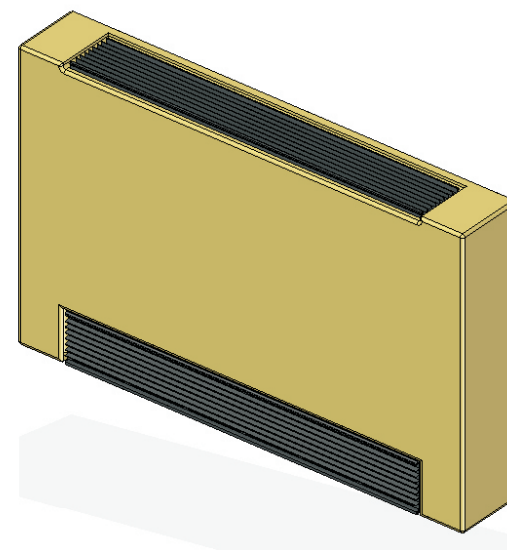


Floor type fan coil

USER MANUAL

Thanks for Your Choice



MODEL:ESDFC-3

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1. Safety Precautions



**ELECTRICAL POWER MUST BE SWITCHED OFF BEFORE
STARTING ANY WORK ON JUNCTION BOXES**

The aim of this manual is to provide instructions for installation, commissioning, operation.

WARNING!

The installation, commissioning and maintenance of these machines should be performed by qualified personnel having a good knowledge of standards and local regulations, as well as experience of this type of equipment.

WARNING!

Any wiring produced on site must comply with local electrical regulations.

WARNING!

Ensure that the electrical supply corresponds to the specification indicated on the unit's maker's plate before proceeding with the connection in accordance with the wiring diagram supplied.

WARNING!

The unit must be EARTHED to avoid any risks caused by insulation defects.

WARNING!

No wiring must come in contact with the heat source or the fan rotating parts.

WARNING!

Preparation for shutting down the unit for a prolonged period if the installation does not contain glycol, the evaporator and the chilled water pipes need to be carefully and completely drained of water

TAKE CARE!

The unit should be handled using lifting and handling equipment appropriate to the unit's size and weight.

TAKE CARE!

It is forbidden to start any work on the electrical components without switching off the electrical supply to the unit.

TAKE CARE!

It is forbidden to start any work on the electrical components if water or high humidity is present on the installation site.

TAKE CARE!

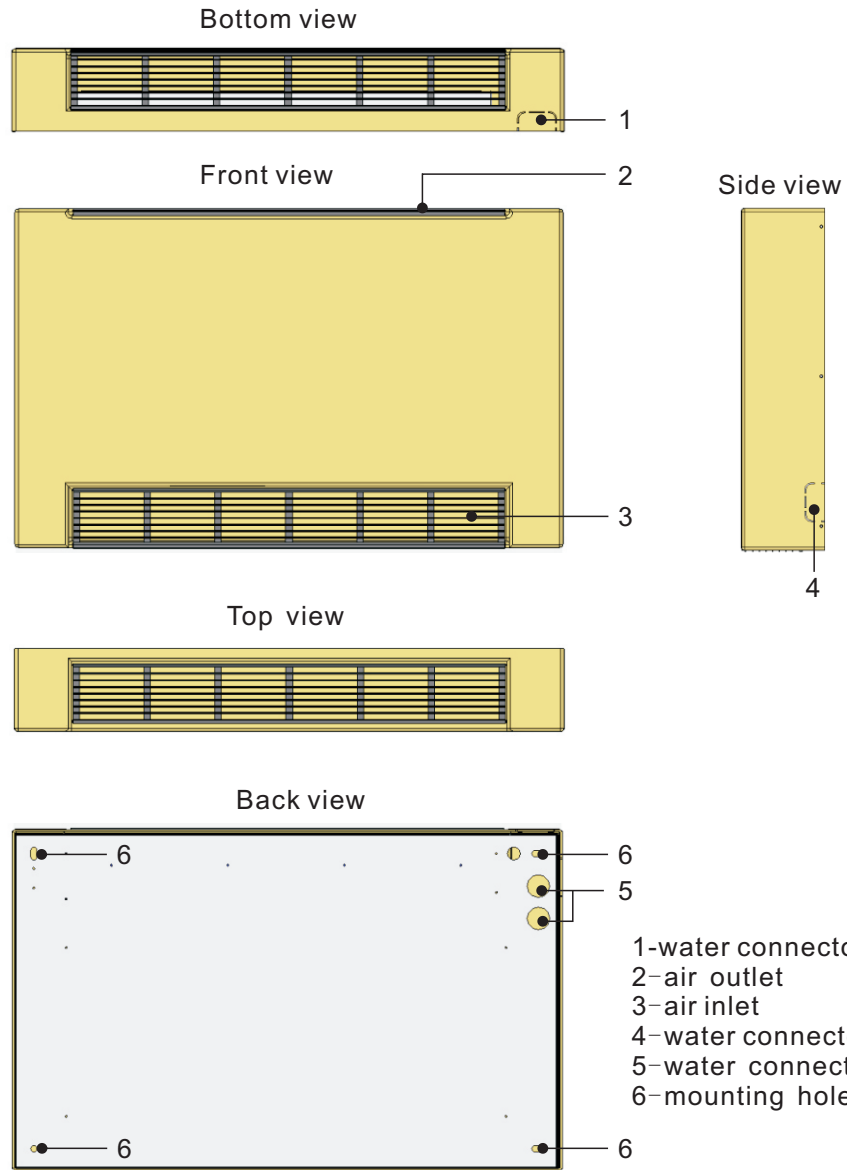
When the unit is being connected, ensure that no impurities are introduced into the pipe work and the water circuits.

TAKE CARE!

A mesh filter must be provided on the hydraulic pump and in exchanger water inlets.

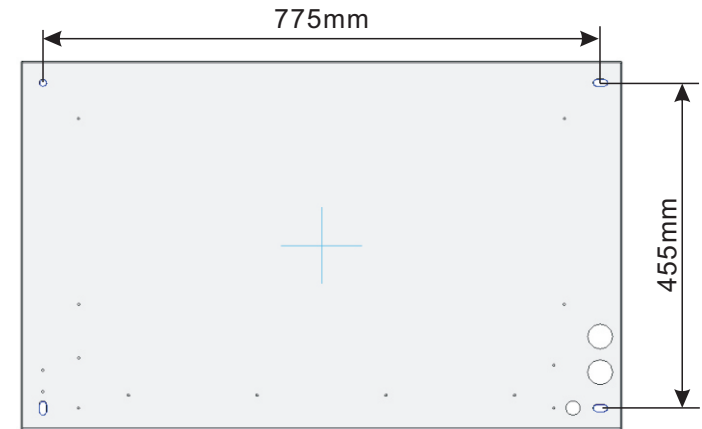
The manufacturer's warranty will not apply if the installation recommendations listed in this manual are not followed.

2. Structure

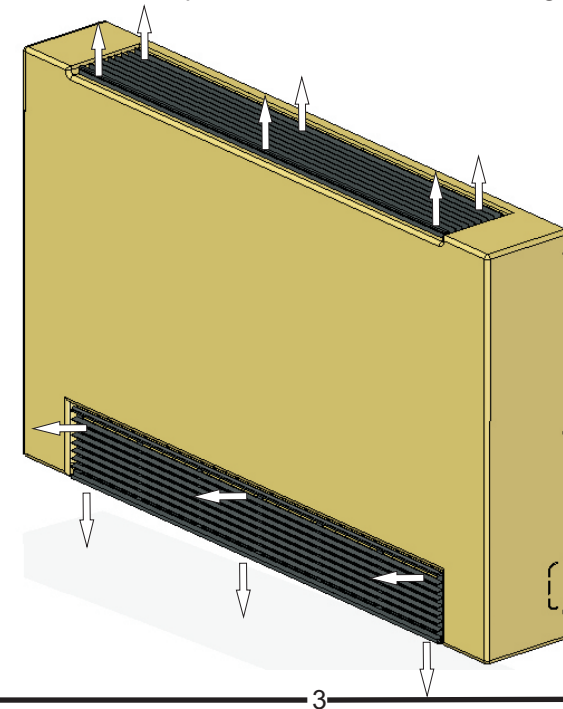


3. Installation

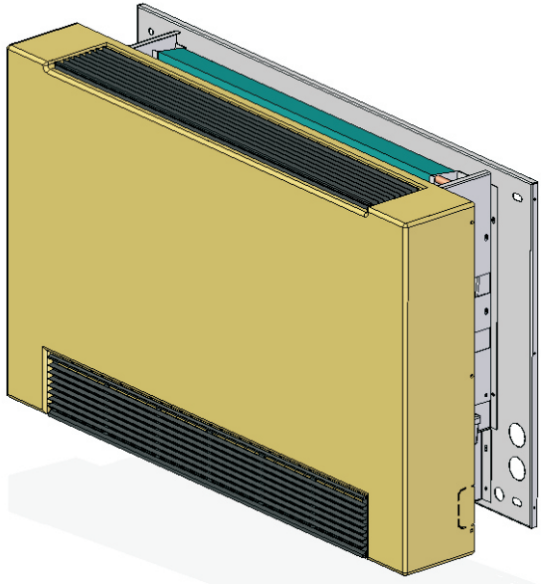
1, Drill four holes on the wall according to four mounting holes of installation plate. and then plug four expansion bolt to these holes in the wall.



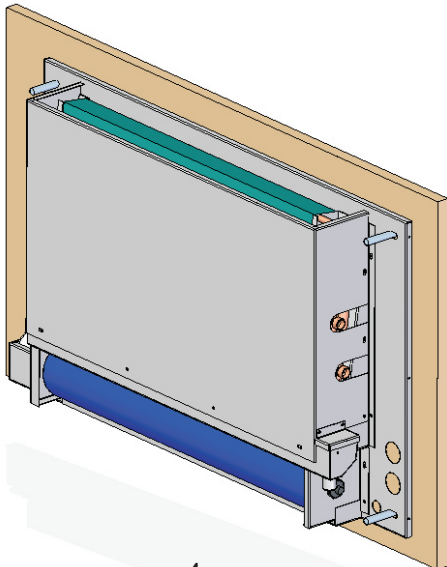
2, Loose all screws (six pieces each side, as the figure shows)



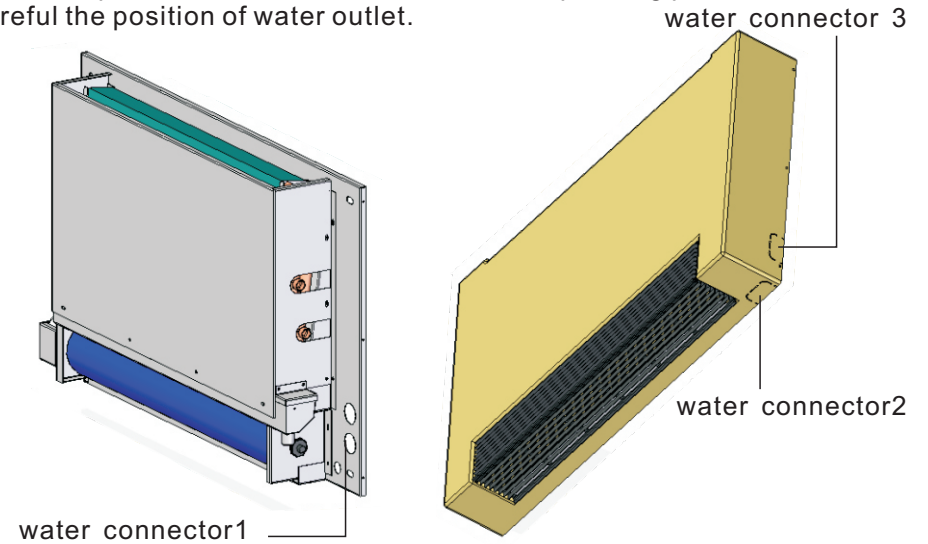
3, Pull the front panel out carefully, to make it separate from installation panel



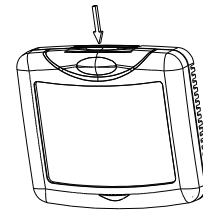
4, Aim the mounting hole of installation panel at expansion bolts and joint to the wall. then screw up the nut.



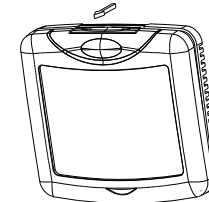
Connect the water pipe in your required direction. There are three directions for you choose. back, right and bottom, it as following figure show; if you want to connect the water pipe in right direction or bottom direction, please cut the baffle out from corresponding position, and be careful the position of water outlet.



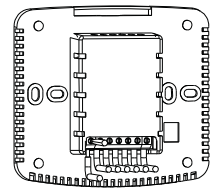
Installed the wire controller on the wall, installation method is as following:



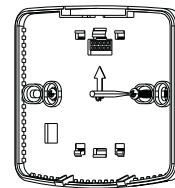
1. Open the clip



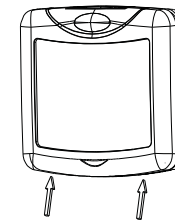
2. Take table



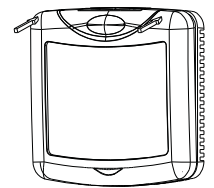
3. Wiring



4. Fix thermostat with two bolts



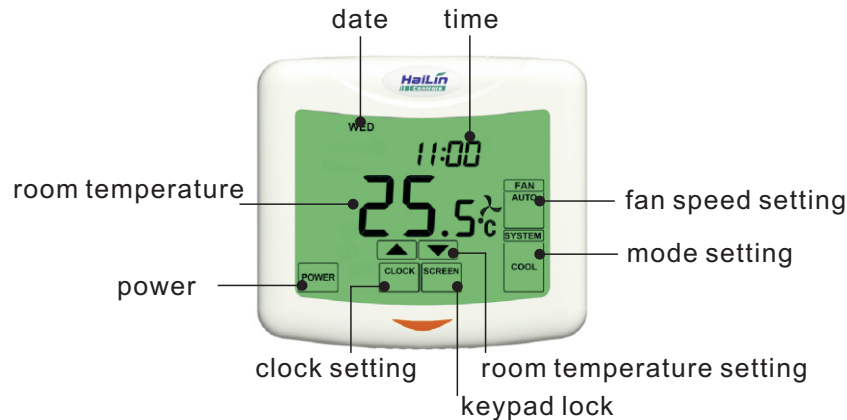
5. Plug in cable



6. Lock surface and finished

4.Controller

Controller



OPERATION

☞ On/Off: Press **"POWER"** to turn on, press **"POWER"** again to turn off thermostat and its output.

☞ Setting temperature: When power is on, press **"▼"** to reduce set-point, press **"▲"** to raise set-point. (0.5°C changed each press)

☞ Mode Selection: Press **"SYSTEM"** to change system working in cooling **"COOL"**, heating **"HEAT"** or ventilation **"VENT"** mode. The ventilation function is invalid for HL2018Y/YE.

☞ Fan Speed Selection: Press **"FAN"** to change fan speed among **"HIGH"**, **"MED"**, **"LOW"** or **"AUTO"**.

In mode **"AUTO"**, the fan-speed changed automatically. Auto LOW-speed When the difference between room-temperature and setting-temperature exceed 1? , Auto MED-speed When exceed 2? , Auto HI-speed When exceed 3? .

☞ Control Damper: The damper will be open when (1) room temperature is higher than set-point in cooling; (2) room temperature is lower than set-point in heating, Otherwise the damper will be closed.

☞ Screen Clean: Press **"SCREEN"** with it flash and display 30s count down, then all buttons will be clocked. The screen can be cleaned.

CLOCK CALIBRATION (-T, -T4)

☞ Press **"CLOCK"** till to display "hh:mm" and "hh" flash, press **"▲"** or **"▼"** to adjust hour, press **"CLOCK"**, "mm" flash, press **"▲"** or **"▼"** to adjust minute; Press **"CLOCK"**, "week" flash, press **"▲"** or **"▼"** to adjust Mon to Sun.

TIMER ON/OFF FUNCTION (-T)

☞ Open/Close the thermostat according to the time user set in advance.

TIMER FUNCTION SETTING (-T)

☞ Timer on: Press **"CLOCK"**, till to display "△" with "TIMER ON" and "hh" both flash, press **"▲"** or **"▼"** to adjust hour. Press **"CLOCK"**, "mm" flash, press **"▲"** or **"▼"** to adjust minute.

☞ Timer off: Press **"CLOCK"**, till to display "△" with "TIMER OFF" and "hh" both flash, press **"▲"** or **"▼"** to adjust hour. Press **"CLOCK"**, "mm" flash, press **"▲"** or **"▼"** to adjust minute.


☞ Canceling timer on: Press **"CLOCK"**, till to display "△" with "TIMER ON" and "hh" both flash, press **"▲"** or **"▼"** to adjust hour to "--:--". Press **"CLOCK"**, "mm" flash, press **"▲"** or **"▼"** to adjust minute to "--:--".


☞ Canceling timer off: Press **"CLOCK"**, till to display "△" with "TIMER ON" and "hh" both flash, press **"▲"** or **"▼"** to adjust hour to "--:--". Press **"CLOCK"** and "mm" flash, press **"▲"** or **"▼"** to adjust minute to "--:--".

FOUR EVENTS PROGRAMMING FUNCTION (-T4)

☞ Divide each day of one week (7 days) or according to working day and weekday into four events, set the temperature respectively to satisfy different room temperature requirements in different time.

LOCK KEYPAD FUNCTION (Option)

☞ LOCK: Thermostat will lock the keypad automatically under the condition of nobody operating for 60 seconds, and display “”, forbid anyone else to operate.

☞ UNLOCK: Press fan speed key for 5 seconds to unlock, “” disappear.

AUTO RECOVERY (Option)

☞ When the thermostat is at ON status for 6 seconds, if power cut, it will return back to running automatically with the status how it is one minute ago after power coming back.

☞ When the thermostat is at OFF status for 6 seconds, if power cut, it will keep OFF status after power coming back.


LOW TEMPERATURE PROTECTION (FROST PROTECTION)

☞ When the low temperature protection is valid, thermostat turns off and the room temperature is lower than 5? , it will be turned on automatically and indicating “**AUTO**”, HL2018DA/DAE/DB/DBE/DA2/DA2E/DB2/DB2E Fan-coil runs with high speed and opens the FCU valve (HL2018FCV2/FCV2E opens the heating valve); HL2018Y/YE will open damper; It will turn off when temperature is more than 7? .

LOW TEMPERATURE PROTECTION PARAMETER SETTING

☞ When the thermostat is on, press “**SYSTEM**” and holding for 5 seconds, it displays “On” or “0F”, then press “?” or “?” to adjust this parameter. “0F” indicates invalid low temperature protection; “On” indicates valid low temperature protection function. The default is “0F”.

ALARM

☞ Trouble appears for sensor, fan and valve will be turned off by thermostat, as indicating “” and “E1” or “E2”.

E1: alarming for short circuit of sensor;

E2: alarming for open circuit of sensor;

“HI” indicated when temp. is more than 55? , “LO” indicated if temp. is lower than 0? .

Remote Controller

Dimension

Dimension: 45x115x25mm(WXHXD)

Battery Spec: 2xAAA batteries

Operations:

On/Off: Press “On/Off” button to switch the thermostat on/off.

Temperature setting: (Temperature setting range is 18-30°C)

Press “TEMP +”, the temperature increase 1°C

Press “TEMP -”, the temperature decrease 1°C

Timer On/Off setting: (Only used for the thermostat which has the timer On/Off function)

Press “Time”, Enable/Disable timer on/off

Press “Time +”, The time of the timer increase by hour

Press “Time -”, The time of the timer decrease by hour

Fan Speed Selections:

Press “Speed”, and display “ c”, set the fan running at high speed

Press “Speed”, and display “ c”, set the fan running at medium speed

Press “Speed”, and display “ c”, set the fan running at low speed

Press “Speed”, and display “AUTO”, set the fan running mode at auto mode

Mode Selections:

Press “MODE”, and display “ ”, set work mode in heating mode

Press “MODE” again, and display “ ”, set work mode in cooling mode

Press “MODE” again, and display “ ”, set work mode in ventilation mode

Sleep:

Press “SLEEP” button, then thermostat gets into on/off sleep function.

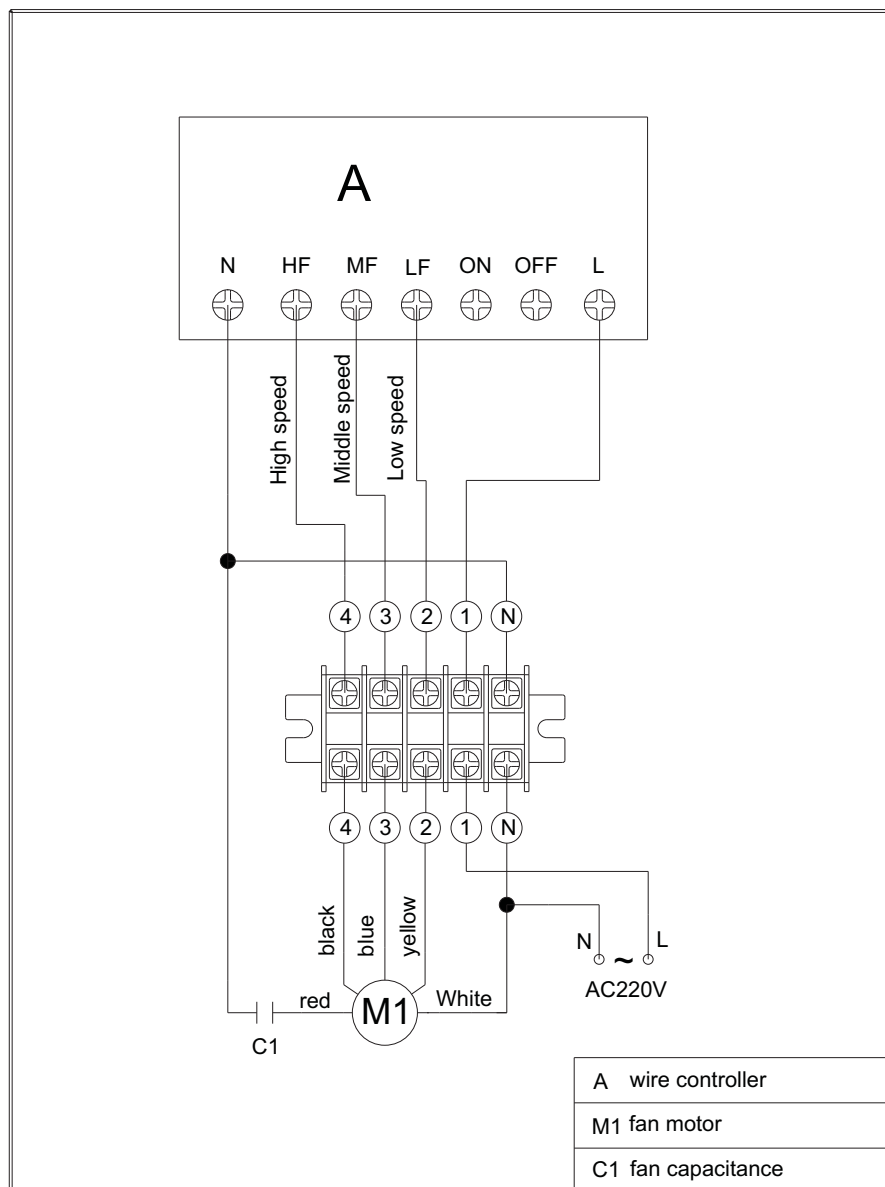
Attention:

Please note the polarity of the battery;

Take the battery out if it is not in use for a long time.

5. Wiring Diagram

MODEL:ESDFC-3

**Note.**