

Design Fan coil

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FS Series

Floor standing Installation
4 sizes
Capacity from 1.1 to 4.3 kW
Heating - Cooling - Dehumidification - purification



HW Series

High wall Installation
3 sizes
Capacity from 1.6 to 3.8kW
Heating - Cooling - Dehumidification - purification

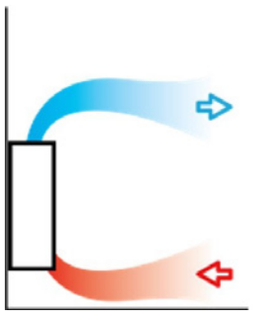


standing fan coil



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 .

Solarizon 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 .





Cooling Heating Dheumy Pury Silent


Frontal panel
Tempered crystal
Top grill
Extruded aluminium painted
Command on board
Display touch screen Wi-Fi

DC Inverter motor

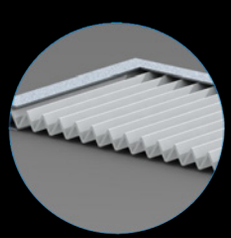
Aluminium cross blade
Low consumption DC inverter motor

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

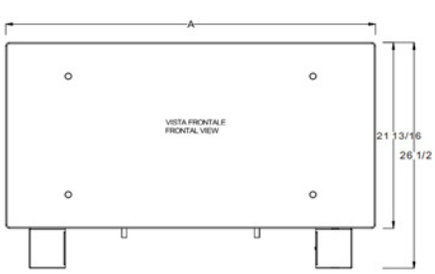
	Model			*FS 200*	*FS 400*	*FS 600*	*FS 800*
(1)	*Cooling capacity*	*45°F -54 °F*	*BTU/h (kW)*	*3033 (0,88)*	*6176 (1,81)*	*9213 (2,7)*	*11533 (3,38)*
(1)	*Sensible capacity*	*45°F -54 °F*	*BTU/h (kW)*	*2354 (0,69)*	*4606 (1,35)*	*6824 (2.00)*	*9213 (2,70)*
(1)	*Water flow rate MAX*	*45°F -54 °F/122 °F*	*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)*
	Hydraulic data						
	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*
	Aeraulic data						
	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*
	Electric data						
	Alimentation		*V-Hz-Ph*	*115 V - 60 Hz - 1Ph*			
	Power supply		*watt*	*3-12*	*4-13*	*5-14*	*8-17*
	Dimension						
	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)*			
	Features						
	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*			
	Optional Accessories						
	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*			
	Packing data						
	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

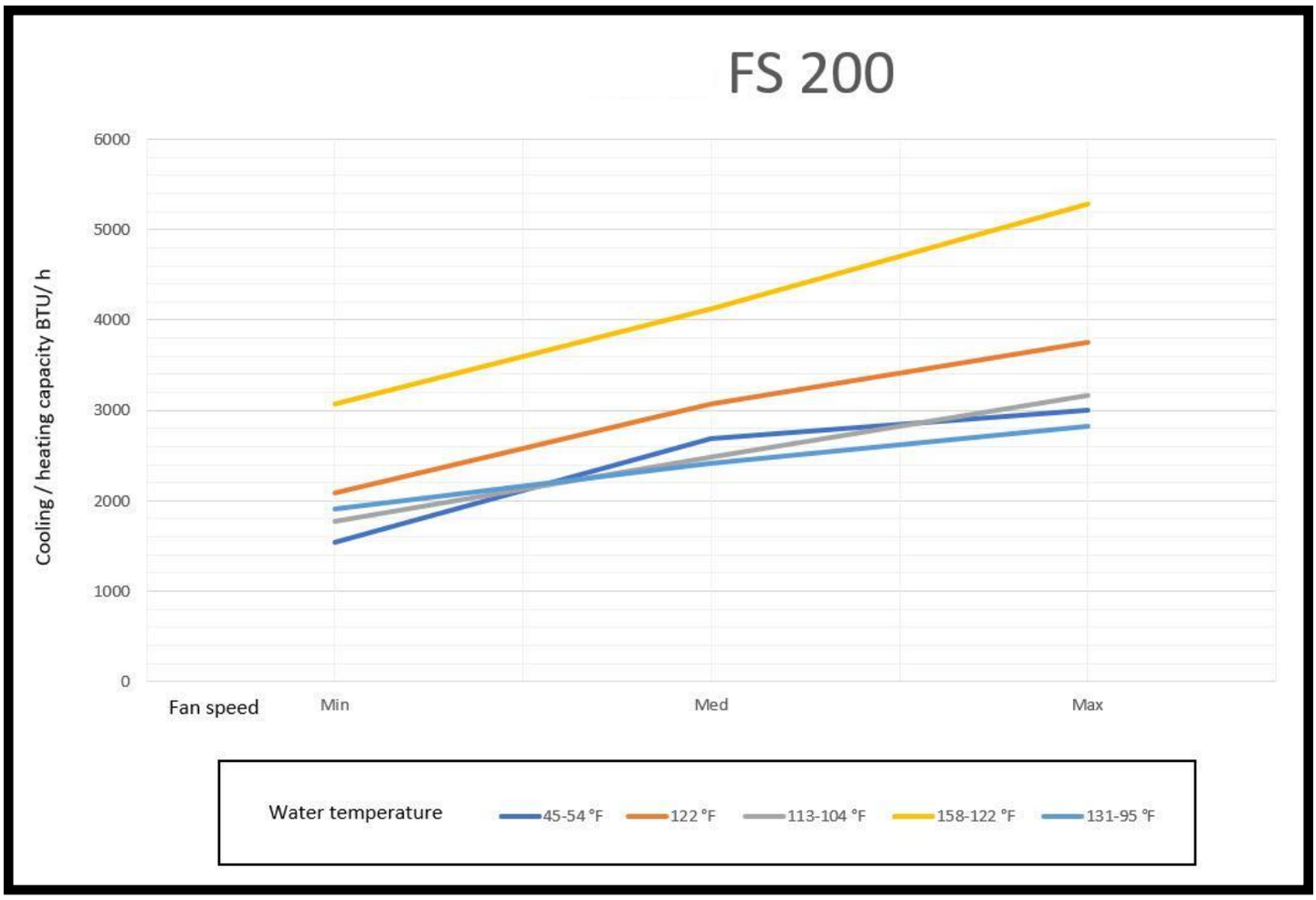
(2) Water temperature 122 °F (50 °C) ambient temperature 68°F d.b and 15 w.b (20 °C b.s. e 15°C b.u.) EN 1397 EUROVENT AHRI

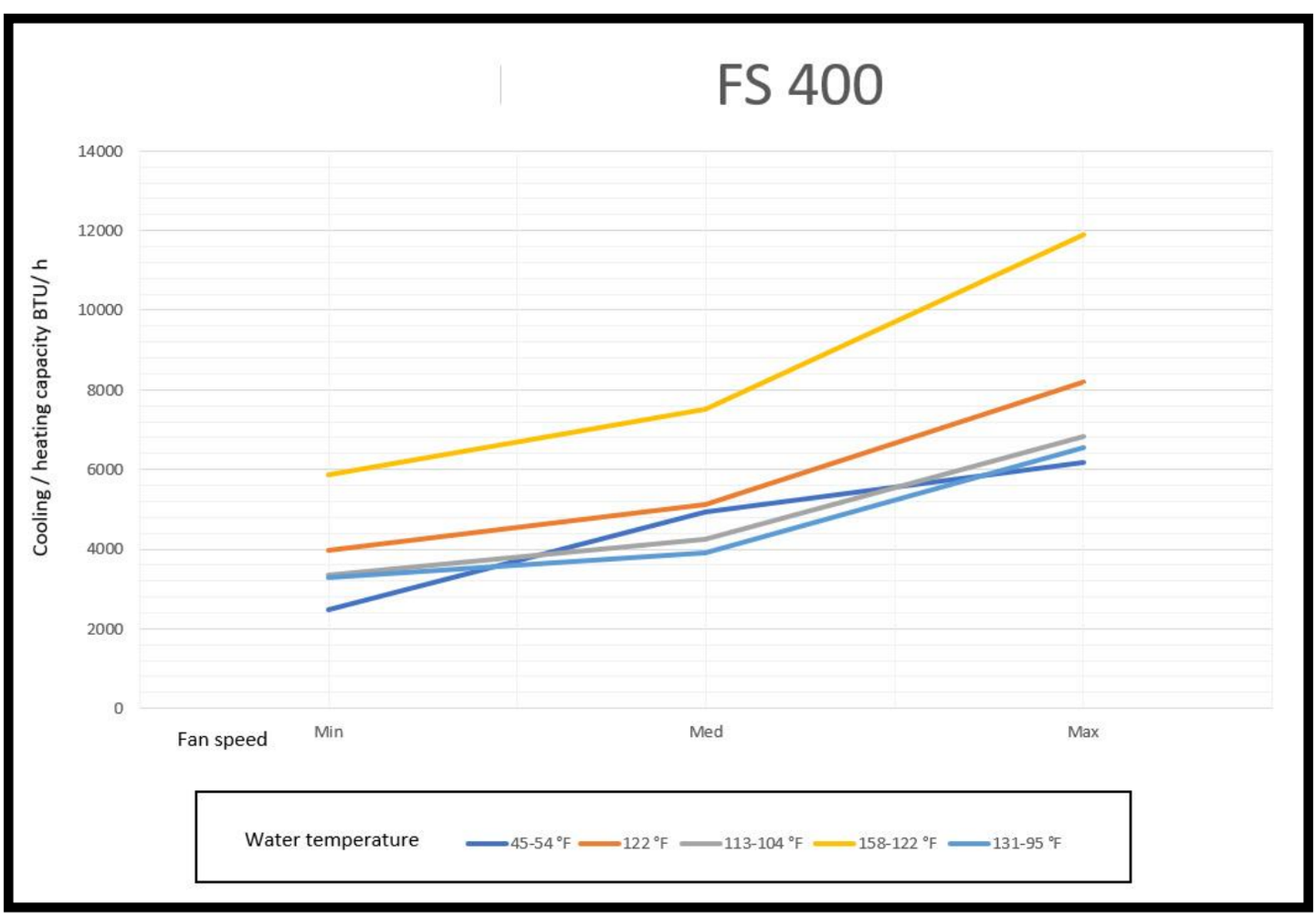
(***) SPL tested at 1m distance , conform to ISO7779

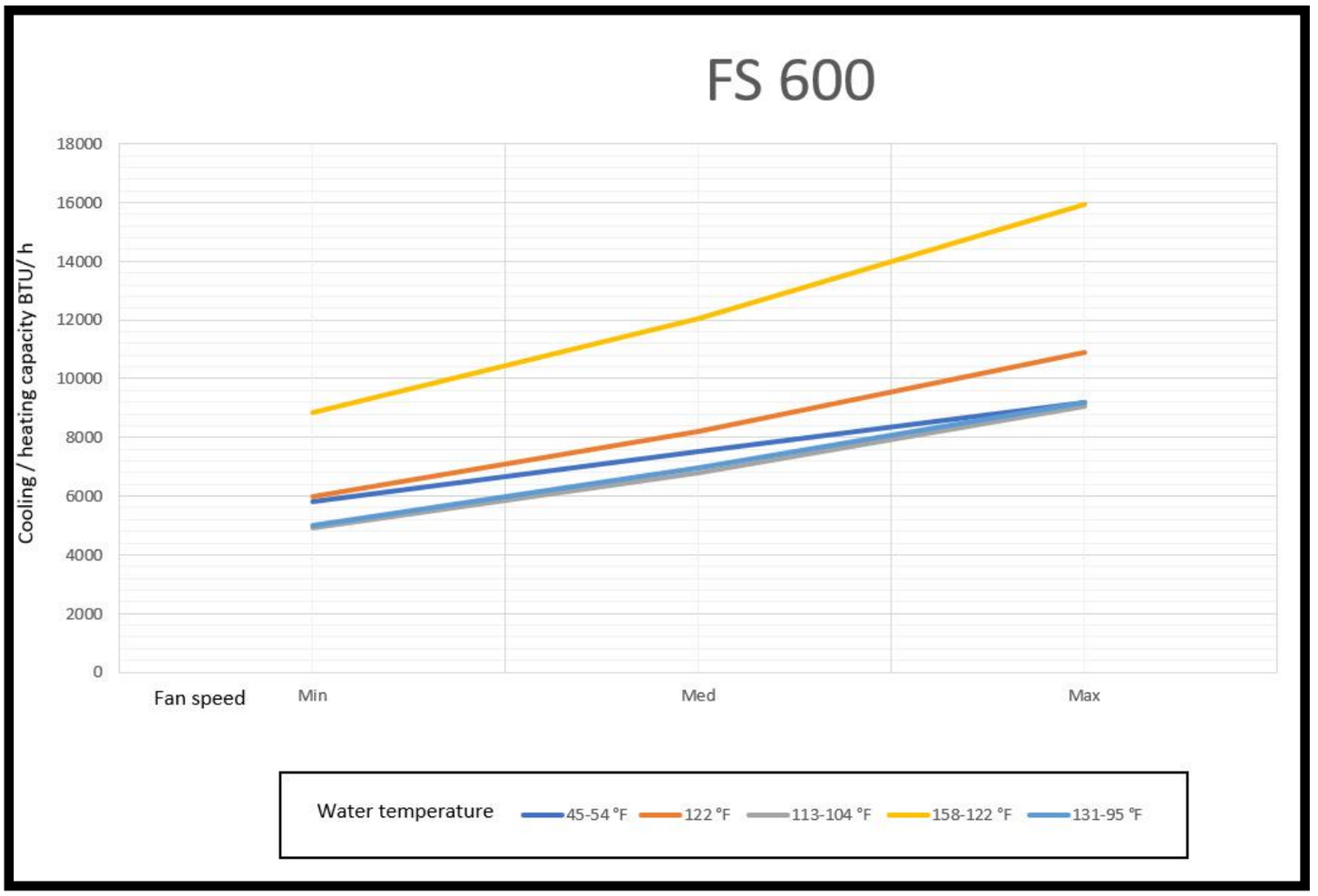
Machine dimensions

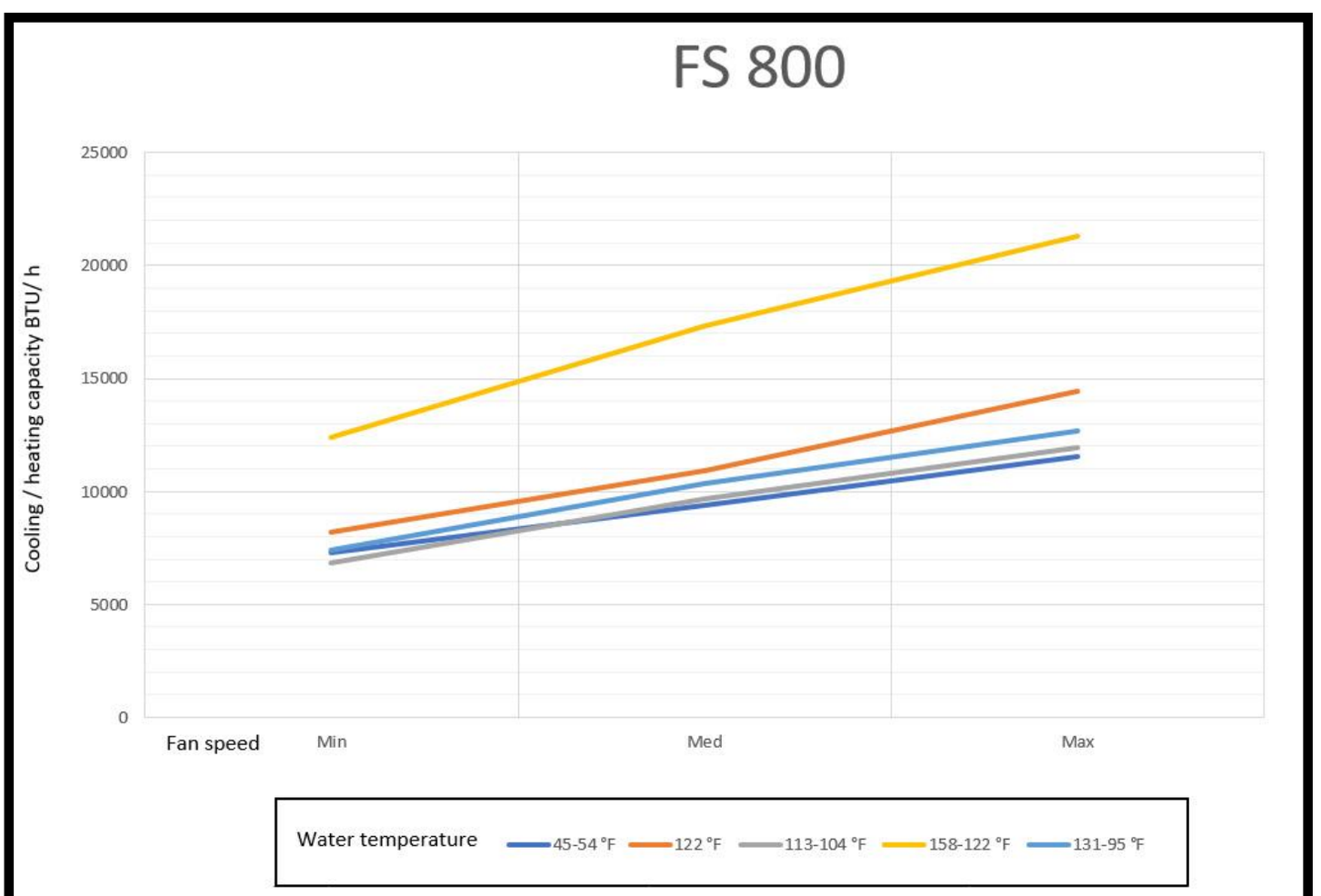


	200	**400**	**600**	**800**
A(inch)	28 3/8	35 15/16	43 1/2	51 1/16
Deep (inch)	4 13/16			
Weight (ibs)	35,75	44,79	53,4	62,22


FS 200
Cooling / heating capacity BTU/ h
6000
5000
4000
3000
2000
1000
0
Fan speed
Min
Med
Max
Water temperature
45-54 °F
122 °F
113-104 °F
158-122 °F
131-95 °F


FS 400
Cooling / heating capacity BTU/ h
14000
12000
10000
8000
6000
4000
2000
0
Fan speed
Min
Med
Max
Water temperature
45-54 °F
122 °F
113-104 °F
158-122 °F
131-95 °F


FS 600
Cooling / heating capacity BTU/ h
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
Fan speed
Min
Med
Max
Water temperature
45-54 °F
122 °F
113-104 °F
158-122 °F
131-95 °F

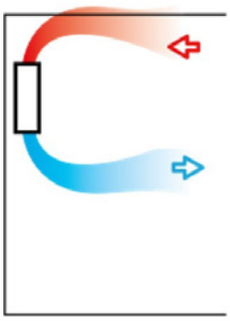

FS 800
Cooling / heating capacity BTU/ h
25000
20000
15000
10000
5000
0
Fan speed
Min
Med
Max
Water temperature
45-54 °F
122 °F
113-104 °F
158-122 °F
131-95 °F



High wall fan coil

[redacted] 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 .

SolarizonHW 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



Frontal panel

Tempered crystal
Back silk printed

LCD display

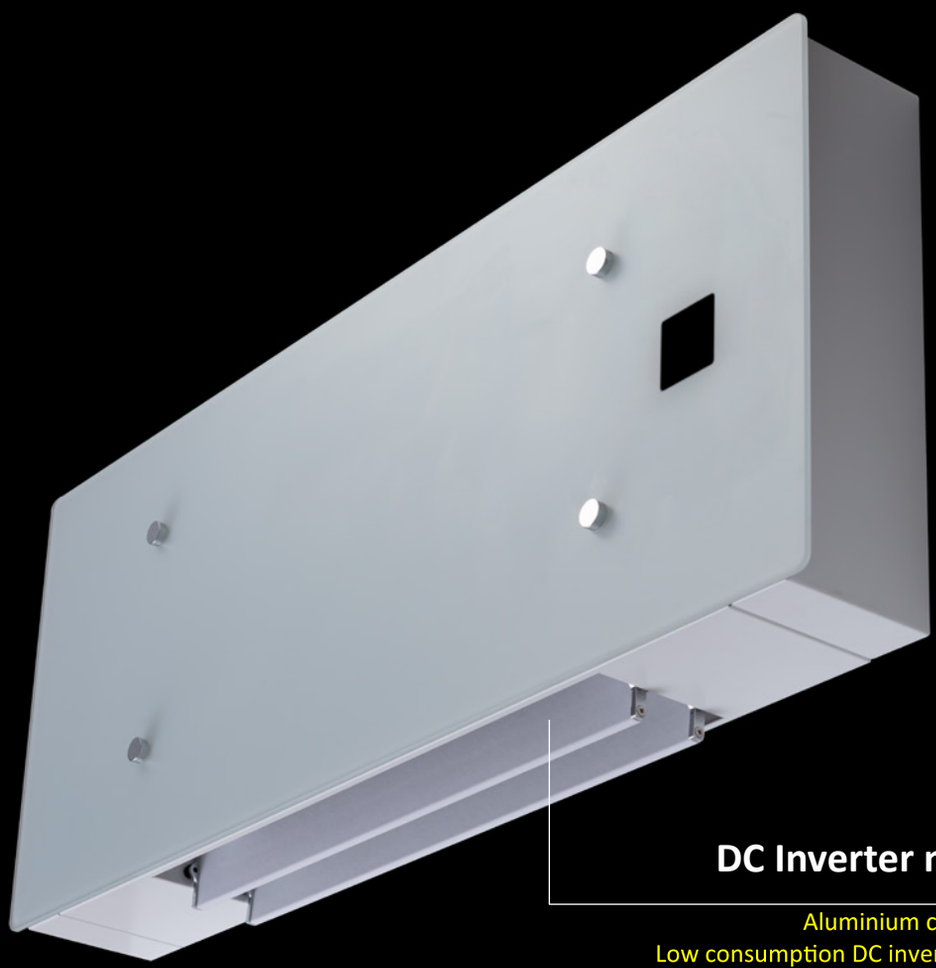
2 digit display
Remote control receiver
Remote control as series

12 cm thick



Microwave Stainless steel filter

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



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

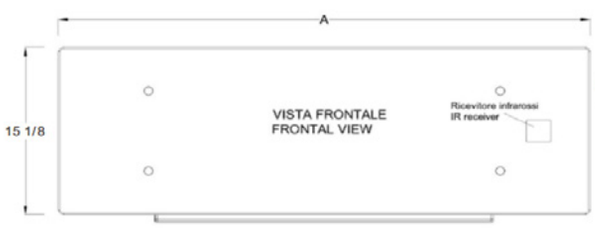
	Model			HW 400	HW 600	HW 800
(1)	Cooling capacity	45°F -54 °F	BTU/h (kW)	4095 (1,2)	5801 (1,7)	8360 (2,45)
(1)	Sensible capacity	45°F -54 °F	BTU/h (kW)	3037 (0,85)	5050 (1,45)	7677 (2,15)
(1)	Water flow rate MAX	45°F -54 °F/122 °F	GPM (l/h)	0,907 (206)	1,286 (292)	1,849 (420)
(1)	Water drop fow	45°F -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)
	Hydraulic data					
	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
	Aeraulic data					
	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
	Electric data					
	Alimentation		V-Hz-Ph	115 V - 60 Hz - 1Ph		
	Power supply (MIN-MAX) / potenza elettrica (min-max)		watt	4-11	5-14	8-17
	Dimension / Dimensioni					
	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)		
	Features					
	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		
	Optional Accessories					
	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		
	Packing data					
	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

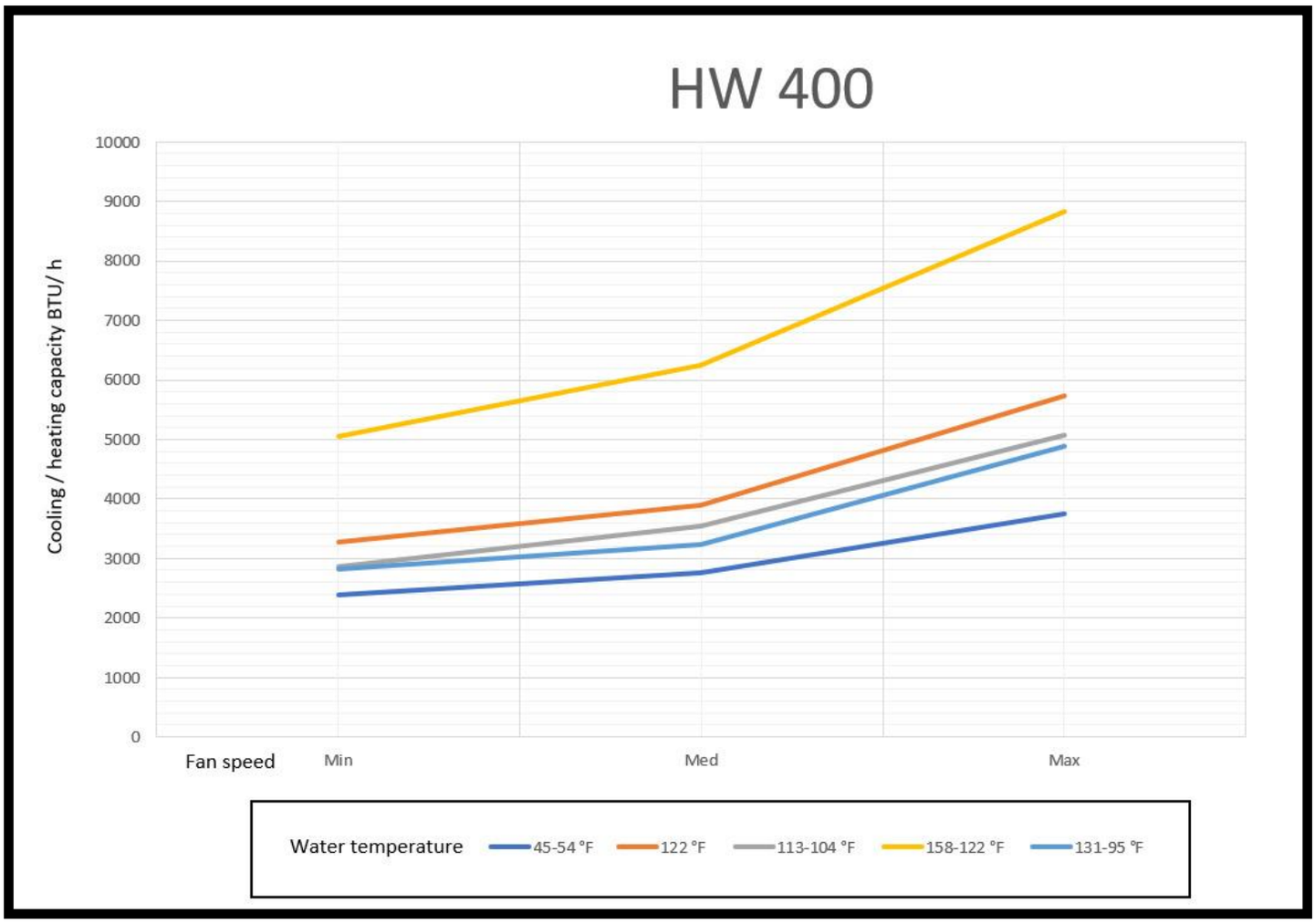
(2) Water temperature 122 °F (50 °C) ambient temperature 68°F d.b and 15 w.b (20 °C b.s. e 15°C b.u.) EN 1397 EUROVENT AHRI

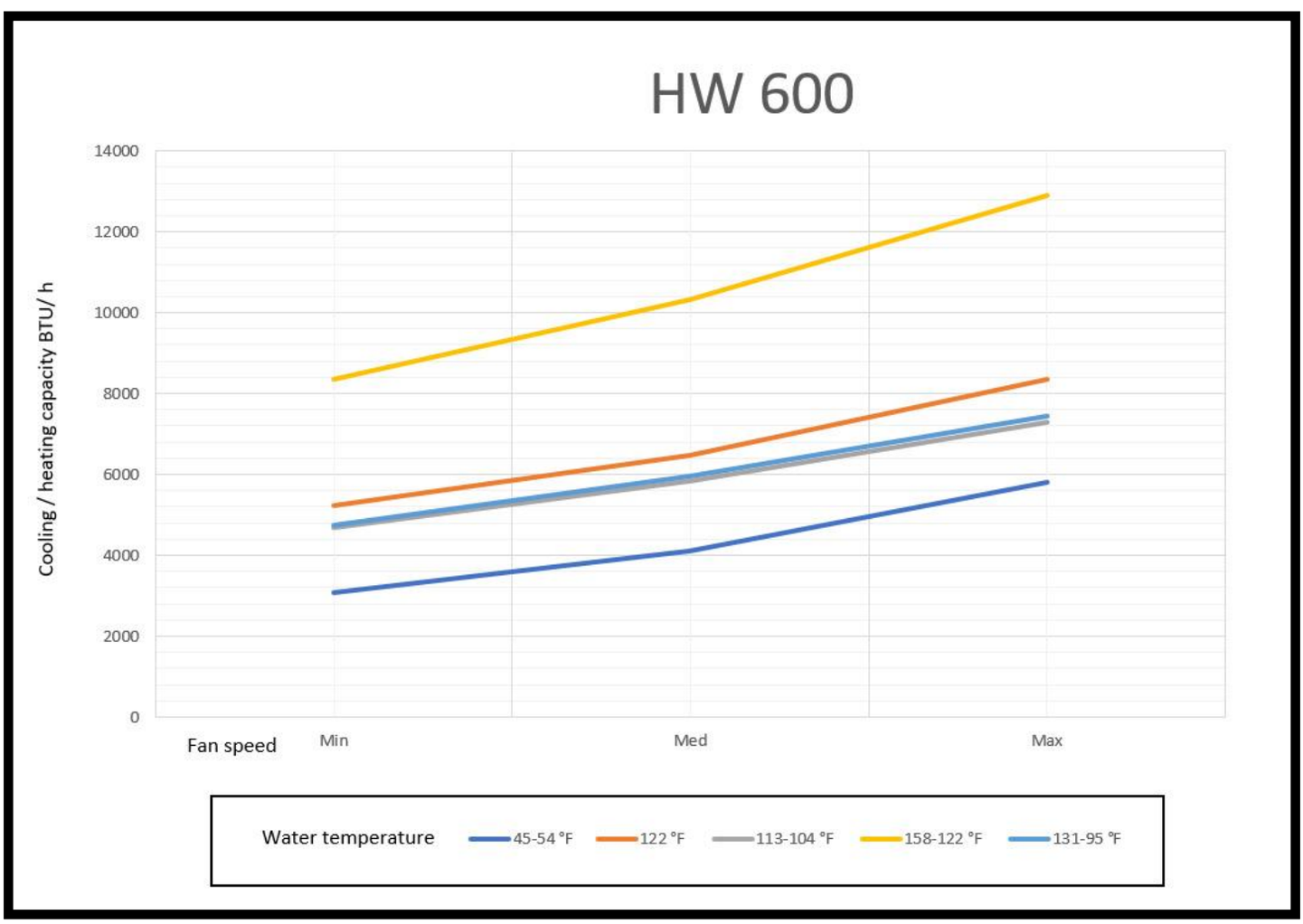
(***) SPL tested at 1m distance , conform to ISO7779

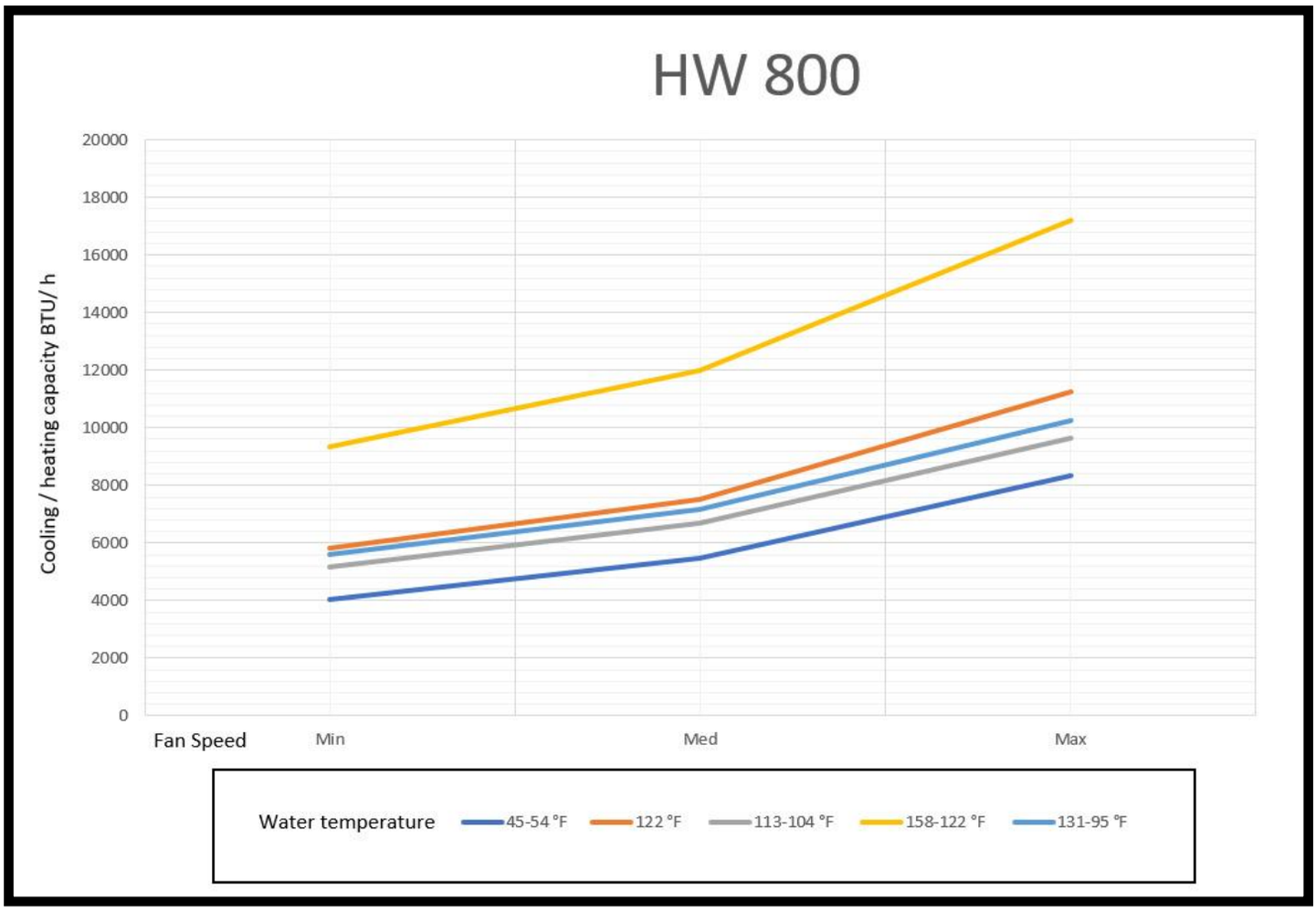
Machine dimensions



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


HW 400
Cooling / heating capacity BTU/ h
10000
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
Fan speed
Min
Med
Max
Water temperature
45-54 °F
122 °F
113-104 °F
158-122 °F
131-95 °F


HW 600
Cooling / heating capacity BTU/ h
14000
12000
10000
8000
6000
4000
2000
0
Fan speed
Min
Med
Max
Water temperature
45-54 °F
122 °F
113-104 °F
158-122 °F
131-95 °F


HW 800
Cooling / heating capacity BTU/ h
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
Fan Speed
Min
Med
Max
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

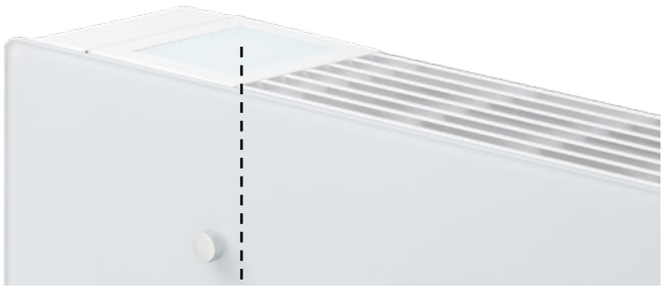
2 and 4 pipes system

FS Line required

HW as optional

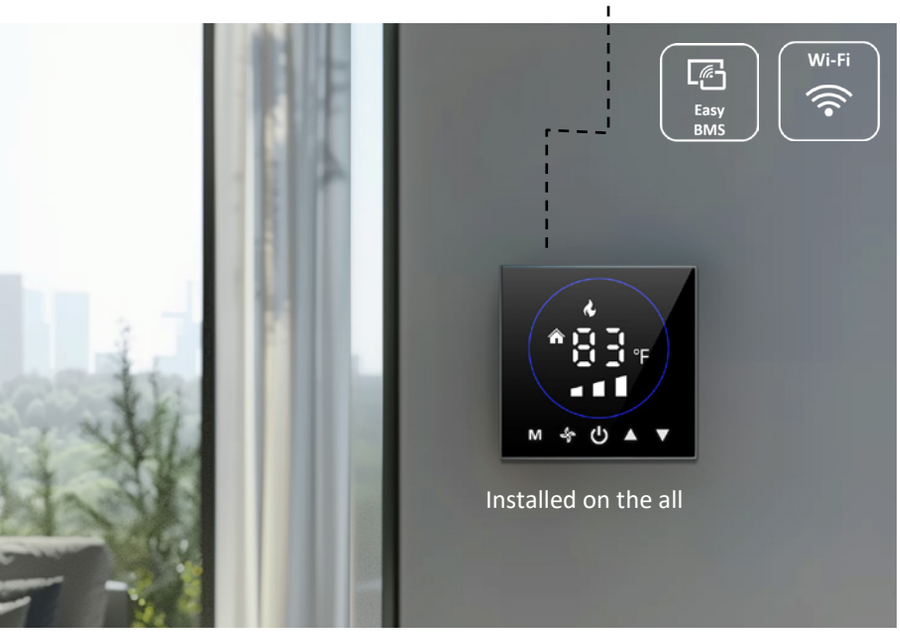
Only one control , for both necessities .

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



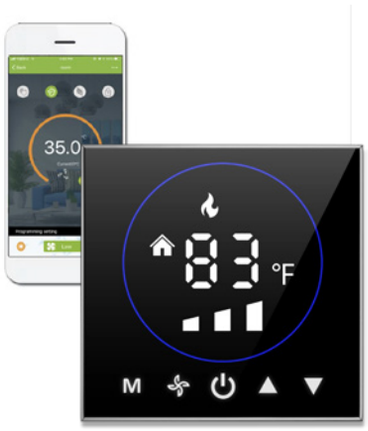
FS line is sold with or without control and the installer can decide if manage the machine stand alone or master slave net . The control CTOP WF could be installed on board or on the wall and is available for ON-OFF or 0-10 VDC modulating valves .





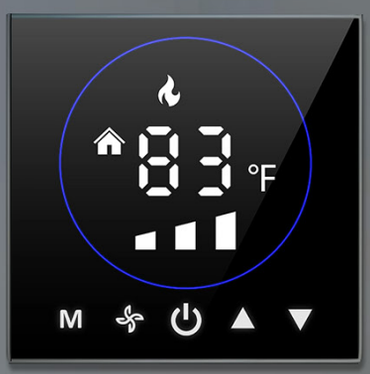
HW Line

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

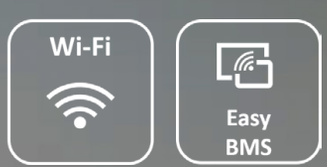
Wi-Fi connection
24 Vac Thermostat 2& 4 pipes
3 fan speed control and ON-OFF valve control
F° and C° display temperature
Humidity sensor
Weekly program
Record energy consumption



CTOP-WF-24 VAC 0-10 VDC

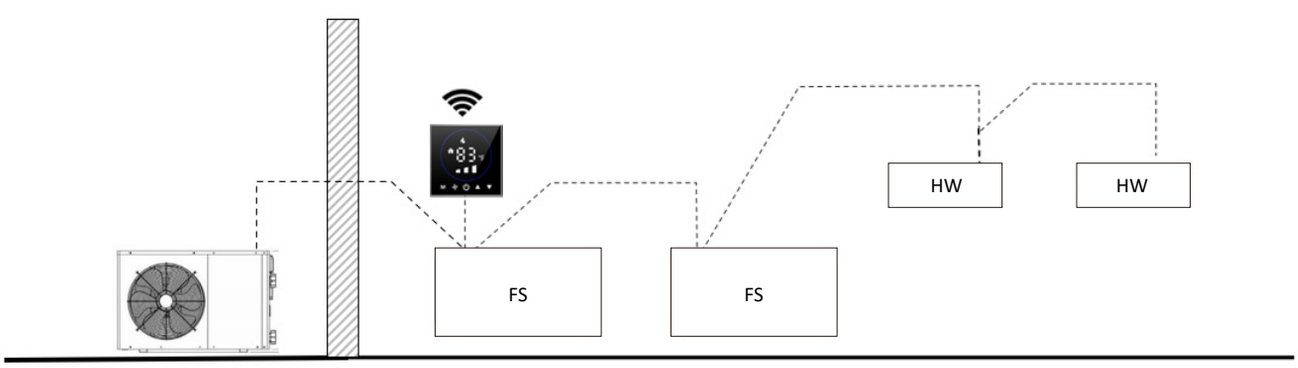
Modulating

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



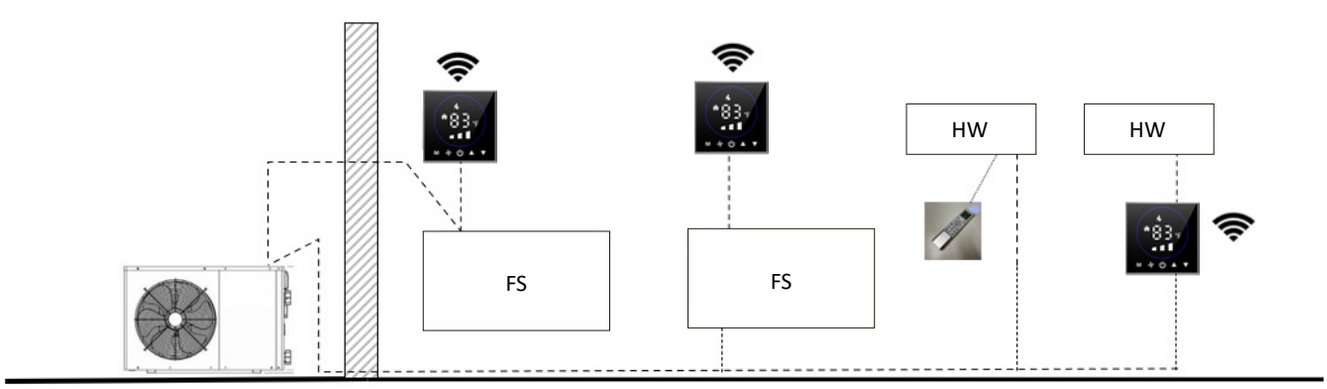
Master slave control

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



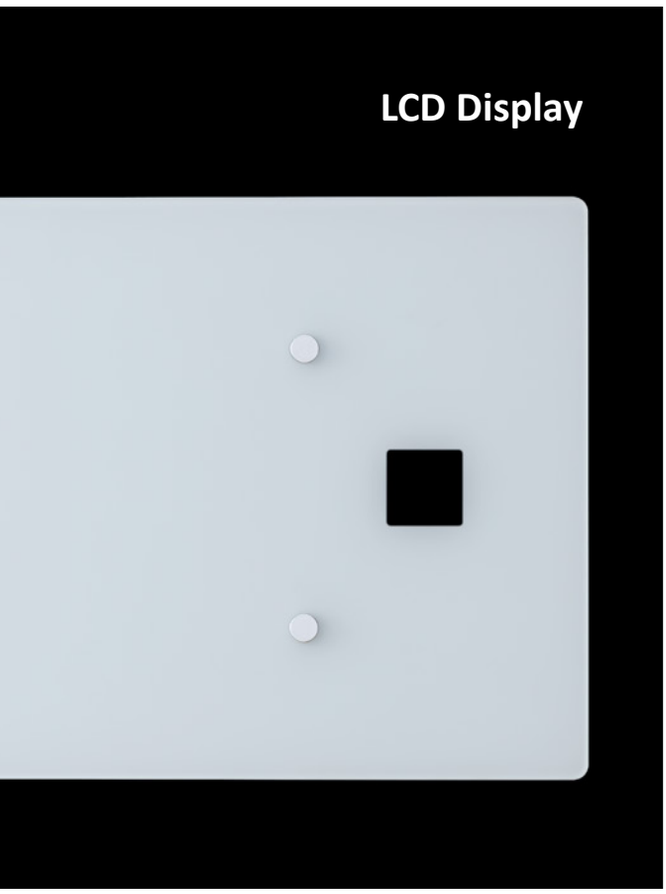
Stand Alone control

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



Controls

HW Line supplied as standard (no Wi—Fi)







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

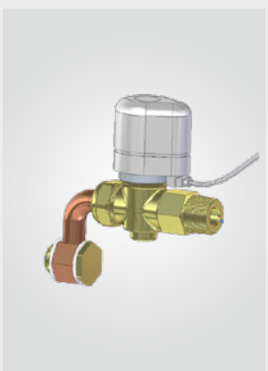
Timer and clock wise

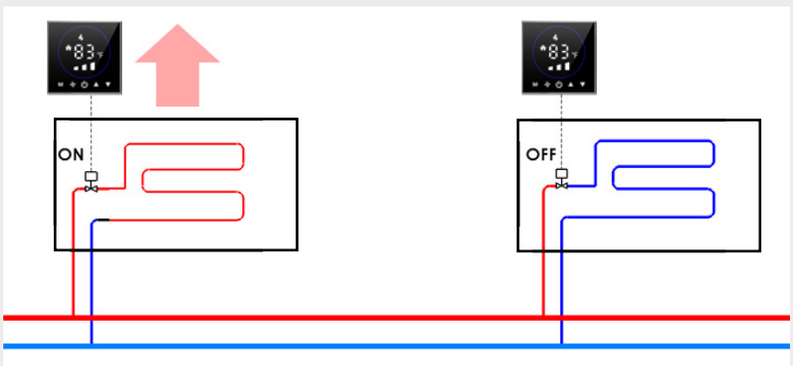
Note : If the Wi - Fi connection needs , it’s necessary to install wall pad control CTOP WF.

Valves Kits

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

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

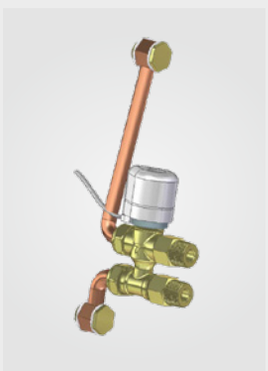


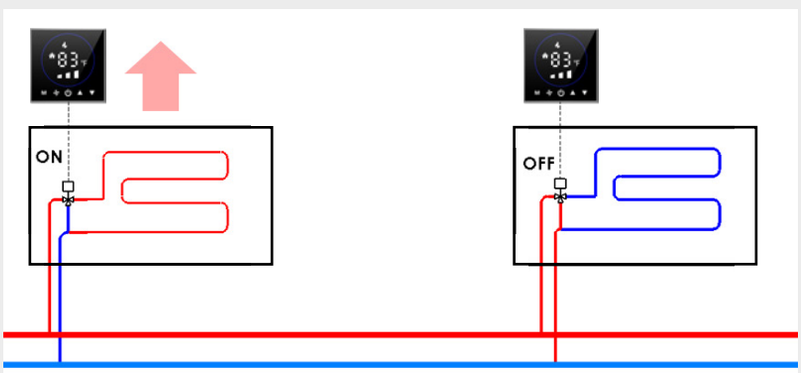


Available for all the range FS—HW ; for 2 port valves it's suggested the by pass in the water collector and modulating water pump . With this valve use control

CTOPWF24VAC ON-OFF

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





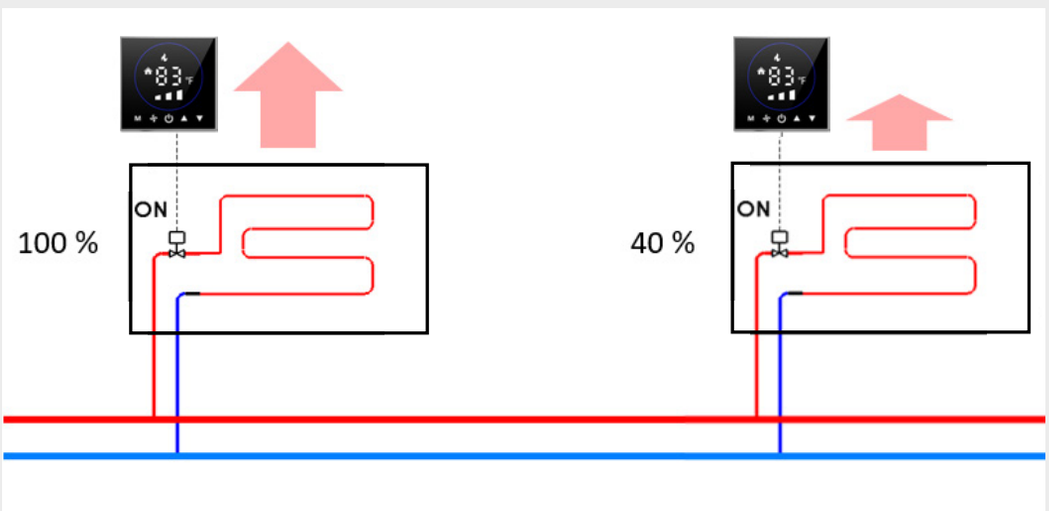
Available for all the range FS—HW. 3 port valve It's suggested for 90 % of the installations with on-off or modulating water pump . With this valve use control

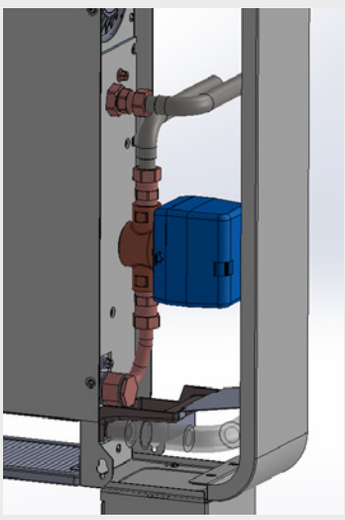
CTOPWF24VAC ON-OFF

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*



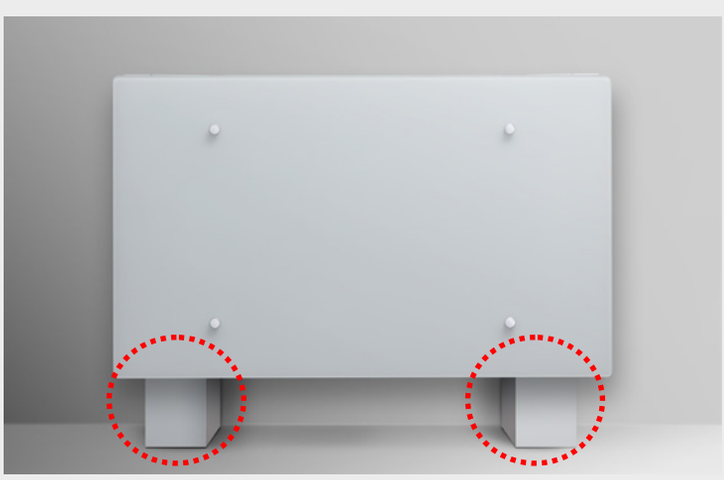


Available for FS range only .

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

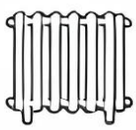




The back panel is made in tempered like the frontal panel ;
this accessory is used when the fan coils is installed in front of glass or window shop to have perfect look .

6 reasons to choose Solid Fan Coil

1. **Solve the limits of radiant systems**



2. **Replace the old water radiators**



3. **Replace old fan coils**



4. **Supply cooling in the new insulated houses**



5. **Improve SEER and SCOP of** Heating pump



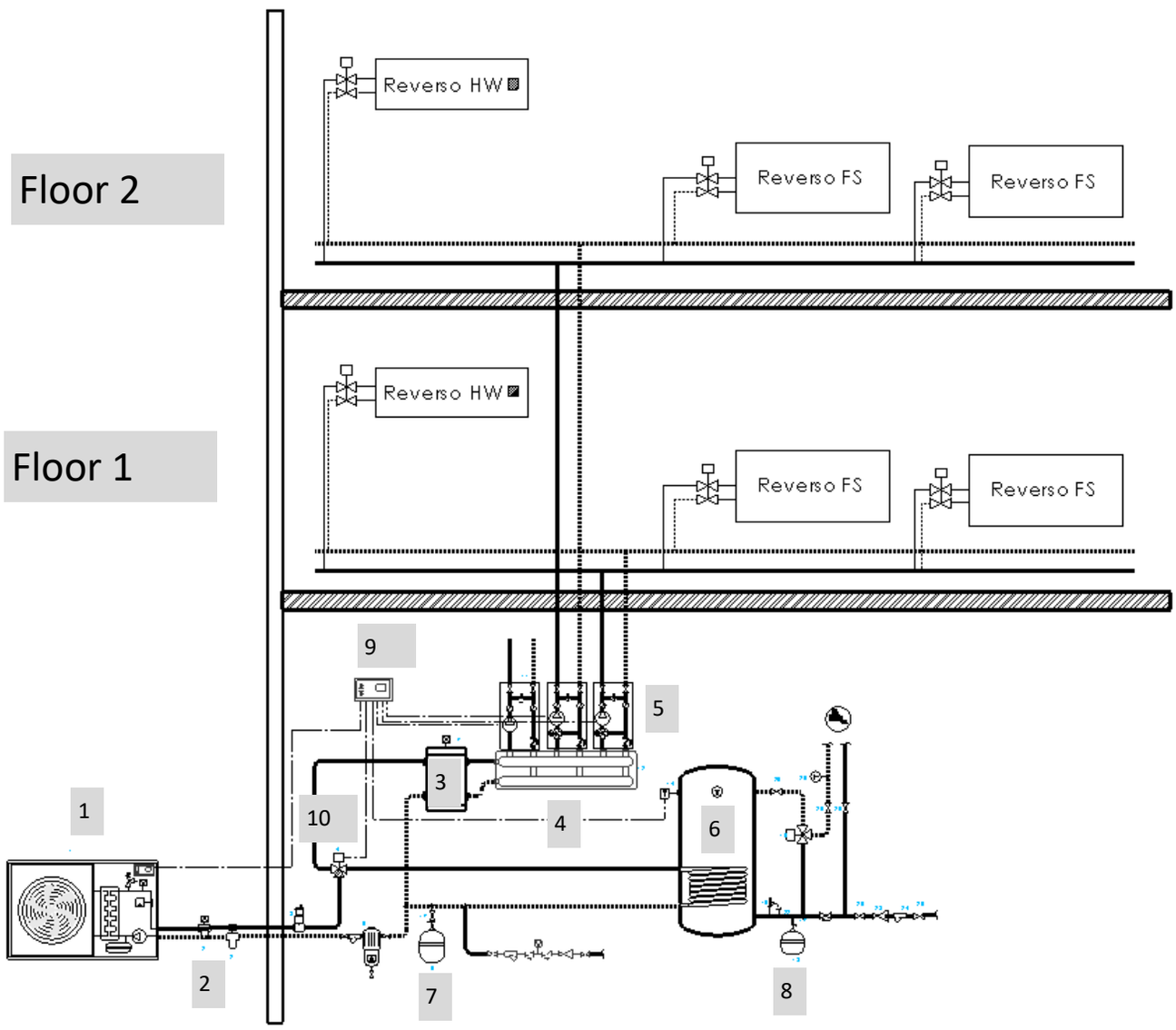
6. **Improve condensing** boiler efficiency



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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)

Design Fan coil

Solarizon
info@solarizon.nl
085-8200980
KvK Nr.: 63415097**btw Nr.:**
NL855225841B01