



Industrial Air Circulator Instructions

For All Industrial Exhaust Fans

READ AND SAVE THESE IMPORTANT INSTRUCTIONS

- It is important that the following safety precautions be followed when using this product:
- ALWAYS disconnect unit from power source before cleaning or maintenance.
- ALWAYS turn off unit when not in use.
- DO NOT use an extension cord, unit is intended to be permanently hard wired to properly rated electrical service.
- DO NOT place foreign objects through guards into blades.
- DO NOT allow unit to become wet or damp.
- DO NOT use this fan with any solid state speed control device.

WARNING: To avoid risk of fire, electrical shock or injury to persons, observe the following:

- A. Use this unit only in the manner intended by the manufacturer. If you have any questions contact the manufacturer.
- B. Before servicing or cleaning unit, switch power off at service panel and lock service panel to prevent power from being switched on accidentally. When the service disconnecting means cannot be locked, securely fasten a prominent warning device, such as a tag to the service panel.
- C. Do not use replacement parts that have not been recommended by the manufacturer (e.g. parts made at home using a 3D printer).
- D. To avoid risk of fire, electrical shock or injury to persons, do not install or operate fan where personnel, animals, or equipment can come into contact with rotating or moving parts. Supplemental guarding is required with this fan.

INSTALLATION INSTRUCTIONS

After receiving, inspect fan for missing or damaged parts to make sure nothing is damaged or lost during transit. Contact carrier immediately if damage is found.

Mount fan to vertical wall:

- Do not lift fan by motor, fan blade, or fan blade shaft. Rig to exhaust fan panel or support frame. Use spreader bar for large fans.
- Use caution when cutting into existing wall, check for existing utility pipes or wiring.
- Use fasteners appropriate for the type of building structure and weight of fan.
- Fasten fan securely to rigid, structurally sound framework. If in doubt, consult locally licensed structural engineer.
- Check to make sure all fasteners are tight.
- Check to make sure fan blade can rotate freely.

Wiring should only be done by licensed electrician:

- This fan requires field-provided overload protection, it does not include built-in protection. This protection must be rated and selected in compliance with the applicable installation code.
- Check motor nameplate for details on dual-voltage motor wiring. Wire motor to match incoming electrical service. Incorrect wiring will damage the motor.

Start fan carefully:

- Make sure fan blade still turns freely.
- Check to make sure all fasteners are still tight.
- Check v-belt alignment if equipped.
- Jog motor to check motor direction. To reverse rotation for single-phase motors, follow directions on motor nameplate. To reverse rotation for three-phase motors, switch any two line leads.
- Start fan. Check for excessive vibration. Monitor current to make sure motor is not overloaded.

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MAINTENANCE INSTRUCTIONS

All maintenance should be done under supervision by a qualified and licensed electrician. Switch power off at power source and lock during maintenance.

Depending on fan size, the motor may be equipped with relubricatable bearings. Small motors are designed to contain enough lubrication to last the lifetime of the motor and do not require additional grease.

- Follow motor and bearing manufacturer recommendations for grease type and frequency.
- If the manufacturer does not provide specific detailed recommendations, typically regrease approximately every 15,000 hours in perfect conditions. If the motor is operated in severe conditions (over 104°F, dirt, abrasive dust, corrosion, heavy vibration), regrease motor more often depending on actual conditions up to 1500 hours. Use Polyrex EM for temperatures 15°F-120°F. Operation outside normal temperature range is possible with modifications and reduced life, but not recommended or warranted. For higher temperature use Dow Corning DC44. For lower start temperatures use Aeroshell 7.

If equipped, monitor v-belt drive.

- Do not overtighten belt. Too much belt tension causes extra wear and reduced life in bearings.
- Check to make sure sheaves are securely attached to shaft and all fasteners are tight.
- Adjust motor position to tighten belt.
- Periodically check belt tension as the belt wears.
- Make sure fan and motor shafts are parallel and the sheaves are aligned. Check with straight edge across sheave faces.

Contact the factory for replacement parts.

- Include original order number and model number.
- Take pictures of part to be replaced. Include any labels or nameplates on part.

CLEANING INSTRUCTIONS

All cleaning should be done under supervision by a qualified and licensed electrician. Switch power off at power source and lock during cleaning.

Use an air hose or vacuum to remove any airborne contaminants which may have settled on motor or bearings. Use mild detergent to clean blade and guards. Avoid allowing the cleanser to come in contact with the motor bearings or windings. Allow fan to completely dry before next use.

For additional information on TPI Products or replacement parts, call TPI Customer Service Department at 1-800-251-0382 or write the address below.

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