

2020

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Maintenance-free and self-dust-removing AC

日高致力于成为设备温控专家

直流/交流机柜空调，热交换器，空调热交换一体机，直流半导体空调，工业油冷机，工业冷水机产品



Q: Why choose an air conditioner with negative pressure air intake for outside circulation?

A: Negative pressure air conditioner: maintenance-free and with a lifespan twice as long as that of ordinary air conditioners.

Schematic diagram of the air inlet and outlet of an ordinary cabinet ac



There is a lot of catkins in April and May.
The dust accumulated usually.



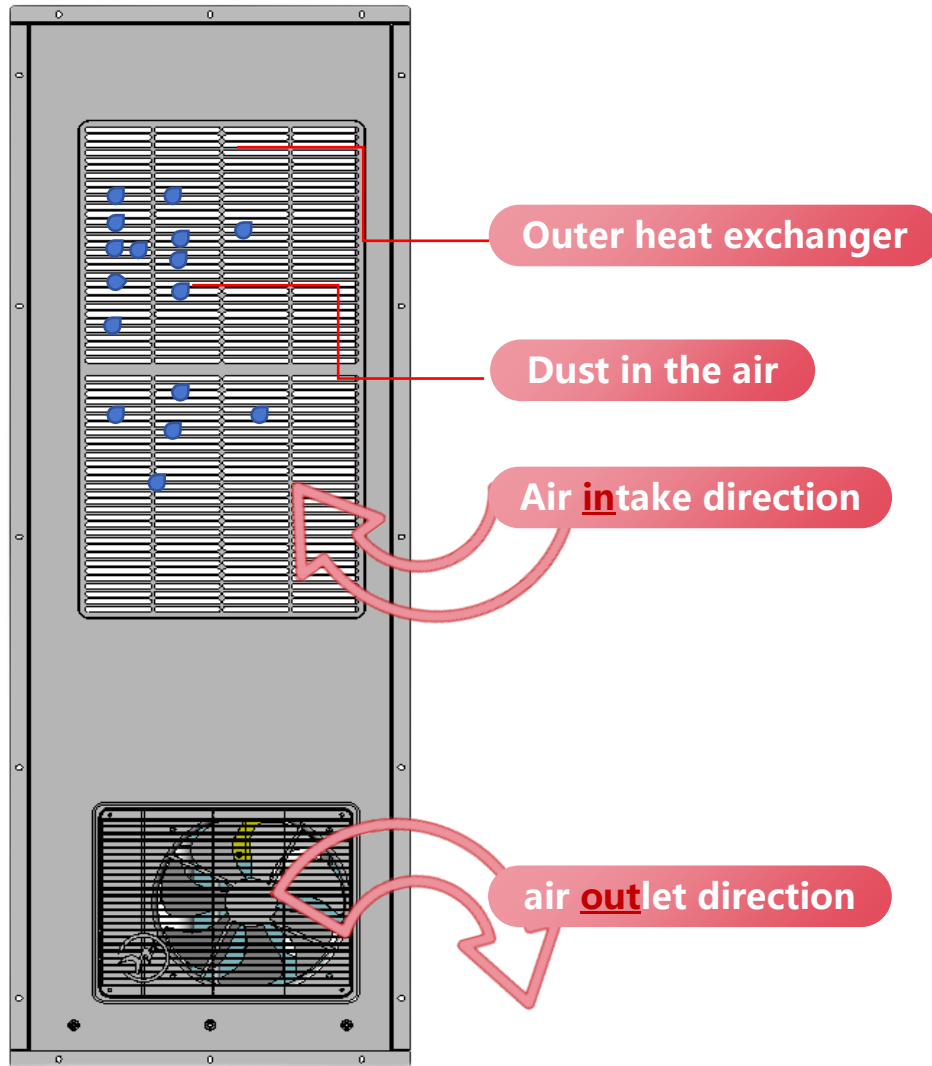
the reverse side of the heat exchanger

However reverse side



Much dust and unable to dissipate heat.

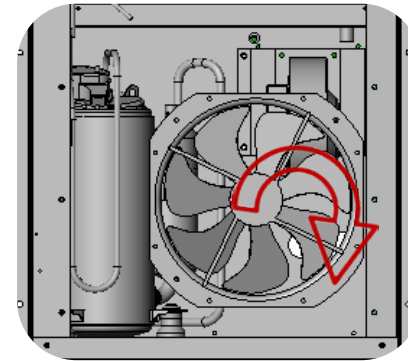
1-Maintenance-free self-dusting air conditioner—Negative pressure air intake



1、HIGAO air conditioner adopts the negative pressure air intake method.

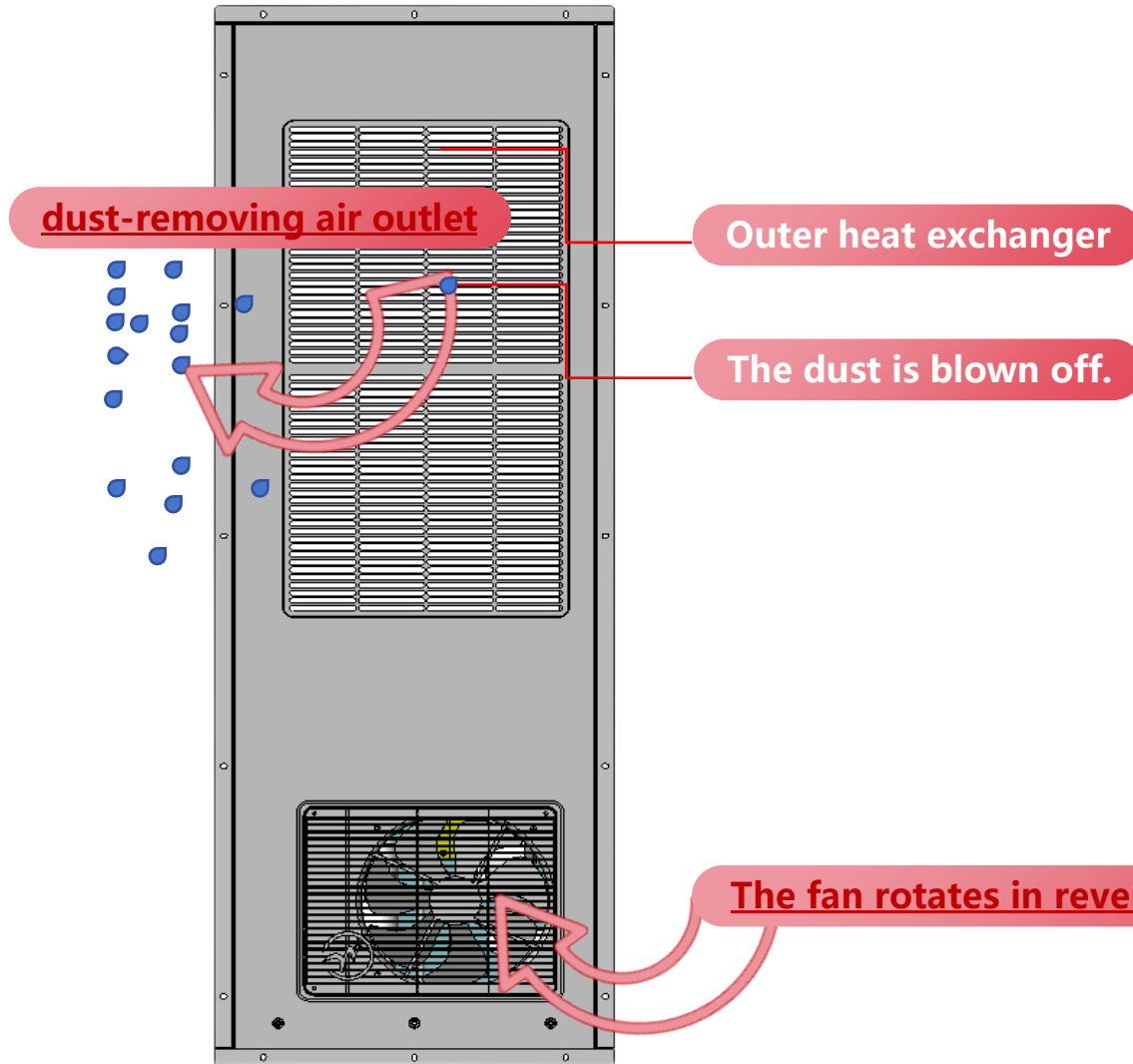
Dust and catkins are all on the outer surface of the heat exchanger and can't get inside the air - conditioner.

2、During heat exchange, the high - volume axial - flow fan is in a forward - rotation state.

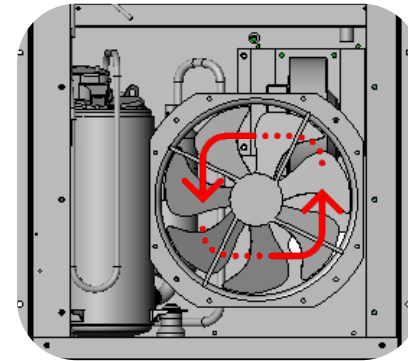


**Forward rotation state
air conditioner cooling**

2-Maintenance-free Fan rotates in reverse Automatic dust removal



1. The air conditioner operates normally for 24h and then enters the dust removal state for 3 to 5 minutes as set.
2. The axial-flow fan runs in reverse to blow off the dust and catkins on the surface of the heat exchanger.
3. The air conditioner enters the next normal operating state.



Reverse rotation state
Automatic dust removal in three minutes.

3-Maintenance-free Rainwater automatically washes away the dust.

the occasion of rain



- 1.The air conditioner adopts a heat exchanger with a fin pitch of 2.0mm.
2. When it rains, the rainwater further cleans the dust on the surface of the heat exchanger.
- 3.The above three designs make the HIGAO air conditioner maintenance-free.

