not possible to install the machine on the wall , for example in front of the window shop , or to cover the pipes and electric connection coming from the floor or floating floor .

# Back panel

FS - supplied as optional



The back panel is made in tempered like the frontal panel ;  
this accessory is used when the fan coils is installed in front of  
glass or window shop to have perfect look .



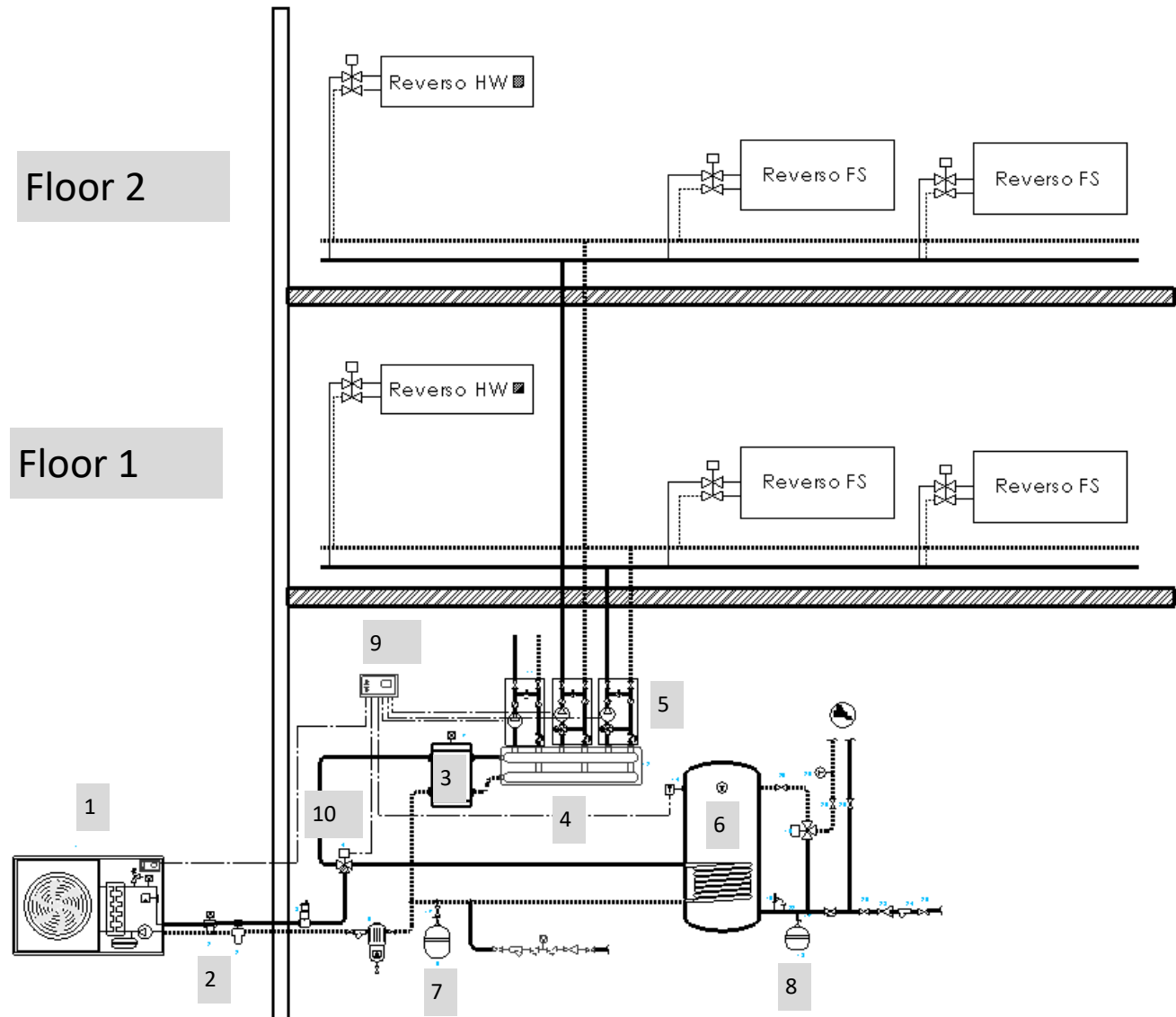
# 6 REASONS

*to choose Reverso*

1. The new House well insulated need lower capacity to cool and heat the house and the rooms
2. The HP market is growing up and Reverso is the best indoor terminal to improve HP's SCOP
3. The comfort is also low noise and low air flow speed
4. The easy installation reduce the total cost
5. Final user need good product but with good design
6. Reverso is the slimmest fan coils in the world , with DC inverter technology , low consumption , Design and low noise for real good comfort experience .

# Typical installation scheme single house

Heating / Cooling / Purification / Sanitary water with air water HP + Reverso



1. Monobloc air—water heating pump
2. Valve anti freeze ( if system without glycol )
3. Puffer for technical water ( 10 liters x 1 Kw )
4. Water collector to balance water pump pressure
5. Water pump
6. Sanitary water tank
7. Expansion vase
8. Expansion vase
9. Control
10. 3 way valve ( to switch sanitary water or system to cool / heating )

# REVERSO 361°

*Design Fan coil*

## **Zymbo Italia S.r.l.**

Via Ponte Musia 23-25

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