

4.GENERAL FAULT ANALYSIS

Fault name	Fault Analysis
Air volume too small	1.To too big resistance (air supplement insufficiency in closed environment). 2.the density is too great.
Fan vibration	1.the impeller is unbalanced. 2.the base isn't firm. 3.The foot bolt looseness. 4.the turning parts touch each other, with exquisite sound. 5.the motor bearing is damaged.
Overload	1.the volume is excessive. 2.the density is too great. 3.the voltage is too high. 4.Motor wiring error. 5.Poor insulation, motor breakdown.
Abnormal sound	1.the bearing is damaged. 2.the turning parts are damaged. 3.The connecting bolt looseness of impeller and hub. 4.Fan aspirated foreign bodies.
Irresponsive	1.the switch can't bear the starting current. 2.the power isn't well connected.

FANMASTER

Axial Roof Fan

OPERATING MANUAL

1. APPLICATION

The axial roof fan is suitable for transporting clean air without explosion, flammability, mucosity and corrosion, the air temperature shouldn't beyond 60° and the medium content less than 150mg/m³. Widely used in the industrial plant, storage, office, residence where need ventilation or heat diffusion.

2. INSTALLATION

- 1). Ensure that all the parts are in good condition, if the fan is damaged because of the transport or package, please repair it before installation.
- 2). Please check the linking parts whether they are loose, the clearance between the scroll and impeller should be even.
- 3). The influence of storm, rain and snow outside of the fan should be fully considered when install the roof fan.
- 4). During installation, the overall factor of structure of building and indoor air pollution sources should be considered, and the installation location of each fan should be reasonably arranged.
- 5). The roof fan should be ensured vertical installed, can not be lean.
- 6). The fan must be naturally matched to the base, forbid hammering the fan forcibly.
- 7). Concret foundation installation can be adopted on flat roof (figure 1); Steel structure installation can be adopted on spire roof (sloping roof) (figure 2). To avoid air leaking out, thick rubber cushion can be filled up between fan base and installation base.

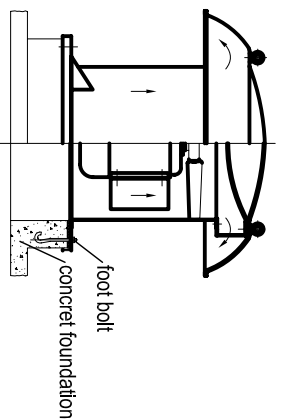


figure 1

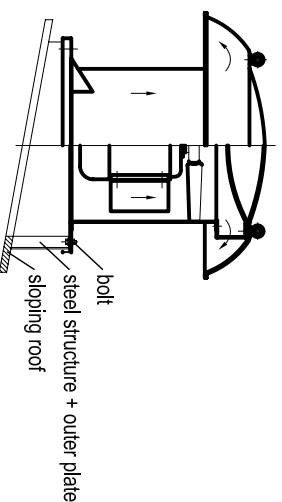


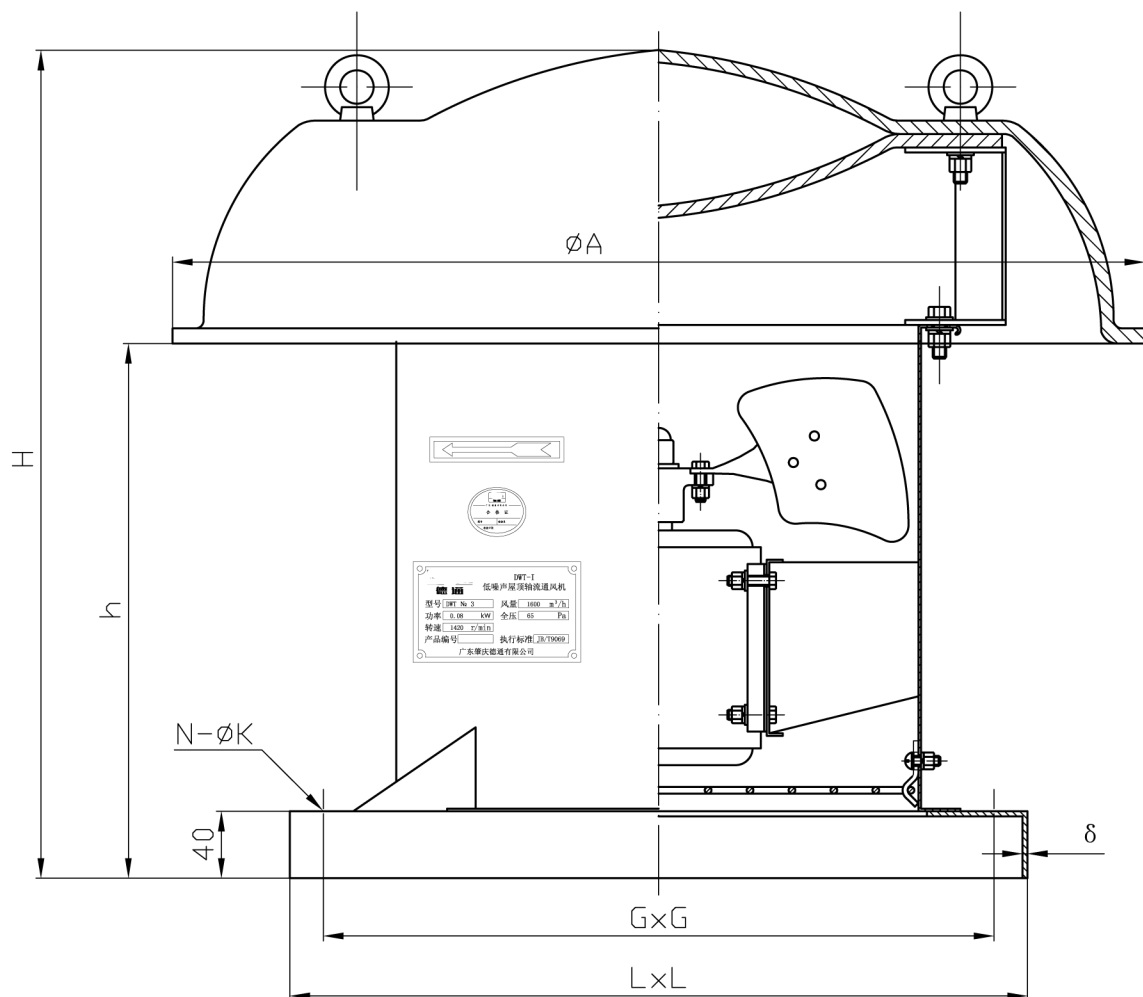
figure 2

- 8). The bolts must be tightened and coating silica gel at bolt joint can prevent water leakage.
- 9). The motor wire must be connected by the careerman to ensure the veracity of the connection and safety.
- 10). To avoid the obstructions entering the fan or the wheel flying off, we suggest you installing the corresponding protectors.

3. MAINTENANCE

- 1). Please check if there are any obstructions in the fan, clear them before operation.
- 2). Please check the following items before operation:

A. the connection is right	B. no abnormity in use
C. the power isn't over loading	D. the arrow accords with the sign
- 3). Take a test before using, ensure the fan is normal before operation.
- 4). The axial fans will be over loading when working at a lower volume, so not keep running in the condition of lacking supply.
- 5). Forbid operating and stopping the fan excessively or the motor will burnout.
- 6). Please check the fan parts regularly, ensure the fan is normal when it is to be used.
- 7). To avoid the damage caused by the fan vibration, you should check the impeller regularly every month, if there is dust or oil, please clear them before using.
- 8). If the fan is left unused for long, please remember checking whether the fan parts are normal, operate the fan after the test.
- 9). Please stop the fan if there is abnormal sound or exquisite vibration, rerun it after overcoming the trouble.



	ϕA	H	h	$L \times L$	$G \times G$	$N-\phi K$	δ
IHR4-550-4-3	$\phi 650$	550	355	520×520	470×470	4- $\phi 10$	3
IHR6-11-6-3	$\phi 1000$	670	455	900×900	770×770	4- $\phi 14$	3
IHR8-22-6-3	$\phi 1390$	750	480	1100×1100	1000×1000	4- $\phi 14$	5