

Recommended Maintenance

of Paxton blowers/motors that will not be placed into service for at least 6 months from date of shipment

Blower Considerations

Store blower in a clean, dry, low humidity area. Ensure the blower intake is tightly covered. Protect entire blower from dust and airborne chemicals by covering the blower with an impermeable cover. Upon return to service, the following maintenance is required:

Replace the following items:

- o Drive Belt
- o Idler Assembly (including the idler spring and bushings)
- o Grease the new bushings with a light coating of white lithium grease prior to installation.
- o Filter element(s)

Check for proper pulley alignment and belt tension. With the motor disconnected from its power source make sure that the blower and motor spin freely.

Check to ensure that all fasteners are secured, air delivery devices are properly positioned and there are no loose components.

Electric Motor Considerations

Improper motor storage will result in seriously reduced reliability and failure. An electric motor that does not experience regular usage while being exposed to normally humid atmospheric conditions is likely to develop rust in the bearings or rust particles from surrounding surfaces may contaminate the bearings. The electrical insulation may absorb an excessive amount of moisture leading to the motor winding failure.

A wooden crate "shell" should be constructed to secure the motor during storage. This is similar to an export box, but the sides & top must be secured to the wooden base with lag bolts (not nailed as export boxes are) to allow opening and reclosing many times without damage to the "shell".

Preparation for Storage

- 1 Store in a clean, dry, protected warehouse where control is maintained as follows:
 - a. Shock or vibration must not exceed 2 mils peak-to-peak maximum at 60 hertz, to prevent the bearings from brinelling. If shock or vibration exceeds this limit vibration isolation pads must be used.
 - b. Storage temperatures of 10 °C (50 °F) to 49 °C (120 °F) must be maintained.
 - c. Relative humidity must not exceed 60%.

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- 2 Measure and record the resistance of the winding insulation (dielectric withstand) every 30 days of storage.
 - a. Seal motor/blower in a vapor tight bag and place new desiccant inside the vapor bag and re-seal by taping it closed.
 - b. If a zipper-closing type bag is used instead of the heat-sealed type bag, zip the bag closed instead of taping it. Be sure to place new desiccant inside bag after each monthly inspection.
 - c. Place the shell over the motor and secure with lag bolts.
- 3 Where motors are mounted to machinery, the mounting must be such that the drains and breathers are fully operable and are at the lowest point of the motor. Vertical motors must be stored in the vertical position. Storage environment must be maintained as stated in step 2.
- 4 Motors with anti-friction bearings are to be greased at the time of going into extended storage with periodic service as follows:
 - a. Motors marked "Do Not Lubricate" on the nameplate do not need to be greased before or during storage.
 - b. Ball and roller bearing (anti-friction) motor shafts are to be rotated manually every 3 months and greased every 6 months in accordance with the Maintenance section of this manual.
- 5 All breather drains are to be fully operable while in storage (drain plugs removed). The motors must be stored so that the drain is at the lowest point. All breathers and automatic "T" drains must be operable to allow breathing and draining at points other than through the bearings around the shaft. Vertical motors should be stored in a safe stable vertical position.
- 6 Coat all external machined surfaces with a rust preventing material. An acceptable product for this purpose is Exxon Rust Ban # 392

Non-Regreaseable Motors

Non-regreaseable motors with "Do Not Lubricate" on the nameplate should have the motor shaft rotated 15 times to redistribute the grease within the bearing every 3 months or more often.

All other Motor Types

- 1 Remove all packing material.
- 2 Regrease the bearings per the manufacturer's instructions.