

Intelligent Elevator Shaft Cooling Fan

Product installation manual



HANGZHOU HESHAN TECH CO., LTD

Dear User:

Thank you very much for choosing "Heshan" brand intelligent elevator shaft cooling fan. For more safe and convenient use of the intelligent elevator shaft cooling fan, please read this manual carefully, and operate according to the instructions of this manual.

We will strive to meet the individual needs of customers, if there are small changes of products, it will not be notified again in the manual.

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This manual is for below model:

JF-200 JF-300

1.Product Description

The shaft cooling fan is mainly composed of three parts: high temperature resistant fan, intelligent control system and protective cover. The working principle is to collect the temperature of the shaft, and the fan runs automatically according to the preset program, thereby accelerating the air circulation inside and outside the shaft to achieve the purpose of cooling the inside of the shaft (or machine room).



JF-200



JF-300

2.Product Features

*Using mechanical ventilation, the wind speed has three options of automatic, high wind and low wind, and the work is stable and reliable.

*Intelligent control: The temperature can be set arbitrarily within the range of 20°C ~40°C. When the temperature reaches the upper limit of the set value, the fan starts to work, and when the temperature drops to the lower limit of the set value, it will automatically stop.

*Power-off memory function: After power-off, power on again can keep the original setting state and automatically start running.

3. Technical Data

Model	Power Supply	Dimensions (m)	Outer diameter of air outlet (m)	Weight (kg)	Mode	Power (W)	Current (A)	Air Flow (m ³ /h)	Noise dB (A)
JF-200	220V/50Hz	310*310*68	222	3.0	High wind	66	0.31	660	60
					Low wind	28	0.13	580	57
JF-300	220V/50Hz	430*430*90	336	5.0	High wind	160	0.73	2050	68
					Low wind	110	0.50	1480	60

Recommended wall opening diameter:

① JF-200

The diameter of the air outlet cylinder of the fan is 222mm, the diameter of the hood with a cap is 242mm, and the recommended diameter of the fan hole is 250mm;

Convection hole opening diameter is 250mm;

② JF-300

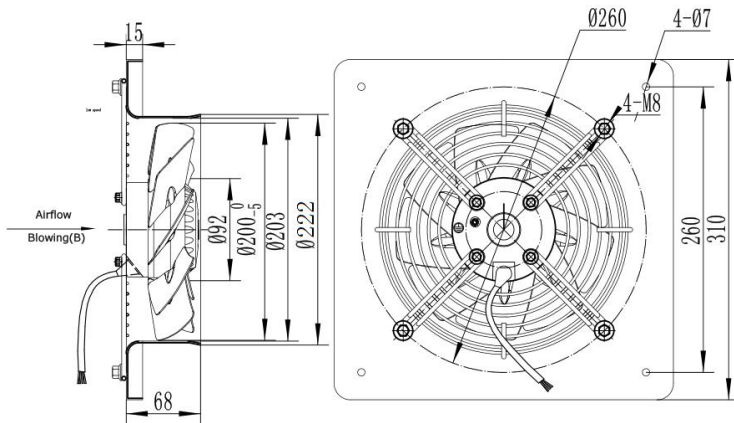
The diameter of the air outlet cylinder of the fan is 333mm, the diameter of the hood with a cap is 336mm, and the recommended diameter of the fan hole is 340-350mm;

Convection hole opening diameter is 250mm;

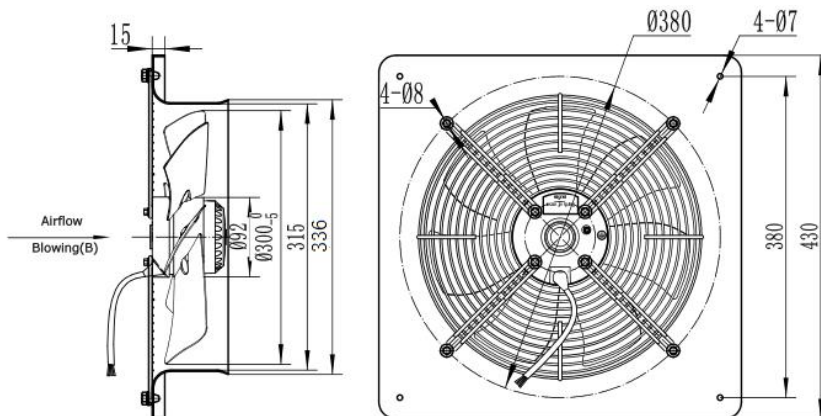
4.Main components and Description

1).Axial Fan

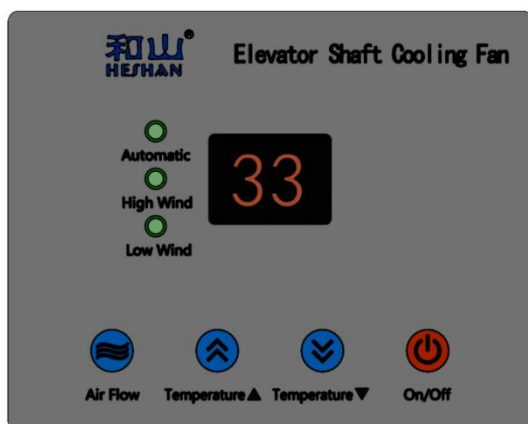
①JF-200



②JF-300



2).Intelligent Controller



*Size (L*W*H) :19 * 14.5 * 6(cm)

***Function and operation instructions**

① “On/Off” key: The fan turns on/off every time it is pressed.

② "Wind speed" key: Press this key to select the working mode of the cooling fan (automatic, high wind, low wind). Each time you press the button, the corresponding indicator light will be on.

Automatic mode: According to the relationship between the ambient temperature and the set temperature, the automatic switching operation between high and low wind will be performed - the device will automatically turn on above the set temperature, and the fan will run in the low wind mode when the set temperature is higher than this set temperature but not more than 3°C ; When the temperature is greater than 5°C, the fan will turn on the high wind mode; When the temperature is between 3°C and 5°C above the set temperature, the fan will keep the original operating mode unchanged;

High wind mode: when the set temperature is reached, start high wind operation;

Low wind mode: when the set temperature is reached, start low wind operation.

③ “Temperature▲” key:

It is used to set the temperature value. Each time you press this key, the temperature setting will increase by one degree (upper limit is 40°C).

④ “Temperature▼” key:

It is used to set the temperature value. Each time you press this key, the temperature setting will decrease by one degree (the lower limit is 20° C).

3)Stainless Steel Protective Cover



Protective cover with hood



Back of protective cover

*The protective cover with a hemispherical hood is generally installed outdoors to prevent foreign objects such as rain, snow, dust, mosquitoes, flies, and rats from entering the room.



Flat shield

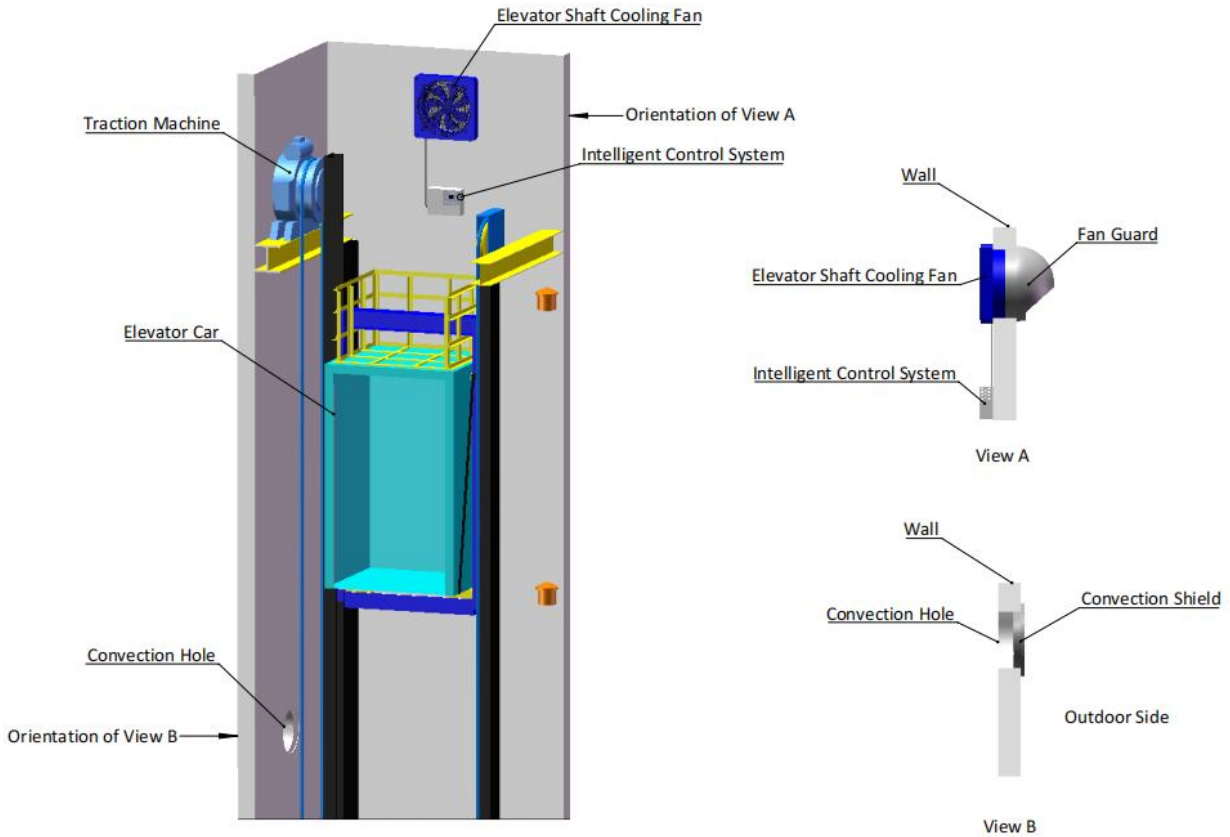


Back of protective cover

*Flat shield is generally used for convection hole protection.

5. Installation Notes

1) Installation diagram:

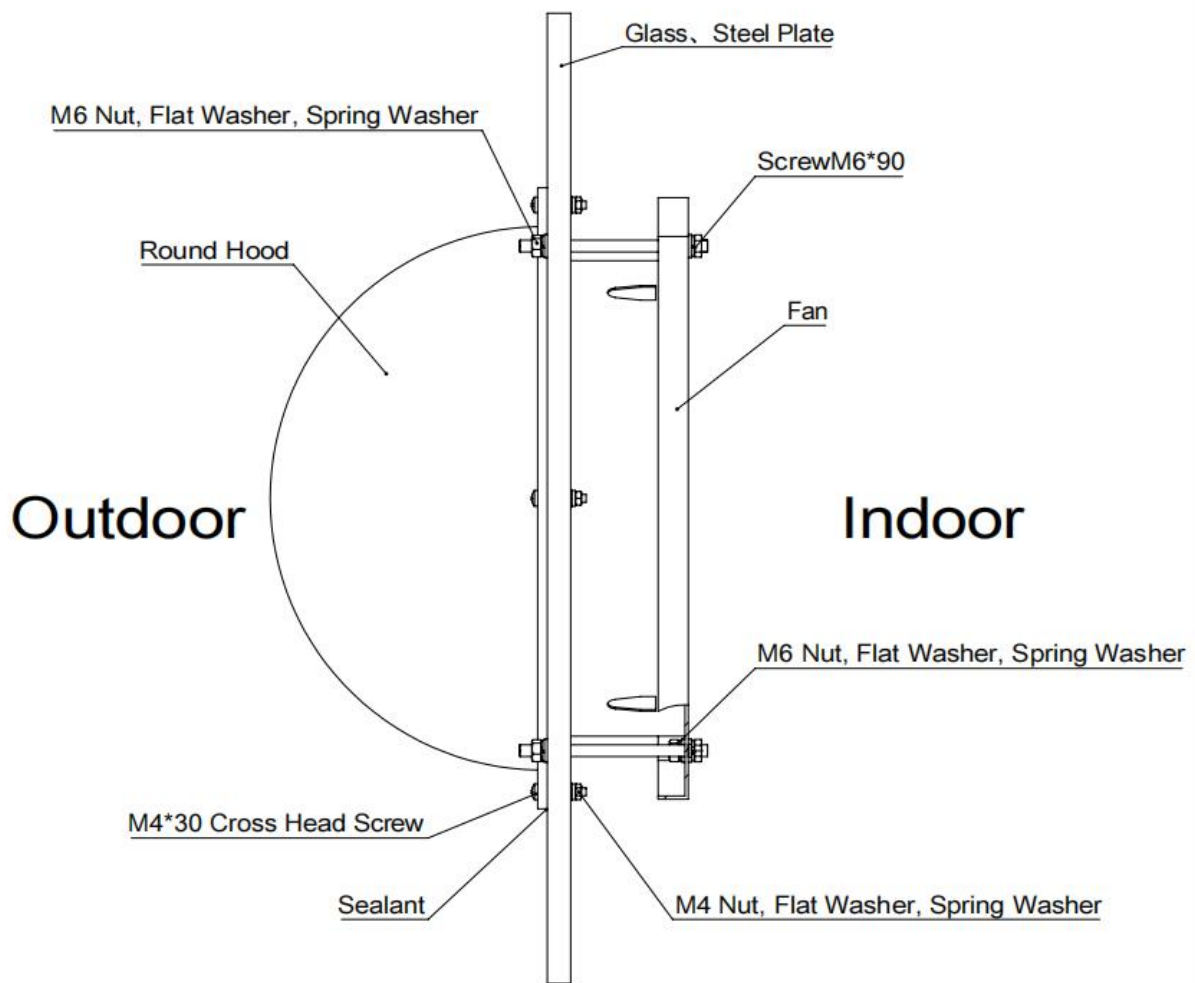


2) Install the fan

For conventional shafts, the fan is recommended to be installed on the lower edge of the beam at the top of the shaft wall. A hole needs to be made in the wall, and the diameter of the opening should refer to the performance parameter table; there are four mounting holes around the fan panel for fixing, and the appropriate fixing method should be selected according to the wall material:

Brick-concrete wall fixed with expansion screws;

Glass and metal walls are recommended to be fixed with bolts.



Glass/metal wall recommended installation method

3) Outdoor protective cover:

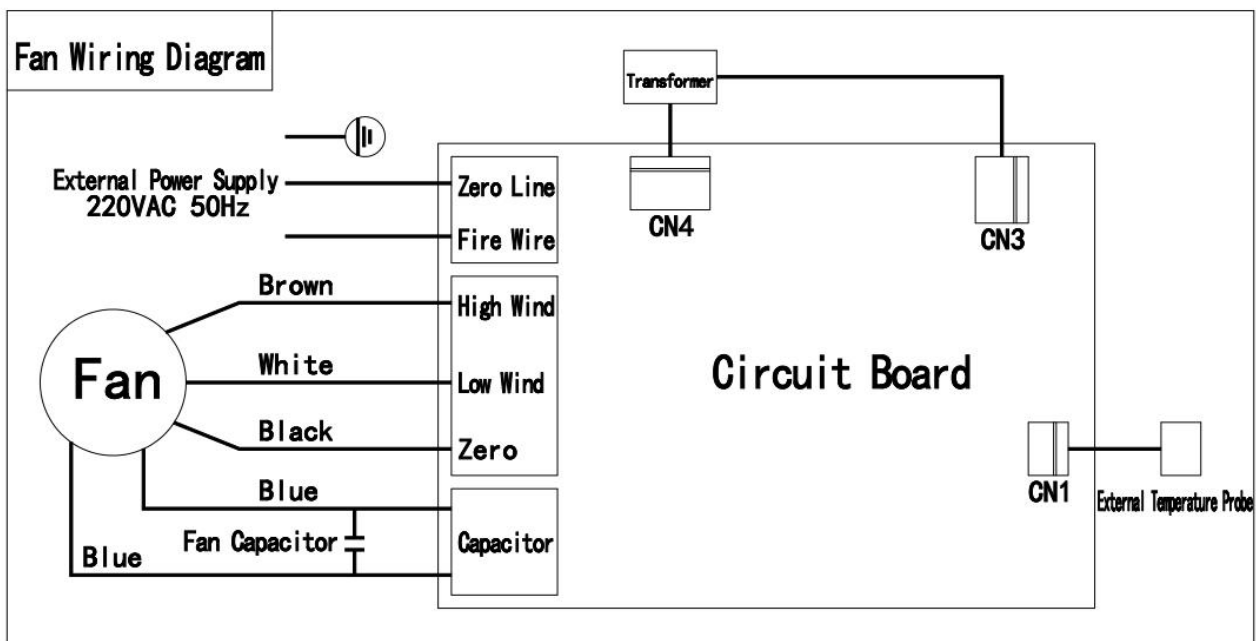
The protective cover with a hood is generally installed outdoors, on the other side of the fan, to prevent foreign objects such as rain, snow, dust, mosquitoes, flies, and rats from entering the room. Refer to the fan for the fixing method of the protective cover, select expansion screws or studs according to the wall material, and then seal and reinforce with structural adhesive after installation and fixation.

4) Set up convection holes and protective cover:

It is recommended to set a convection hole at the bottom of the shaft wall on the first floor of the elevator to form an air flow path of one in and one out with the fan hole above to speed up air circulation and achieve better cooling effect. It is recommended to use a flat shield for protection outside the convection hole.

5) Smart Control Box

Suspended installation is adopted, which is generally installed in an appropriate position below the fan. The fan leads and fan capacitors have been connected before leaving the factory. If re-wiring is required later, or the customer uses the intelligent control box to connect the fan purchased, please refer to the wiring diagram inside the box:



6. Maintenance and Care

1) The operating environment should be kept clean, there should be no obstructions or debris near the fan inlet and outlet, and the debris in the fan and installation holes should be removed regularly.

2) During operation, it is found that the fan has abnormal sound, the motor is seriously heated, the shell is electrified, the switch is tripped, and it cannot be started, etc., it should be stopped immediately for inspection. For safety reasons, maintenance is not allowed while the fan is running.

3) The fan motor adopts closed bearings, and it is not necessary to replace the lubricating oil during the working life. If the fan bearing installed by the customer is a non-enclosed bearing, it is necessary to regularly add lubricating grease that meets the requirements according to the maintenance requirements of the fan.

4) After the fan runs for a long time, the panel fixing screws may be loose, causing the risk of falling off, and it needs to be checked irregularly. Re-tighten it if it is loose.

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