

PROPELLER FAN (belt drive)

Model	Speed (r/min)	Volume (m ³ /h)	Noise dB(A)	Power (kW)	Voltage (V)	Weight (kg)	Dimension AxBxH (mm)
TORNADO EXF-32	450	16000	59	0.37	220	39	900x400x900
TORNADO EXF-44	450	37000	63	0.75	220	65	1220x400x1220
TORNADO EXF-50	450	44500	65	1.1	220	71	1380x400x1380

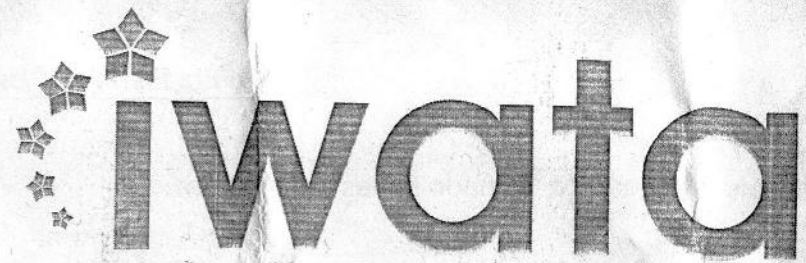


WARNING

This fan has moving parts that can cause serious body injury. Before operation or starting maintenance, read this manual.

During Operation

1. Keep body, hands and foreign objects away from the inlet, the outlet, and the other moving parts of the fan.
2. Before starting maintenance work: lock power supply in off position and immobilize fan wheel.
3. Do not operate the fan without the safety net.



PROPELLER FAN

(Belt Drive)

USER'S MANUAL

www.colentco.com

PROPELLER FAN (belt drive)

1. APPLICATION

This manual is applicable to Tornado series exhaust fan.

2. USE

Tornado series exhaust fan is suitable for transporting clean air without flammability, explosion, mucosity and corrosion. The air temperature shouldn't be beyond 60°C and the medium content is less than 150 mg/m³. Widely used in the industrial plant where need ventilation or heat reducing.

3. INSTALLATION

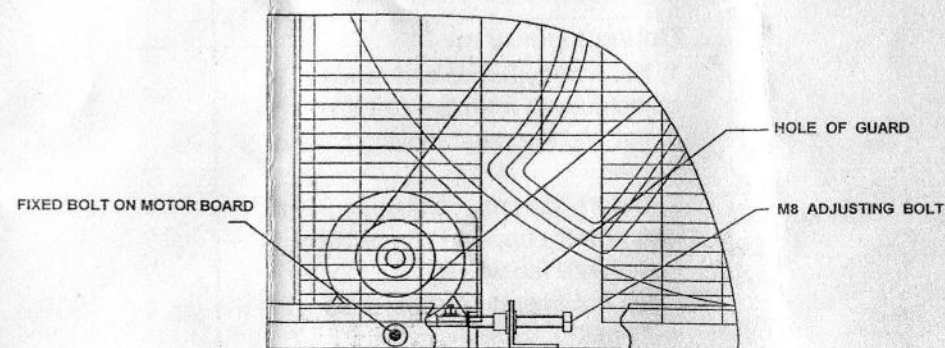
- 1). Ensure that all the parts are in good condition. If the fan is damaged because of the transport or package, please repair it before installation.
- 2). Please check the linking parts whether they are loose, the clearance between the scroll and the impeller should be even.
- 3). The fan must be naturally matched to the base, forbid hammering the fan forcibly, ensure the fan is hoisted horizontally and the bolts are tightened.
- 4). The voltage of three phase power is 220v and the frequency is 60Hz. The voltage should not be over $\pm 5\%$ of the rating voltage.
- 5). The motor wire must be connected by the careerman to ensure the veracity of the connection and safety.

4. MAINTENANCE

- 1). Please check the following items before operation:
A. the connection is right B. no abnormality in use
C. the power isn't over loading D. the arrow accords with the sign
- 2). Take a test before using. Ensure the fan is normal.
- 3). Forbid operating and stopping the fan excessively or the motor will burnout.
- 4). Shut down the power when the shutter can't be self-acting.

- 5). Please check the fan parts regularly. Ensure the fan is normal when it is to be used.
- 6). To avoid the damage caused by the fan vibration, you should check the impeller regularly every month. If there is dust or grease, please clear them before using.
- 7). After using for some time, belt will get soft. It needs user to tighten V-belt regularly.
Way to adjust the belt: loosen fixed bolt on the motor board at the side of air entrance and disconnect small guard which faces right side of motor board then adjust M8 bolt the hole of guard. Checking if the belt is proper or not, pls use index finger and middle finger to press middle of the belt. It is all right when the belt can be pressed down by 15-20mm.
- 8). Type Y attachment - Damaged supply cords to be replaced by the manufacturer, service agent or similarly qualified person to avoid hazard.

SKETCH MAP FOR ADJUSTING BELT:





Quarters Low Noise Axial Fan

USER'S MANUAL

www.colentco.com

Quarters low noise axial fan

1. CHARACTERISTICS

- 1). The high quality motor used guarantees a long life and overload resistance.
- 2). The adoption of static powder spraying technology results in certain degree corrosive resistance.
- 3). The impeller is dynamically and statically balanced to ensure the stability of the fan.
- 4). The turnplate of GWF can be adjusted to any angle you want, and the JGF can be adjusted upward and downward through A style bracket of the fan, this structure is facilitate for installation.

2. USE

GWF and JGF seires are suitable for transporting clean air without flammability, explosion, corrosion and mucosity. The temperature shouldn't exceed 60° and solid content less than 150mg/m³. It is widely used in the smelt plant, chemical plant, mill and some high temperature enviroment.

3. 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, to avoid friction, the clearance between the scroll and the impeller should be even.
- 3). The voltage of three phase power is 220v and the frequency is 60HZ. The voltage should not over $\pm 5\%$ of the rating voltage.
- 4). The motor wire must be connected by the careerman to ensure the veracity of the connection and safety.

4. MAINTENANCE

- 1). 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
- 2). Ensure the fan is normal before using.
- 3). Forbid operating and stopping the fan excessively.

Quarters low noise axial fan

- 6). If the fan is left unused for long, please remember checking whether the fan parts are normal, operate the fan after the test.
- 7). Please stop the fan if there is abnormal sound or exquisite vibration, rerun it after overcoming the trouble.

Fault name	Fault Analysis
Deficient volume	1. the voltage isn't stable or the power is out of phase. 2. the medium density is too great. 3. the fan is used in unmatched condition.
Abnormal sound	1. the bearing is damaged. 2. the turning parts are damaged. 3. the friction among the turning parts.
Irresponsive	1. the switch can't bear the starting current. 2. the power isn't well connected.