



Slim Exposed FCU Introduction

We will provide you detailed product specific about the **fan coil units**

Baoding Yuexin Heating and Cooling Equipment Manufacturing Co., Ltd.

130mm Slim Exposed FCU

This is our new improved ultra-thin exposed fan coil unit, only 13cm thickness, but at the same time ensured the good performance of the cooling and heating. What's more, the kind of ultra-thin fan coil unit have the low noise and can be ceiling suspended, wall mounted or floor standing, which is suitable for residential use, office, hotel or other occasion.

► Product Advantage

-  Efficient energy saving
-  Quiet operation
-  Ultra-slim space-saving design
-  Flexible speed adjustment
-  Easy maintenance
-  Strong environmental adaptability
-  Intelligent control
-  Convenient installation

Enhancing comfort and air quality—making it the ideal choice for home use in fan coil units.



Slim FCU Parameter

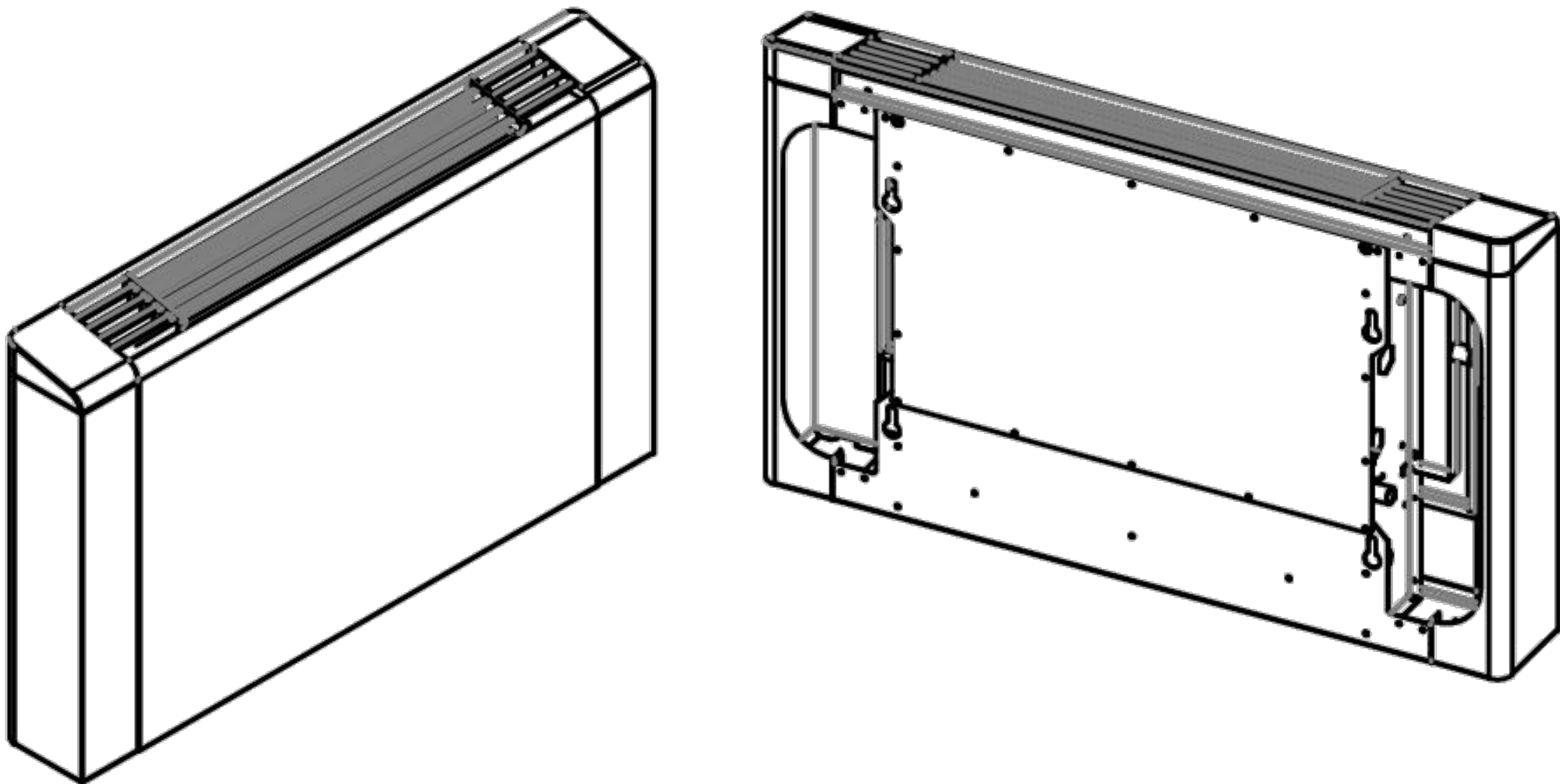
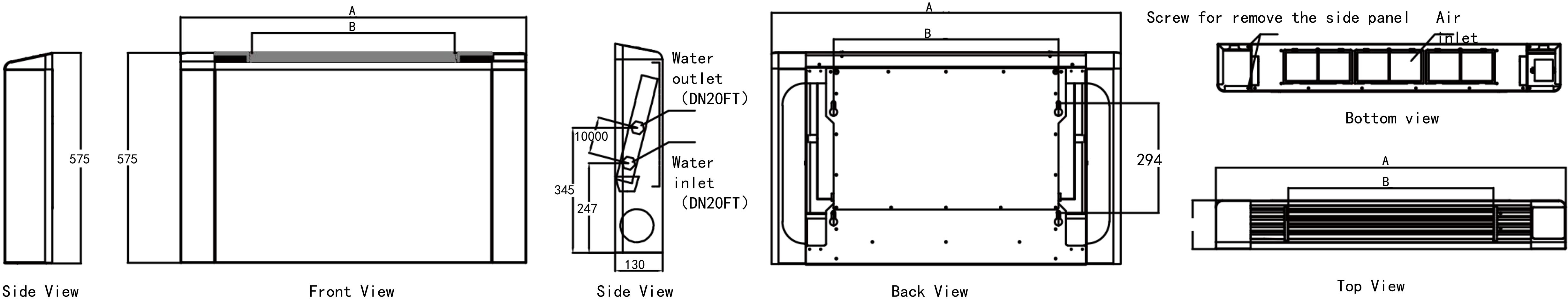
WATER CHILLED FAN COIL UNIT DATA SHEET			
Product name		Slim exposed FCU	
Product type		2-pipe	
Product models		YG-10/20/30	
Application		It is generally used for home, office or hotel, connected with heat pump/chiller or boiler.	
Product function		It can be used for heating or cooling	
Power supply		190-250V 50/60Hz 1PH	
Product components	Condenser	Fin	0.105mm thickness blue color hydrophilic aluminum fins, FPI 20
		Cooper tube	0.26mm thickness,7mm diameter,pitches 21*12.68mm, 42 copper tubes in 3 rows
	Drain pan	Material	Steel sheet with Anti-corrosion spraying inside and 6mm insulation on the bottom,
	Panel	0.8mm Hot zinc sheet metal with white spray	
	Motor	Low noise five speed DC fan motor	
	Label	Labels: model label, wiring diagram, precautions, fan rotation logo, etc.	
	Fan	ABS+glass fiber material cross flow fan with low noise	
Production technology	Tube	Mechanical bending, Mechanical expansion, automatic welding	
	Drain pan	One-time molding	
	Body Panel	Fully automatic molding in one molding, with longitudinal reinforcement at the bend,and with high gloss spray surface treatment	
	Motor panel	Hydraulic abrasive ribs+longitudinal reinforcement at the bend	
Inspection standards	1. No scratches or rust on the surface of the machine		
	2. The internal cooler of the machine has no leakage under the pressure of 1.6Mpa (hold pressure for at least 5min)		
	3. The unit starts under the condition of 90% of the rated voltage and runs stably for 10 minutes		
	4.Under normal temperature and humidity conditions, use 500V insulation resistance meter to measure the insulation resistance between the live part and non-metal live part of the unit is not less than 2MΩ		

Model	YG-10	YG-20	YG-30
Power supply	190-250V, 50/60Hz, 1PH		
Fan speed range	200-2000RPM		
Air Flow (m3/h)	265	420	630
Power Input (w)	14	16	21
Noise (dB)(1200RPM)	34	37	39
Cooling Cap. (KW)（7℃）	0.9	1.68	3.36
Heating Cap. (KW)（45℃）	0.99	1.83	3.45
Heating Cap. (KW)（60℃）	1.56	3	5.65
Water P.D. (Kpa)	12	10	41
Water Flow (m3/h)	0.2	0.3	0.61
Net weight(kg)	15.3	17.9	23.3
Gross weight(kg)	18	21	27
Packing size(mm)	820*670*185	1010*670*185	1290*670*185
Noted	1. All the datas test under the 1200rpm 2.The test condition,cooling:DB24℃, WB18.7℃; heating: 20℃		

More data sheet of Slim FCU

Data sheet of Slim exposed FCU under different fan speed															
Model NO.	YG-10					YG-20					YG-30				
Fan speed	1200	1400	1600	1800	2000	1200	1400	1600	1800	2000	1200	1400	1600	1800	2000
Air flow	265	300	340	370	400	430	500	580	660	740	630	750	860	980	1060
Power Input	14	19	26	32	35	16	23	32	45	62	21	30	44	63	80
Noise	34	38	42	46	48	37	42	45	48	49	39	44	48	49	52
Cooling Cap. (7℃)	0.9	1.1	1.25	1.35	1.4	1.68	1.92	2.15	2.35	2.59	3.36	3.7	4.13	4.4	4.73
Heating Cap. (45℃)	0.99	1.2	1.38	1.4	1.45	1.83	2.07	2.33	2.57	2.73	3.45	3.92	4.37	4.79	5.05
Heating Cap. (60℃)	1.56	1.87	2.12	2.3	2.38	3	3.35	3.74	4.15	4.5	5.65	6.38	7.12	7.77	8.24
Water flow	0.2	0.23	0.26	0.29	0.32	0.3	0.33	0.36	0.39	0.42	0.61	0.65	0.75	0.8	0.85
Water pressure drop	12	12	14	15	16	10	10	12	14	15	41	45	54	63	70

Technical drawing of Slim FCU:

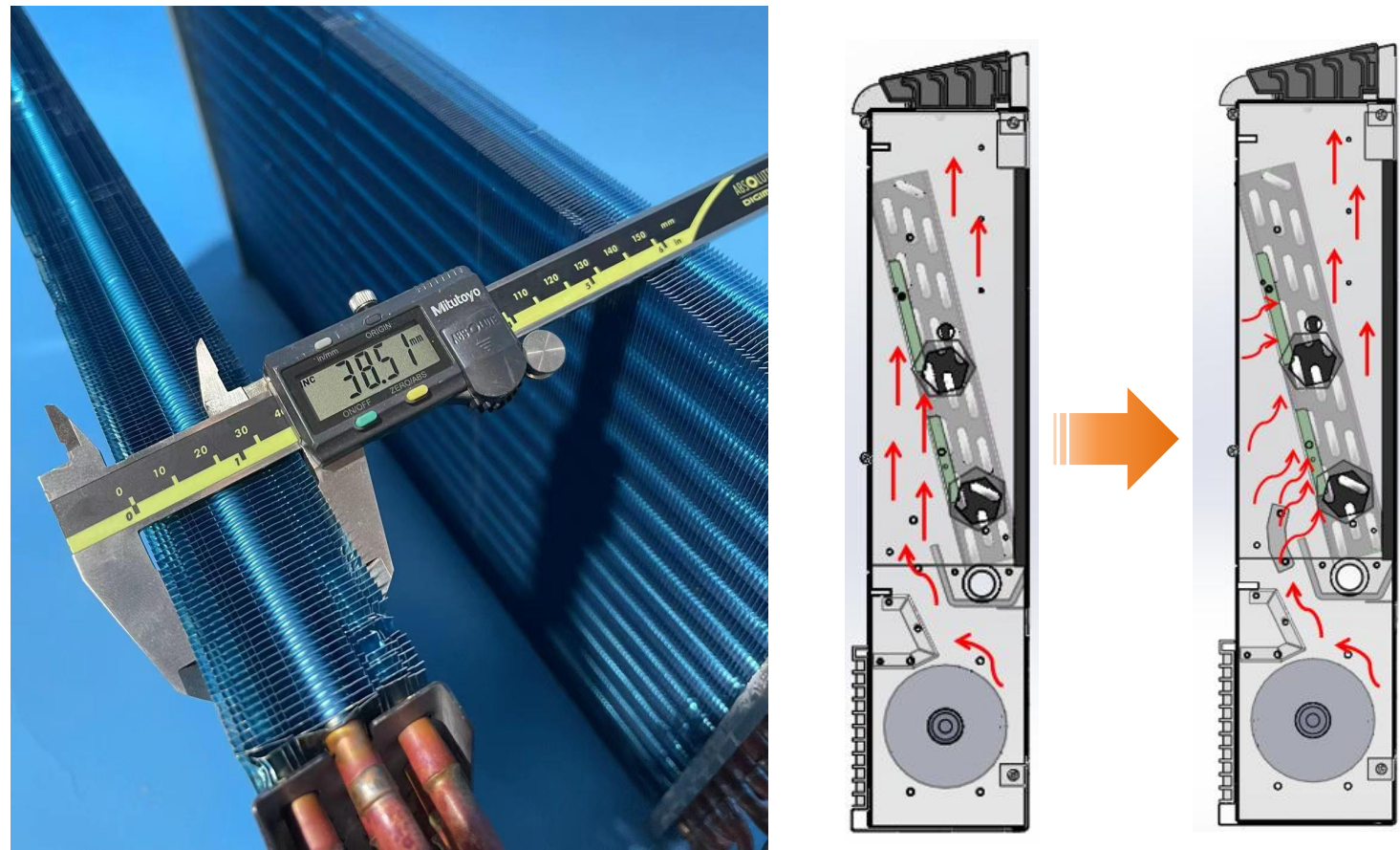


All data unit in mm			
Model	YG-10	YG-20	YG-30
A Total length	760	950	1220
B Air outlet length	360	550	820
D Distance between hanging hole	421	611	881

Details

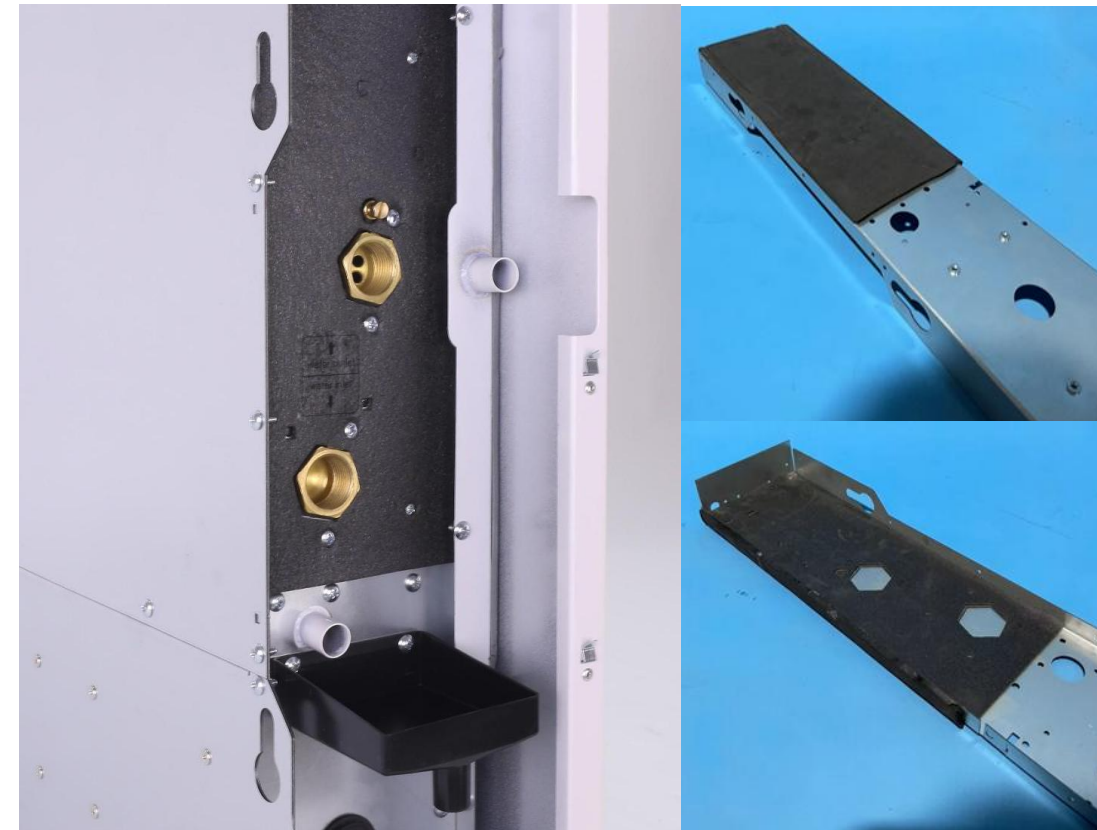
Higher heat exchange rate

- ✓ Increased the heat exchange area: 38.5mm thickness coil and 42 copper tube
- ✓ Distributed are duct, Increased coil utilization rate.



Insulation added:

- ✓ XPE foam insulation added both inside and outside the panel, incase any condensate water outside the panel.



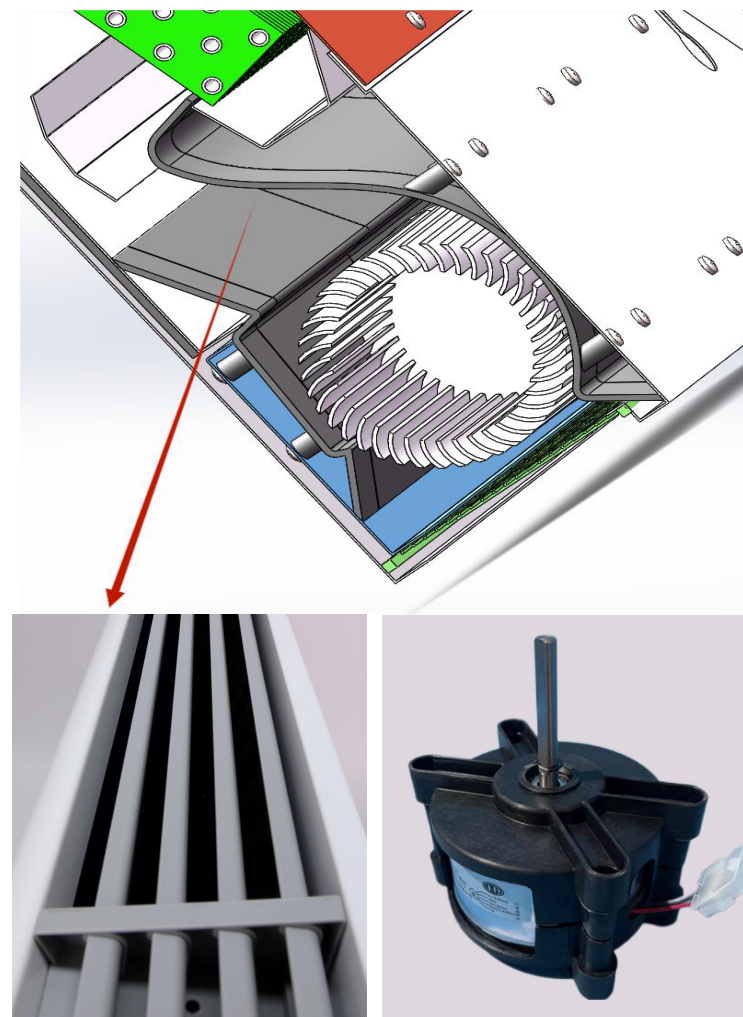
Thermostat control



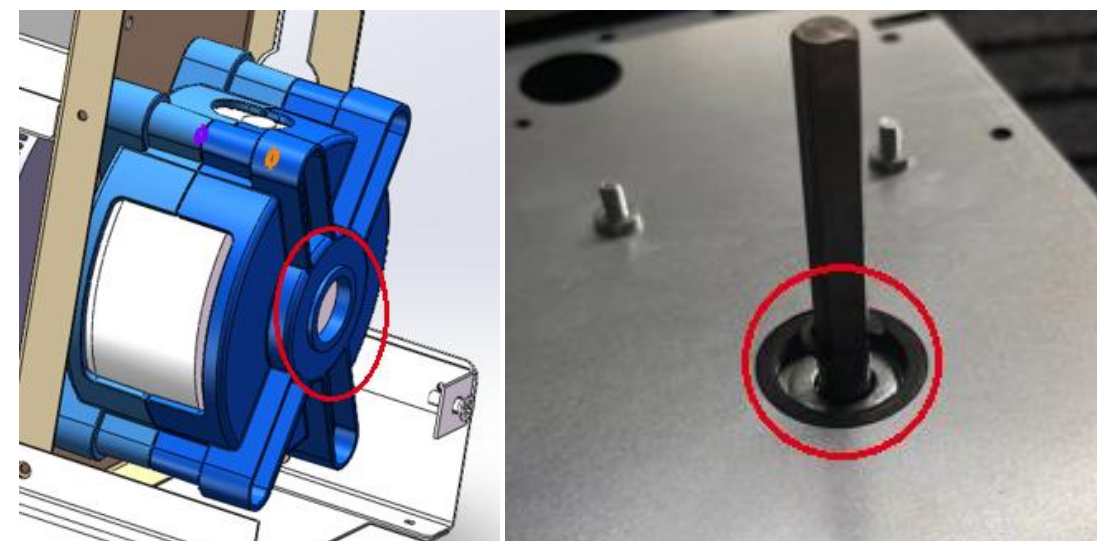
- ✓ LCD screen thermostat
- ✓ 5 fan speed adjustable
- ✓ WIFI connection
- ✓ Fahrenheit or Celsius display
- ✓ Timing
- ✓ RS485
- ✓ Passive linkage function.
- ✓ Power-off memory function
- ✓ Remote control with display

lower noise

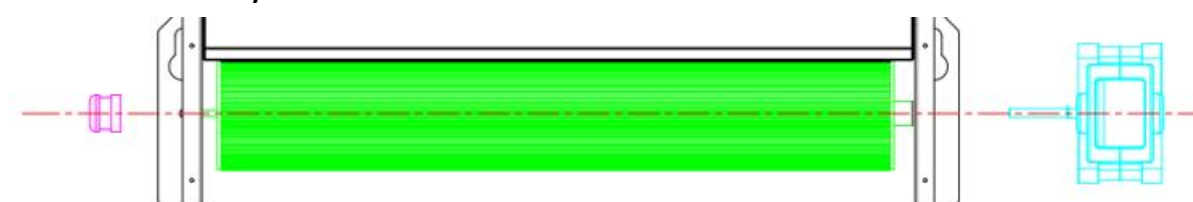
- ✓ Motor we adopted is the DC motor with low noise
- ✓ We added the air deflector, which makes the air flow more reasonable and eliminates the eddy dead Angle, thus reducing the noise caused by the airflow disturbance.
- ✓ Add silencer foam insulation to the air duct inside the unit to reduce the air flow noise.



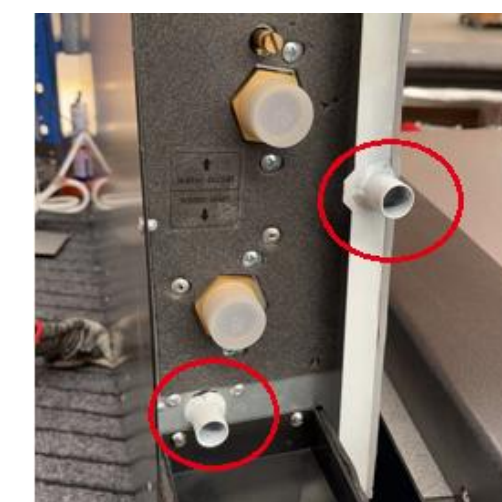
Running stable



- ✓ The concentric positioning of the motor holder can ensure that the motor, fan and tail positioning cushion are in the same straight line, when the motor is running. So that it running stably with low noise.



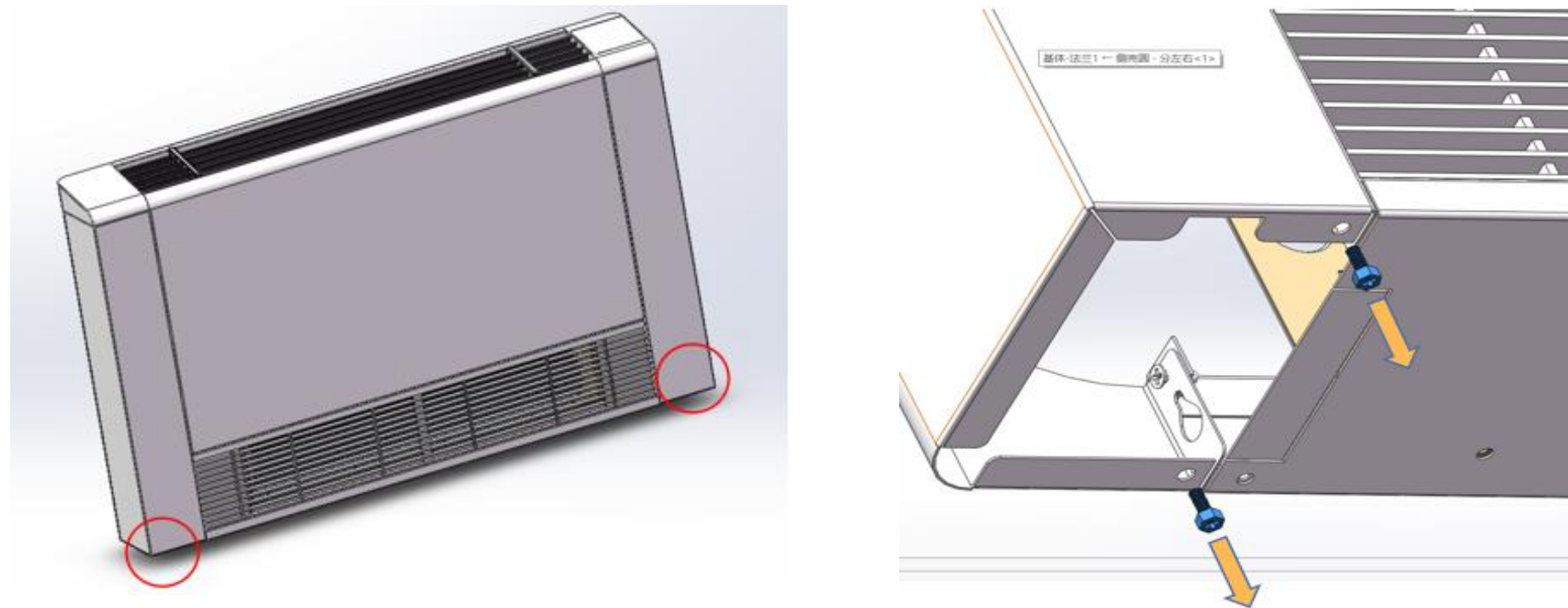
3 ways of installation



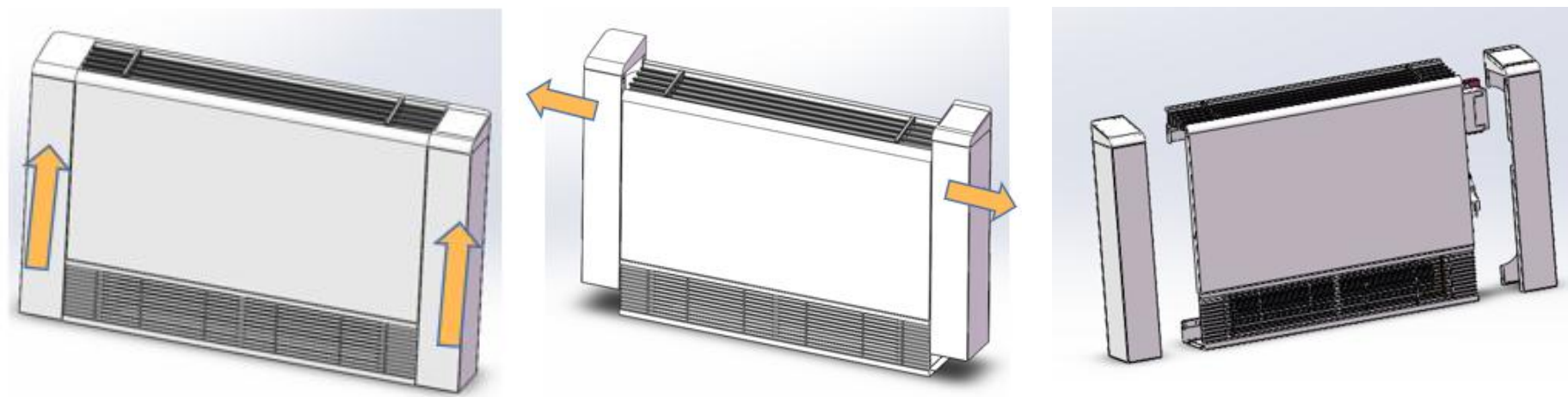
- ✓ Two drain pans in the units, then the units can be installed vertical or horizontal

Details

Side panel removable, for easy to connect water pipe

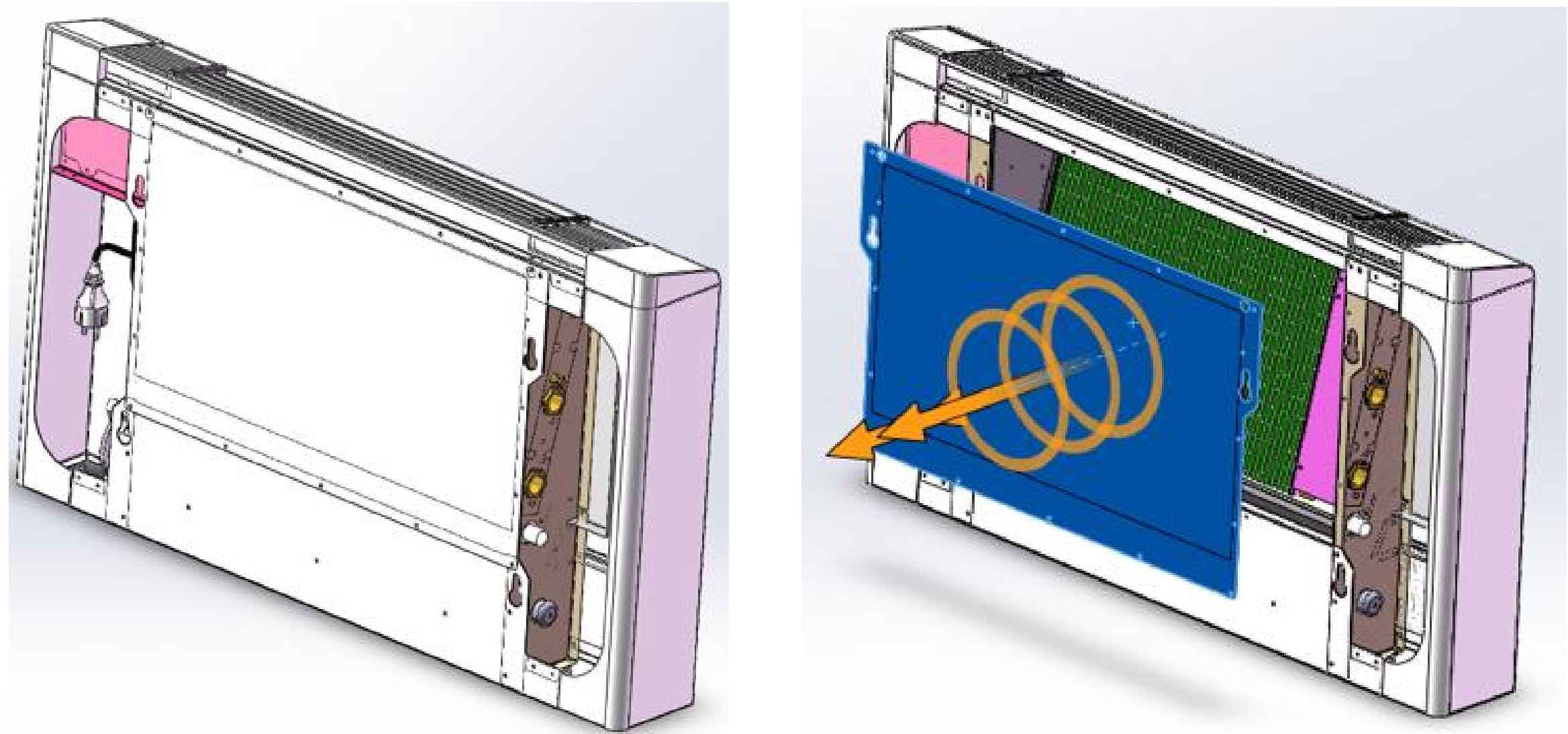


- ☑ There two screw on the bottom on each side.
- ☑ Remove the two screws by screw driver



- ☑ Push the side panel upward
- ☑ Pull the side panel out
Note: if the thermostat side, need to care about the wire.
- ☑ Side panel removed, then connect the water pipe, at last isntall the side panel again

Change the water connection deriction



- ☑ Remove the back panel, the water connection could be exchange.
- ☑ Note: We do not advice to change them much

Added small drain pan

- ☑ The small drian pan can prevent the water from the vent valve or water pipe condensate water drip fell to the floor



Control

It can be integrated with the Internet system (RS485) to achieve remote monitoring and control. Users can adjust the temperature control settings at any time through terminals such as mobile applications.

Function

 WIFI connection

 Timing

 Power-off memory function

 Water sensor optional

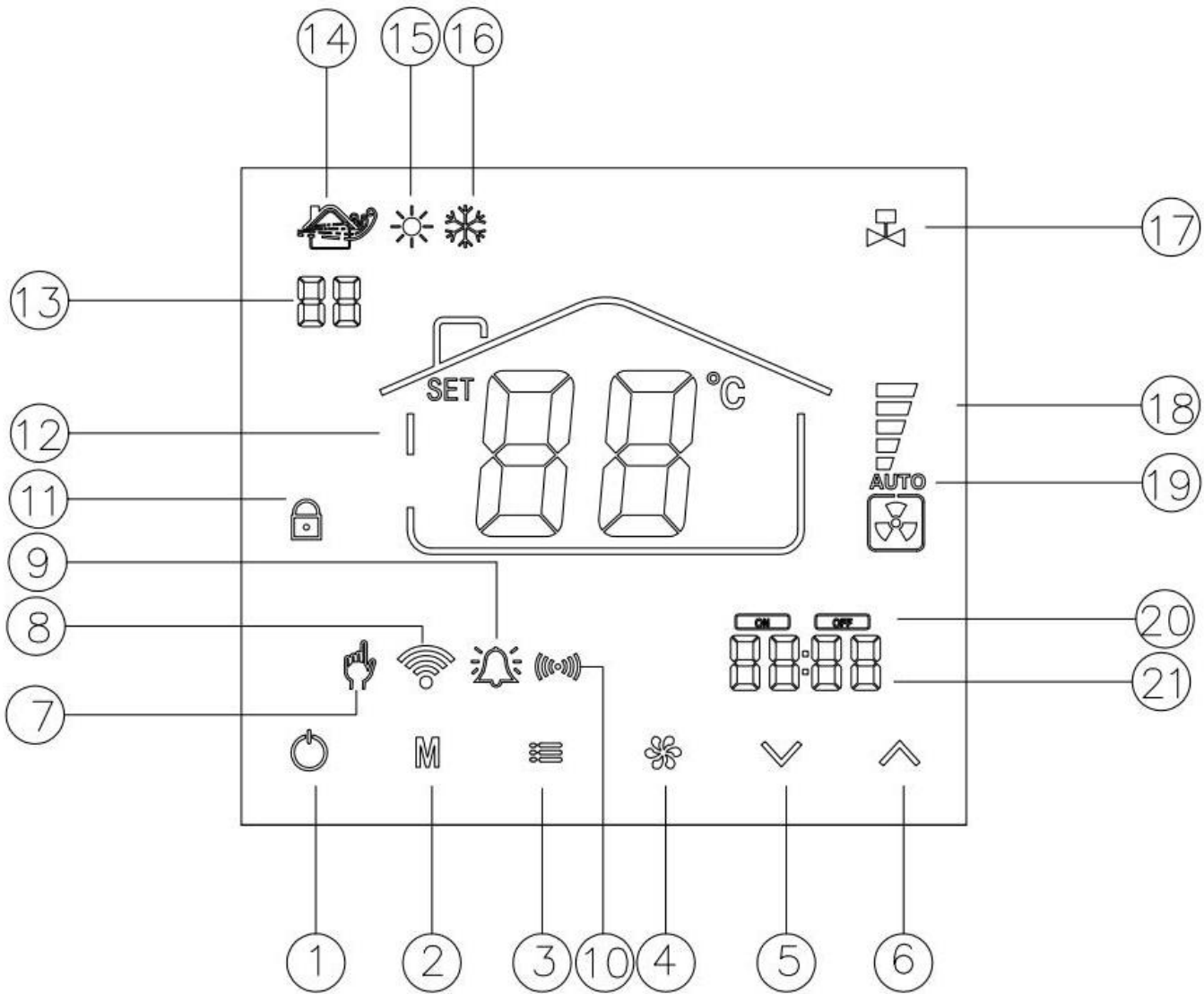
 RS485

 °C and °F can be switched at will

 Passive linkage function

 Remote control with display

 Cold air protection optional

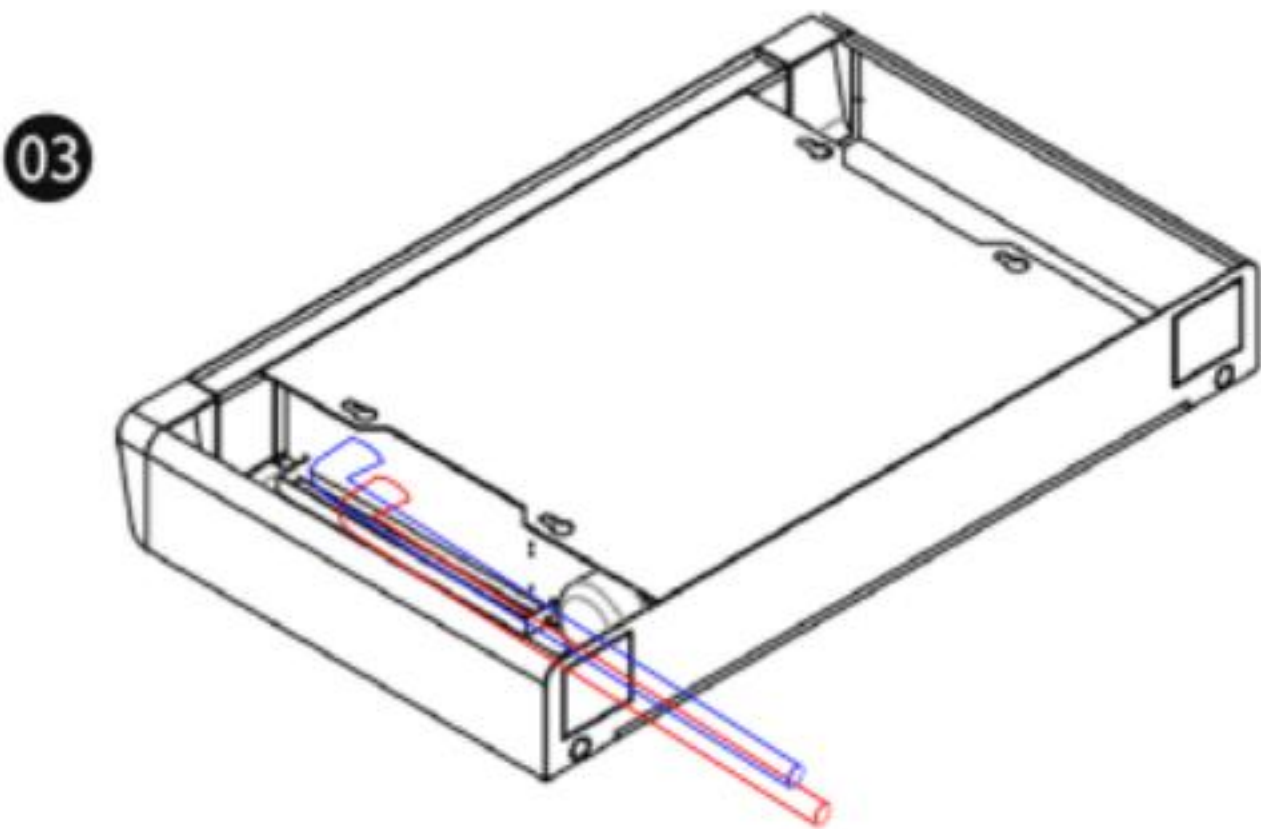
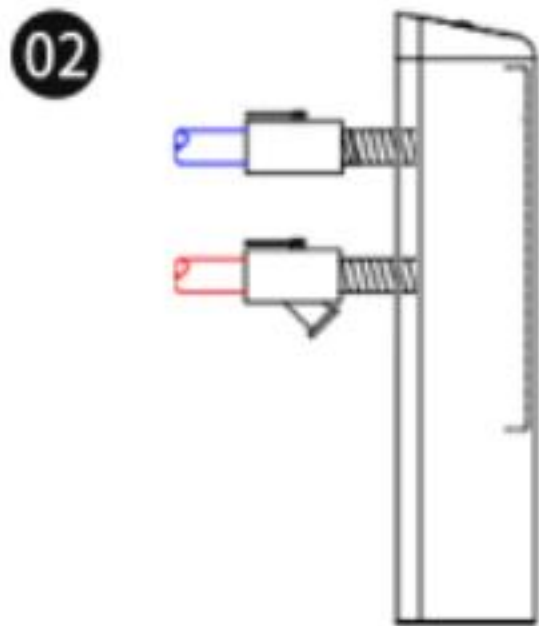
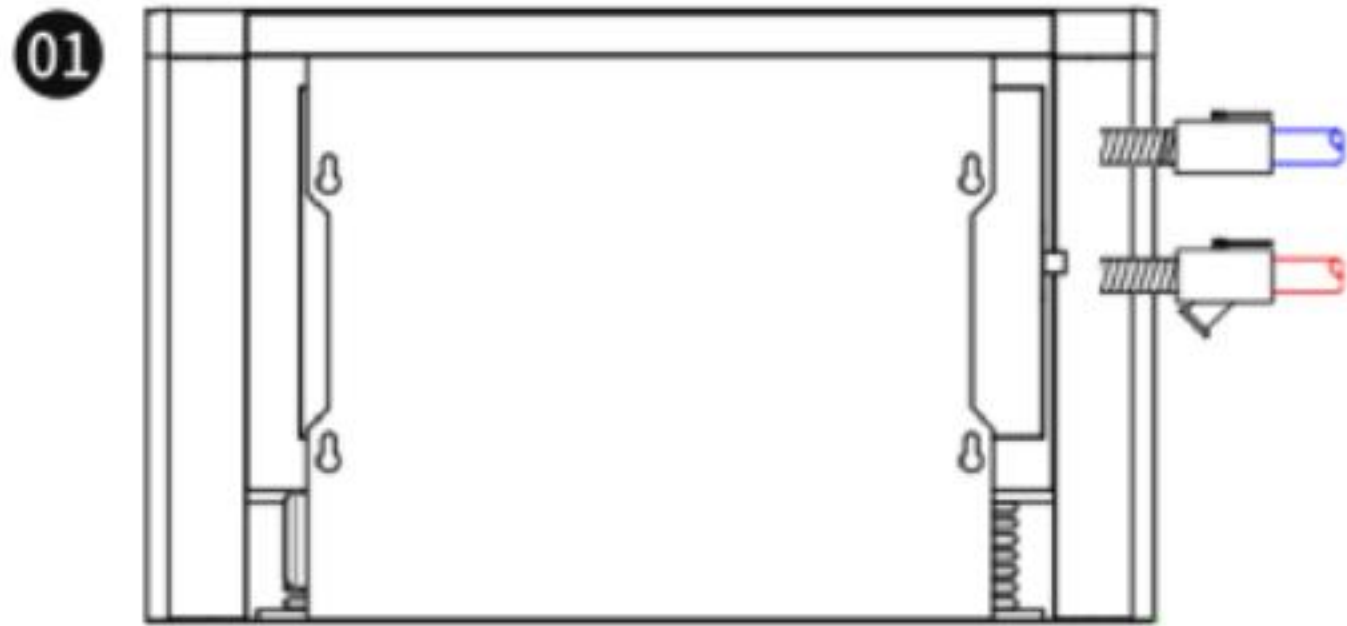


1	Power
2	Mode
3	Timer
4	Fan speed , long press lock the display
5	Down
6	Up
7	Manual mode icon
8	WIFI icon
9	Alarm icon
10	Communication icon
11	Lock icon
12	Temperature display zone
13	Fault code display zone
14	Fan mode icon
15	Heat mode icon
16	Cold mode icon
17	Valve open icon
18	Fan speed display zone, more cell faster speed
19	Auto icon
20	Timer icon
21	Time display zone

Installation Instruction

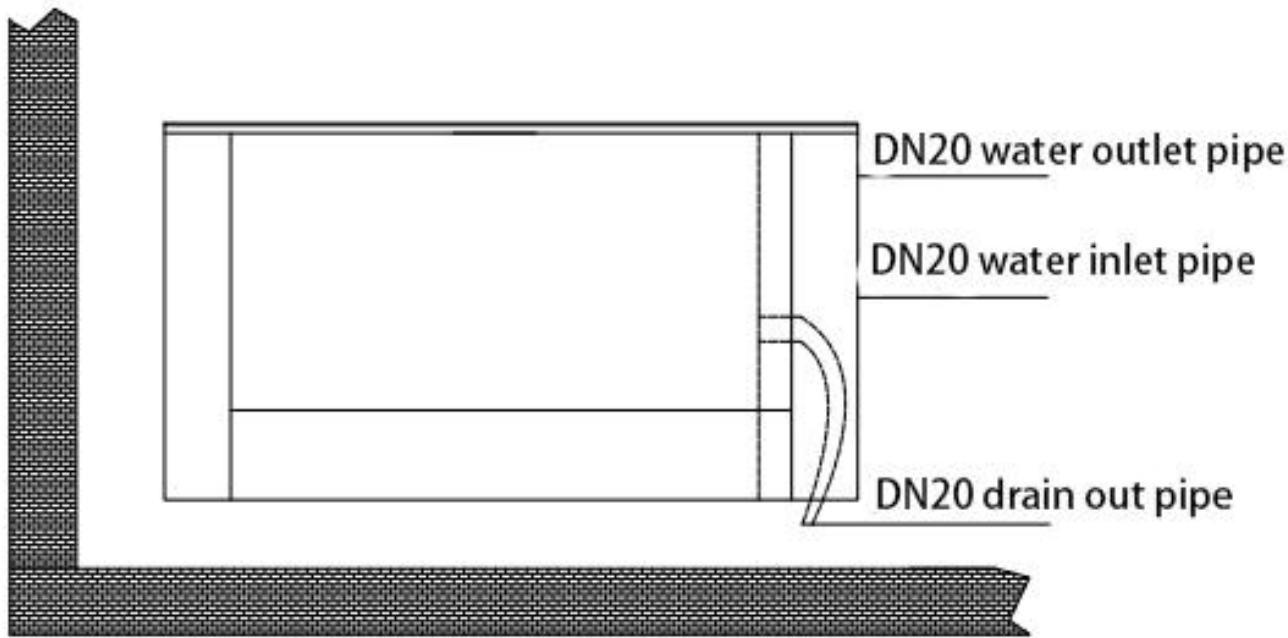
Vertical installed:

If vertical installation, there are 3 different ways for connect the water pipe, you can choose the way you like.

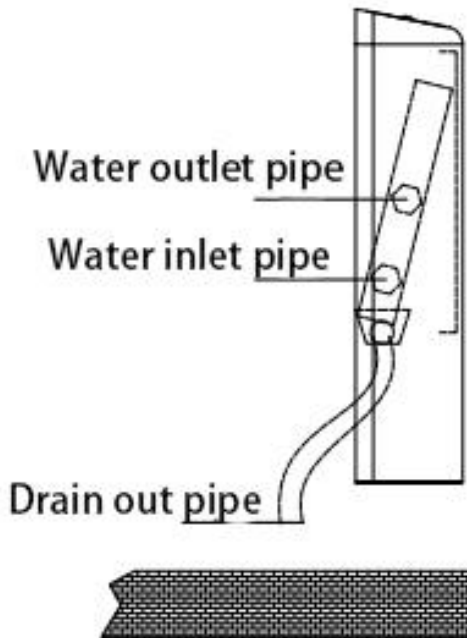


- 01. Right/left side
- 02. Back side
- 03. Bottom side

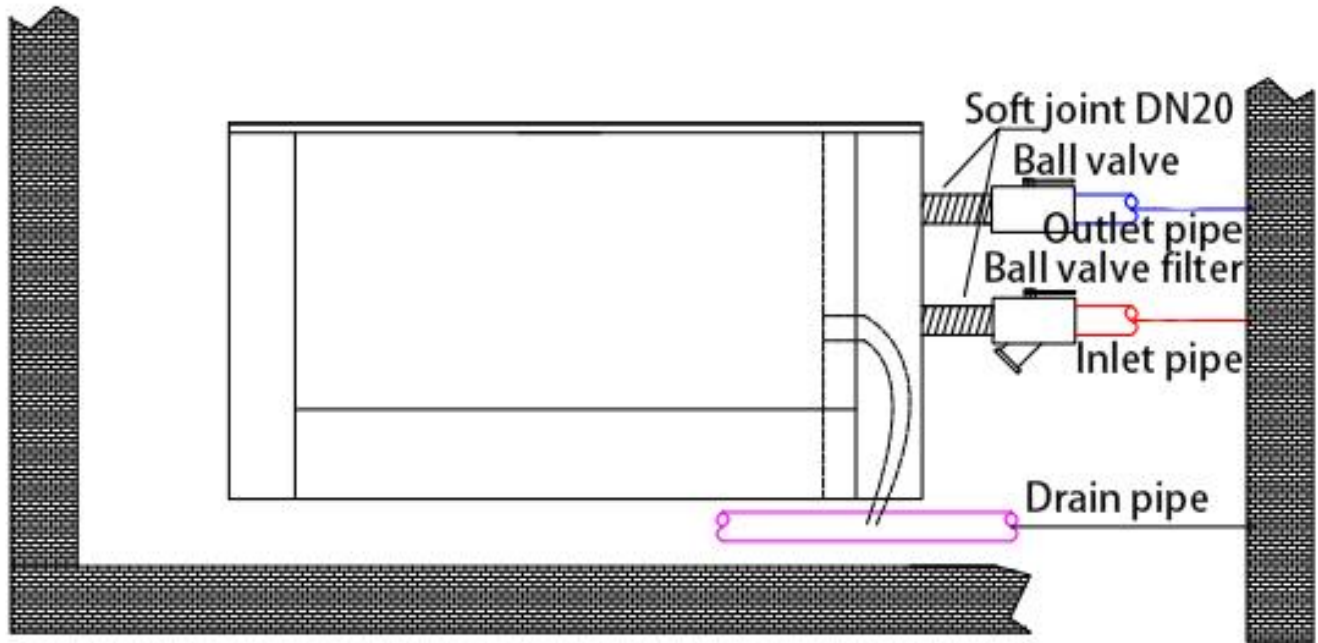
Remark
Red marked - water inlet pipe
Blue marked - water outlet pipe



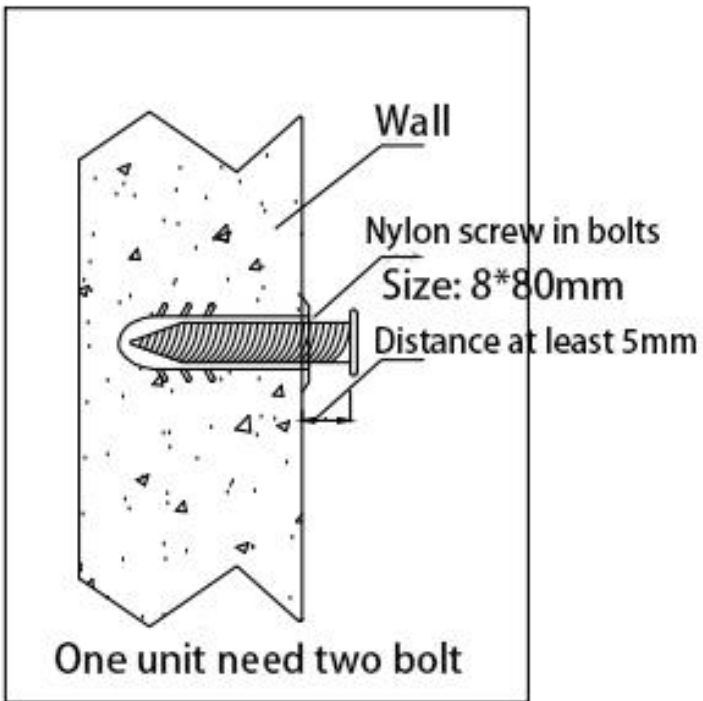
Waill hanging installation front view



Wall hanging installation side view



Water pipe connection



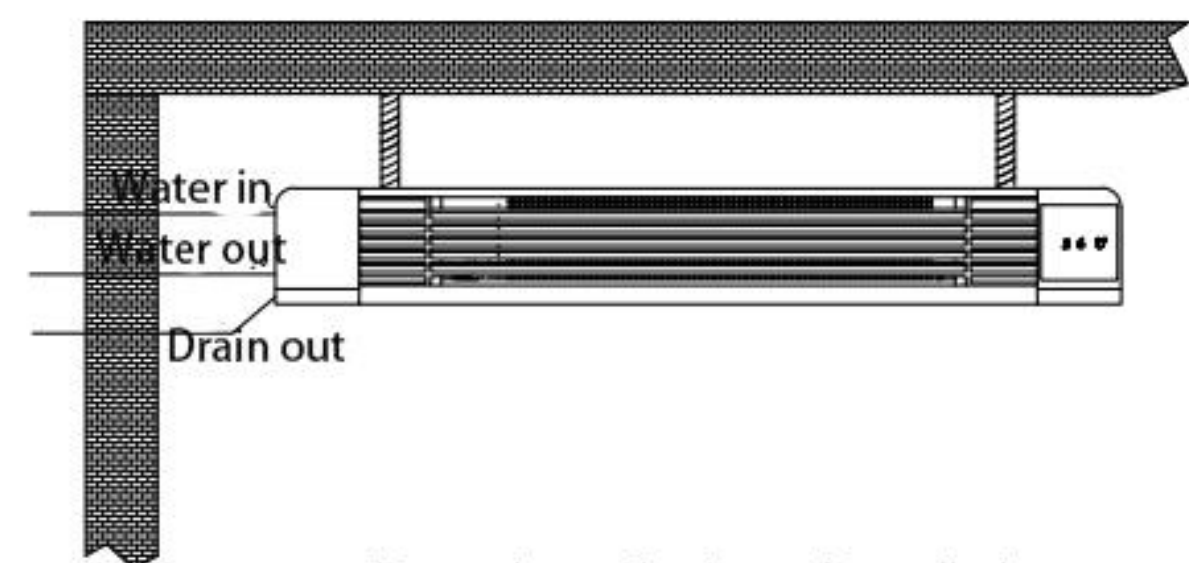
Wall hanging installtion drawing

Vertical installation 02: You need to remove the side panel and after connected the water pipe install it again.

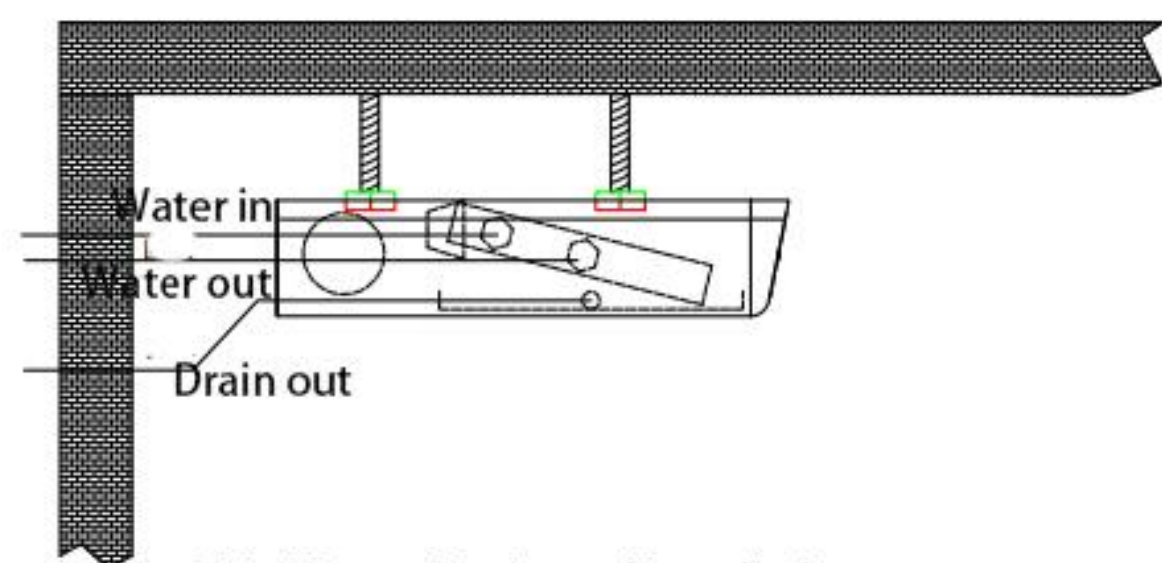
Vertical installation 03: There is the small knock-out on the bottom panel, if needed it can be removed.

Installation Instruction

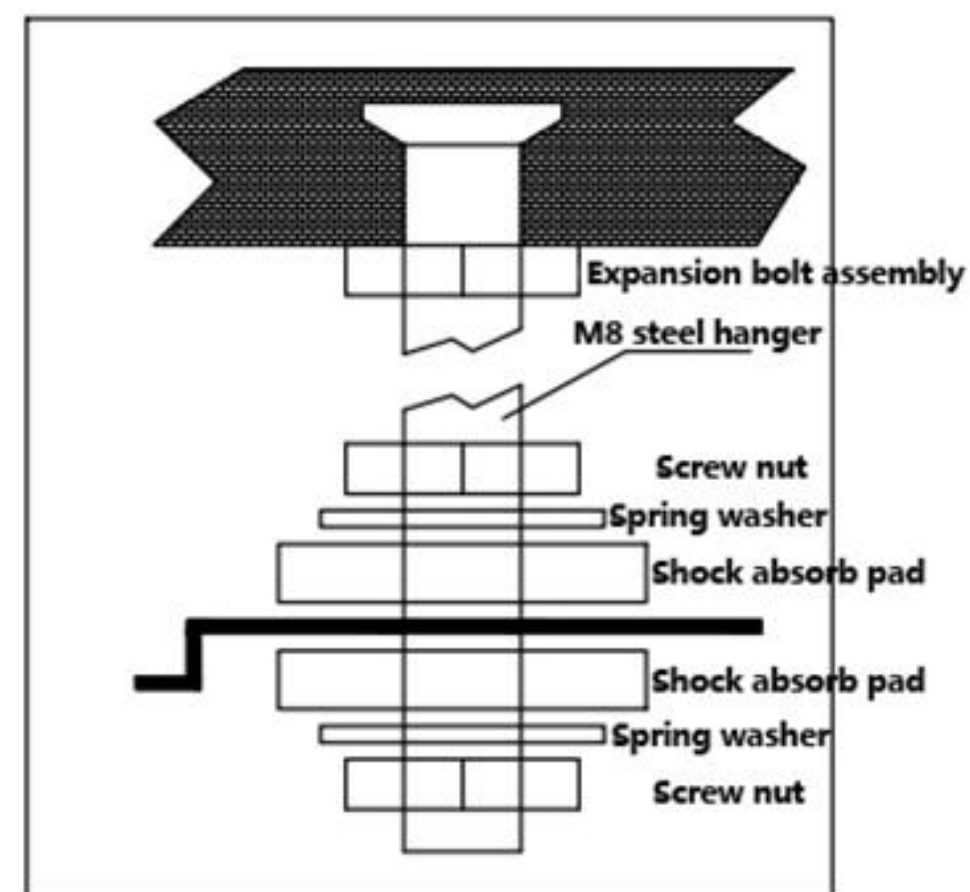
Horizontal concealed:



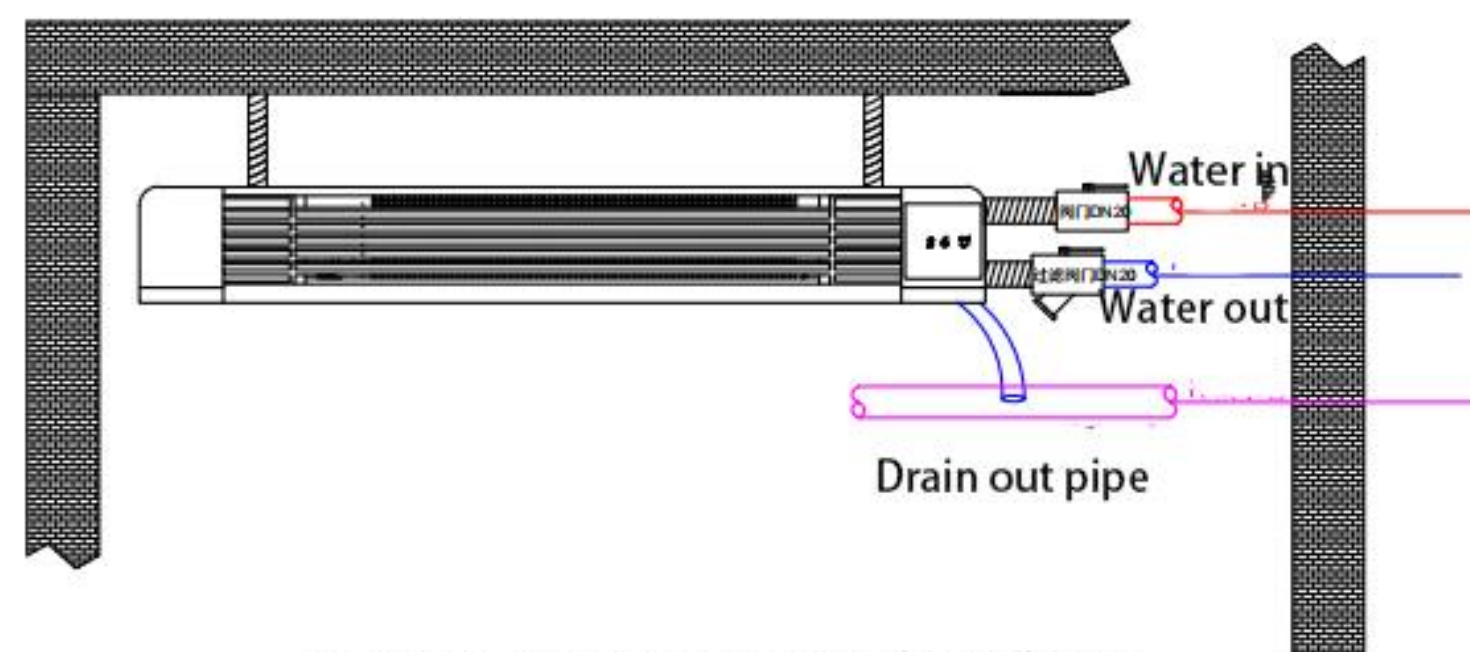
Front view of horizontal installation



Side View of horizontal installation



Installation anchor bolt

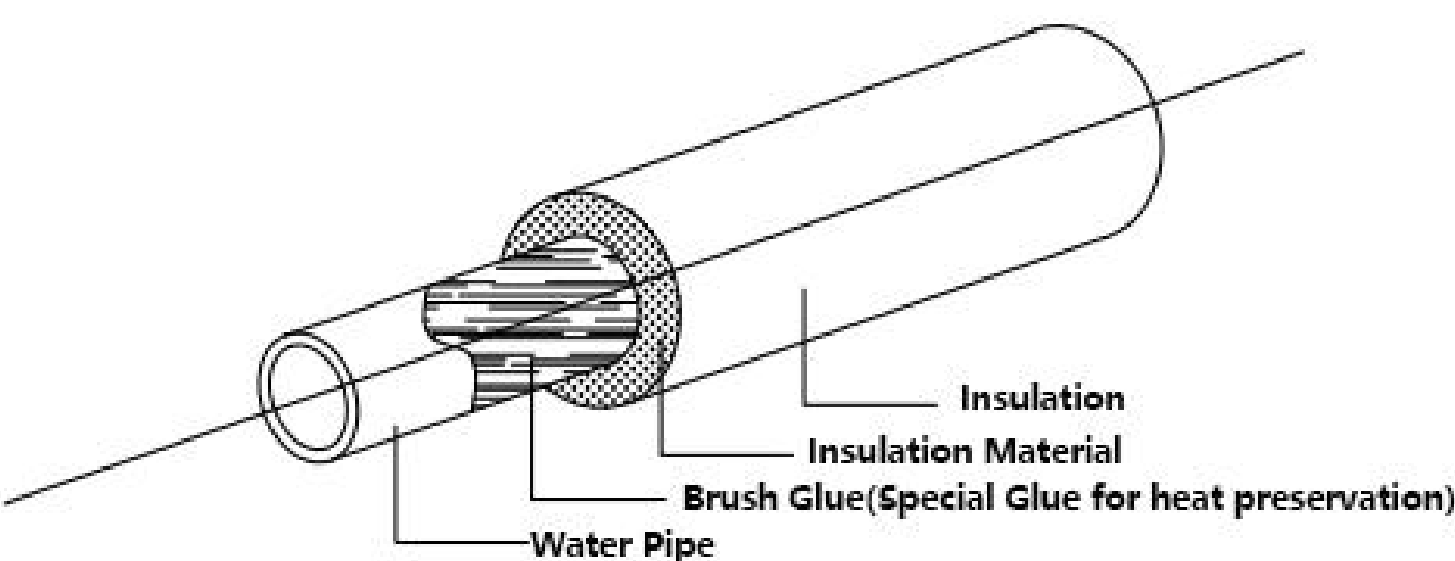


Water connection of horizontal installation

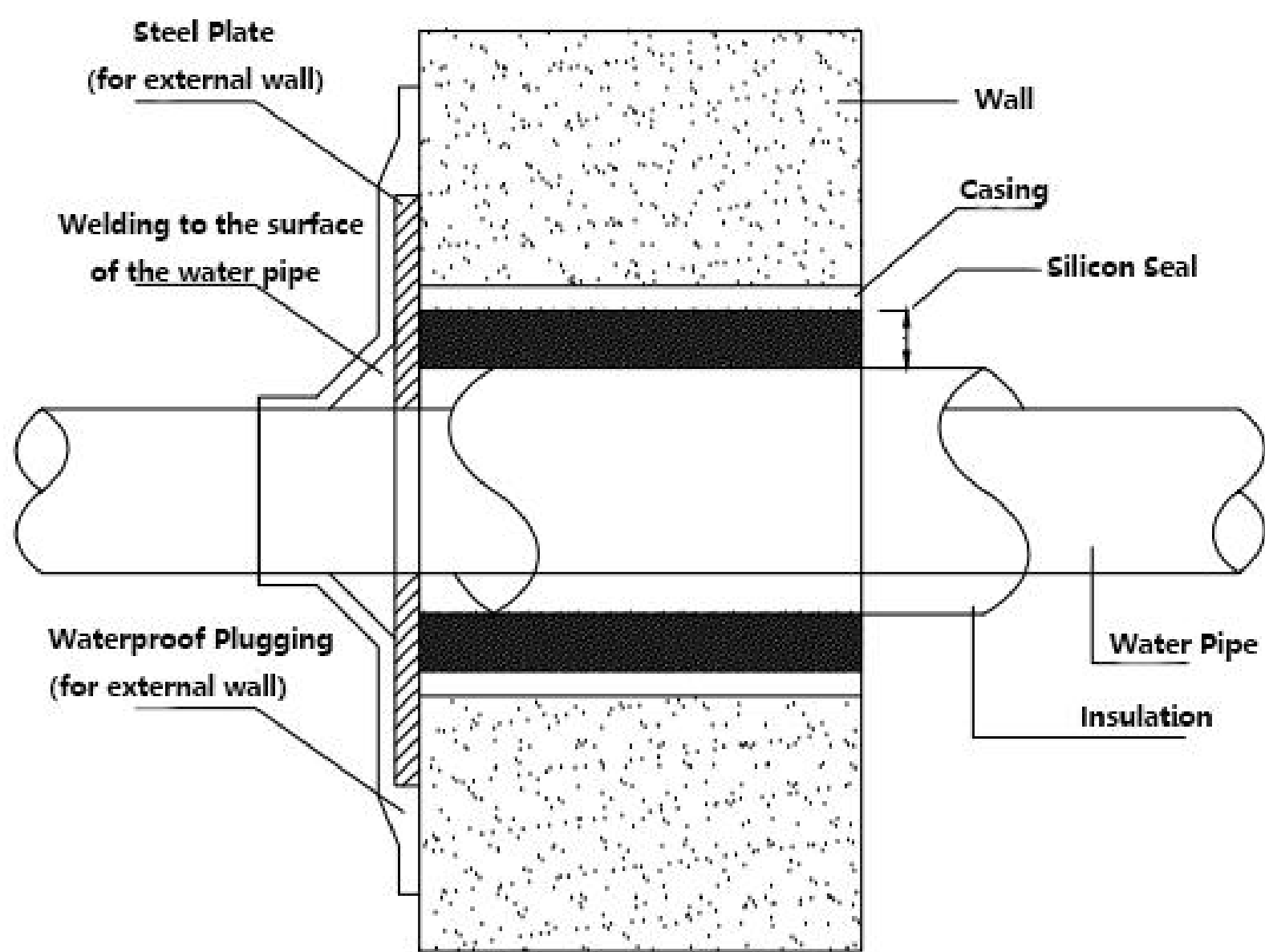
Installation instruction:

1. The four lifting points of the unit must keep the same level when horizontally installed so as not to affect the effect of the machine.
2. The machine should be installed with water connection pipe according to the pipeline installation diagram. The main condensate pipeline should be slightly lower than the machine to facilitate drainage and prevent backflow.
3. The inlet and outlet pipes should be equipped with soft joint and valves to facilitate adjustment of water flow and maintenance. The water inlet pipe should be installed with a filter valve to filter impurities in the water to avoid blockage of the internal pipeline of the unit.
4. Be sure to note that the effective diameter of the inlet and return pipes is greater than the inner diameter of the machine interface.
5. Power supply for the unit: AC190~250v, 50/60Hz. Note that the voltage is within a safe range, and a safety grounding wire should be installed on the shell of the unit.
6. When the unit uses the condensate drain pipe, pay attention to whether the installation method of the machine and the drain pipe used are correct.

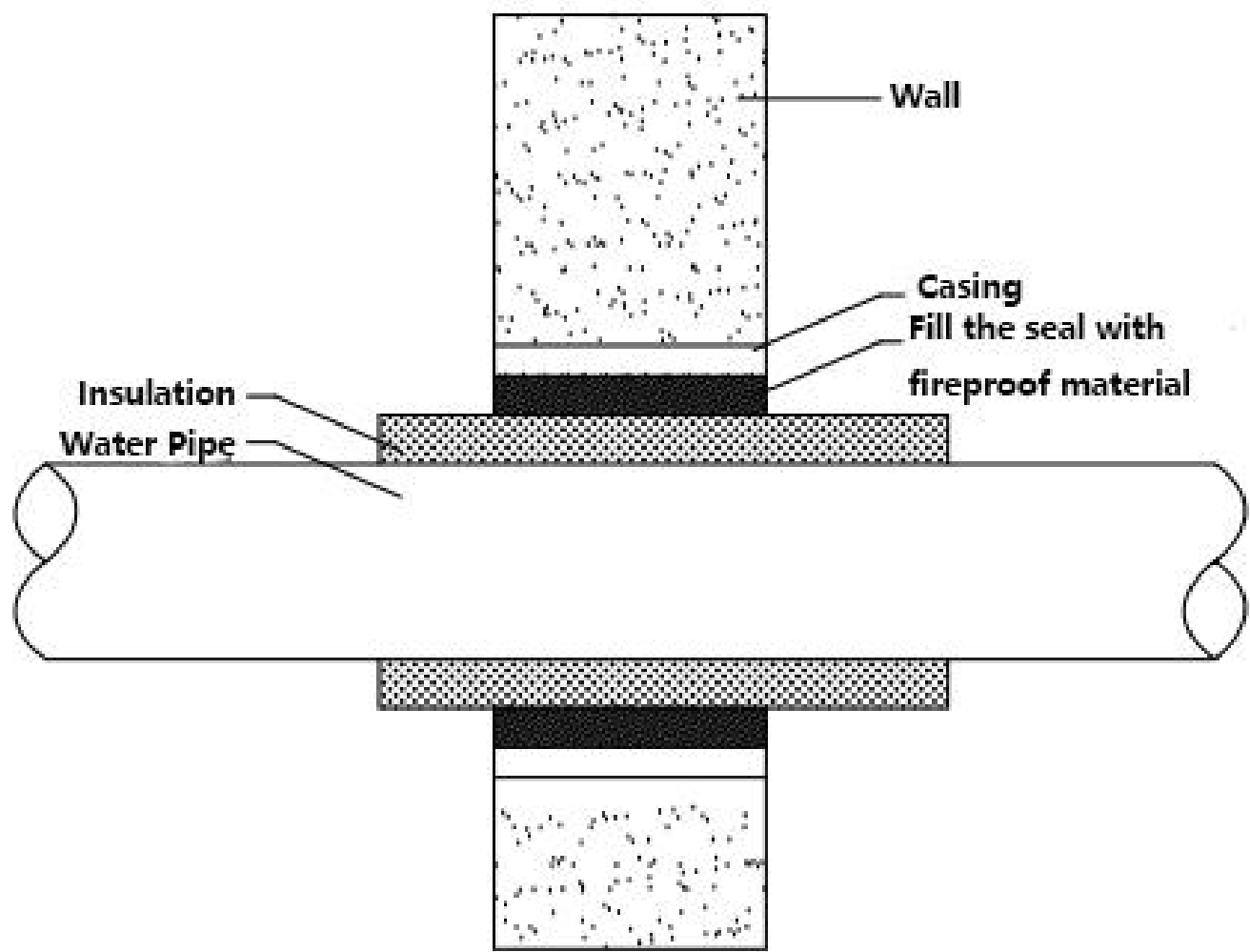
Water Pipe Run Through The Wall



Drawing of Water Pipe Insulation



Water Pipe Run Through the External Wall



Water Pipe Run Through the Internal Wall



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