

Prime-Air Mancoolers Instructions

Prime-Air Blowers, Inc.

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Contents

1	Receiving and Start-Up	2
1.1	Receiving and Inspection	2
1.2	Handling	2
1.3	Installation	2
1.4	Electrical Connections	3
2	General Maintenance	3
2.1	Cast Aluminum and Metal Parts	3
2.2	Motor Maintenance	4
2.2.1	Removing dust and dirt	4
2.2.2	Lubrication	4
2.3	Spare or Replacement Parts	4
3	Warranty Information	5
4	Mancooler Parts List	7

1 Receiving and Start-Up

1.1 Receiving and Inspection

When unit is received, inspect immediately for damaged or missing parts. Even though all units are carefully inspected and prepared for shipment at the factory, rough handling en route may cause concealed damage or cause nuts, bolts or set screws to loosen. Check propeller to see that it rotates freely and that there are no obstructions. Be certain all fasteners are tightened securely.

1.2 Handling

Axial fans should be lifted using straps around the fan housing only. **DO NOT LIFT AXIAL FANS BY THE MOTOR, MOTOR BASE OR PROPELLER.** Our Mancoolers are supplied with casters for easy mobility.

1.3 Installation

Wall Mount fans should always be mounted to a flat, level, and rigid structure. Shim the fan where necessary. This will ensure permanent alignment

and a smooth running, vibration free fan, as well as minimize maintenance costs.

1.4 Electrical Connections

Check motor to ensure proper speed and electrical characteristics. When making electrical connections, the motor must be connected to the proper power source, as indicated by the motor nameplate. Be sure that a qualified electrician adheres strictly to the wiring diagram on the motor nameplate or in the motor terminal box. Special attention should be given to being sure that a single phase motor is connected only to a single phase supply of proper voltage, and that a three phase motor will only operate on a three phase supply. Electric motors will burn out and fail immediately if improperly connected. It is also recommended that an overload device be installed between the current supply and the motor to protect the motor from under-voltage conditions and motor overloads. Recommended tolerances for overload devices should be plus 10 percent of full motor ampere rating, including the allowance for the motor service factor.

2 General Maintenance

CAUTION: Before any maintenance or service is performed,
be sure that unit is disconnected from power source
to prevent accidental starting. NEVER SERVICE OR
ADJUST ROTATING EQUIPMENT WHILE IT IS IN OPERATION.
LOCK OUT THE POWER SOURCE BEFORE PERFORMING
MAINTENANCE.

Periodic inspection of all the fan parts is the key to good maintenance and trouble-free fan operation. Frequency of inspection must be determined by the user and is dependent upon the severity of the application.

Regular fan maintenance should include the following:

2.1 Cast Aluminum and Metal Parts

Cast aluminum and steel parts usually do not require maintenance during the life of the unit except painted metal surfaces that require periodic repainting. In a severe, dirty operation, the propeller should be cleaned with a wire brush to prevent an accumulation of foreign matter that could result in fan unbalance. After cleaning propeller, inspect for possible cracks or excessive

wear, which can cause unbalance. DO NOT operate a propeller that is cracked, chipped, has broken blades or excessive wear. NOTE: If propeller set screws are loosened and/or propeller is removed from shaft, set screws must be replaced. Set screws cannot be used more than once.

2.2 Motor Maintenance

2.2.1 Removing dust and dirt

Blow out open type motor windings with low pressure air to remove dust or dirt. Air pressure above 50 psi should not be used as high pressure may damage insulation, causing excessive temperatures in the motor windings.

2.2.2 Lubrication

Under normal conditions, ball bearing motors will operate for five years without re-lubrication. Under continuous operation at higher temperatures (exceeding 104 °F ambient) or dusty atmospheres, re-lubricate after one year. Bearings are located in the end shields of the motor. Repack each bearing and fill cavity in back of bearings 1/3 full with Grease No. 2 (Shell Oil Company) or equivalent. On motor with non re-greasable, sealed-bearings, no lubrication is required for the life of the bearing.

2.3 Spare or Replacement Parts

Order spare parts from your local representative or contact Prime-Air Blowers, Inc. at:

118 Cambridge Street Worcester, MA 01603

Tel: (508)-755-5577

Fax: (508)-755-5548

Email: primeblowr@aol.com

The following information should accompany parts orders:

- 1. Motor horsepower, frame size, and motor speed.
- 2. Fan Speed (if V-belt driven)
- 3. Serial number, model number, and complete description of the part.

Hardware items that do not have a reference number can usually be purchased locally.

3 Warranty Information

Prime-Air Blowers. Inc. warrants products of its own manufacture against defects of material and workmanship under normal use and service for a period of eighteen (18) months from date of shipment or twelve (12) months from date of installation, whichever occurs first. This warranty does not cover ordinary wear and tear, abuse, misuse, over-loading, altered products, systems or materials not of Seller's manufacture. Expenses incurred by Buyer(s) in repairing or replacing any defective product will not be allowed except where authorized in writing and signed by an officer of the Seller.

Obligation under this warranty being limited to repairing, replacing or allowing credit at our option, without cost of our factory any part or parts thereof which shall, within such warranty period, be returned to us with transportation charges prepaid, and which our examination shall disclose to our satisfaction to have been defective.

This warranty does not apply to any such Prime-Air products and parts which have failed as a result of faulty installation or abuse, or incorrect electrical connections or alterations made by others, or use under abnormal operating conditions or misapplication of the products and parts.

Except as specifically provided above, there are no other warranties, express or implied, including, but not limited to, any implied warranties of merchantability or fitness for a particular purpose.

On equipment furnished by Seller, but manufactured by others, such as motors, seller extends the same warranty as Seller receives from the manufacturer thereof.

Prime-Air assumes no responsibility for material returned to our plant without our written permission.

SAFETY ACCESSORIES WARNING

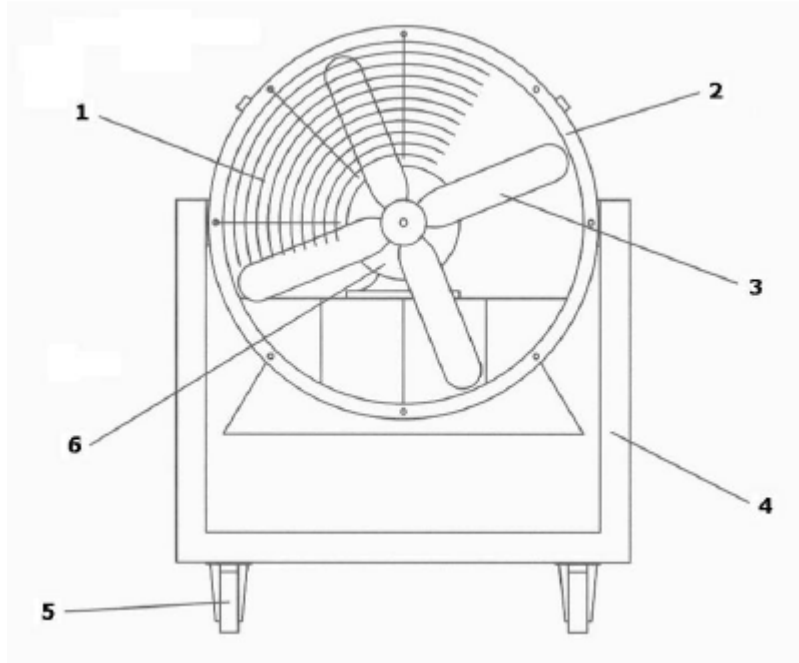
The responsibility for providing safety accessories for equipment supplied by Prime-Air is that of the installer and user of this equipment. Prime-Air sells its equipment with and without safety accessories, and accordingly, it can supply such safety accessories upon receipt of order.

The user, in making its determination as to the appropriate safety accessories to be installed and any warning notices, should consider (1) the location of the installation. (2) the accessibility of employees and other persons to this equipment. (3) any adjacent equipment. (4) applicable building codes, and (5) requirements of the State Bureau of Safety and Health, and Federal Occupational Safety and Health Act.

This manual is for the assistance of personnel in operating and maintaining this equipment. It does not vary or substitute for the express warranty of Prime-Air Blowers, Inc. as set forth in its terms and conditions of sale.

This manual is general in nature and may not apply to special units. Please consult the factory if in doubt as to applicability.

4 Mancooler Parts List



Mancooler (Medium Stand Shown)		
Diagram Number	Part Number	Description
1	M01	Safety Screen
2	M02	Housing
3	M03	Fan Blade
4	M04	Stand (Low, Medium, or High)
5	M05	Casters
6	M06	Motor
-	-	Caster Bolts
-	-	Screen Bolts
-	-	Stand Bolts
-	-	Motor Bolts