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Phoenix MB10 Owner's Manual

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----- Manual continues below part list -----

Available Replacement Parts for Phoenix MB10

<u>5-7-37</u>	MALE MOTOR CORD 16/4 35 INCH (1/3 & 1/2
<u>5-3-58</u>	BLOWER PULLEY FD/FS450, BD/BH4000, BW 55
<u>5-3-35</u>	BLOWER WHEEL 16 INCHX16 INCHX1 INCH - FD
<u>5-3-38</u>	BEARING ASSY - FDFS 450, UFD/USF450, BW
<u>5-3-2</u>	BLOWER SHAFT 1 INCHX22 INCH- FD/FS 450,
<u>5-6-3</u>	BLEED-OFF KIT ALL RESIDENTIAL
<u>5-6-34</u>	120V PUMP ASSY W/BSKT - RESIDENTIAL
<u>5-7-148-10</u>	MOTOR ROCKER SWITCH - BW3004-BW5502
<u>5-7-42</u>	MOTOR ONLY 1/2HP, 2SPD, 120V
<u>5-7-126</u>	CORD, PUMP, FML- BRISA 25 in
<u>5-7-28</u>	MOTOR CLAMPS TO LOCK MOTOR IN MOUNT
<u>5-3-8</u>	1 INCH LEATHER WASHER (12 PACK)
<u>5-7-127</u>	CORD, MOTOR, FEMALE- BRISA
<u>5-3-152</u>	SHEAVE 3.00X.50 FIXED 1/2 hp BW5501
<u>5-3-19</u>	BELT 4L580 - FS450, BH4000, BW5002, BW55
<u>5-7-147</u>	PUMP ROCKER SWITCH - BW3004-BW5502
<u>5-6-1</u>	FLOAT VALVE - ALL RESIDENTIAL EVAPORATIV

Owner's Guide

Use and Care Manual

Model: MB10

Customer Service

1-800-325-6952



- Safety
- Installation
- Start-up
- Operation
- Maintenance
- Troubleshooting

Congratulations: You have purchased a product of superior performance and design, which will give the best service when properly installed, operated and maintained. These coolers can be used as convenient, roll-around spot coolers.

This guide will provide you with information needed to assemble the unit for roll-around spot-cooling. It also contains information on how to safely operate, inspect, maintain and troubleshoot your evaporative air cooler.

The first section, Assembly, contains instructions to prepare your cooler for roll-around portable service. The second section, Maintenance, contains operational and maintenance instructions to aid in keeping your unit in good working order, while Troubleshooting includes information to help diagnose and repair commonly encountered problems.

⚠ WARNING - TO REDUCE THE RISK OF FIRE, ELECTRICAL SHOCK, OR INJURY TO PERSONS, OBSERVE THE FOLLOWING:

READ AND SAVE THESE IMPORTANT SAFETY INSTRUCTIONS

- Read all instructions carefully before installation.
- This cooler must be connected to 120 Volt AC, 60 Hz (cycle) power only. NOTE: Improper voltage will void the pump and/or motor warranties and may cause serious personal injury or property damage.
- This cooler must be plugged into a GFCI protected receptacle, which has been properly installed in accordance with all local and national codes. If you are not sure that the receptacle is GFCI protected, consult with a qualified electrician.
- This cooler is equipped with a power cord having an equipment grounding conductor and grounding plug. Do not attempt to defeat this safety device by removing the grounding pin.
- Do **NOT** step on or roll over power cord with heavy or sharp objects. Do not operate if the plug or cord is damaged in any way. If the unit is damaged or malfunctions, do not continue to operate it.
- Remove the plug from the electrical receptacle by pulling on the plug and not the cord.
- Always disconnect electrical power to unit before attempting to work on or service your cooler.
- Do **NOT** operate near open containers of flammable liquids or gases.

- Do **NOT** operate this blower (fan motor) with any solid-state speed control device.
- Do **NOT** operate this unit with pad frame(s) and/or air outlet grille removed, this may cause the fan motor to overload and damage the motor.
- Never wash your cooler cabinet with garden hose, water may harm motor and pump.

NOTE:

- Do **NOT** use indoors on carpet or wood floor. Unit may leak water and could damage flooring or create a slip hazard.
- Do **NOT** locate or operate cooler near exhaust or vent pipes as odors or fumes may be drawn into unit.
- Your warranty does **NOT** cover shipping damage. Report all shipping damage at once to store making the delivery.
- For future reference, record the model and serial number, date and place of purchase of your evaporative cooler here:

THE USE OF ANODE DEVICES, CHEMICAL ADDITIVES, OR COOLER CLEANER TREATMENTS IN THIS COOLER WILL VOID THE WARRANTY.

Model # _____ Serial # _____

Date of Purchase: _____

Place of Purchase: _____

INTRODUCTION

Your evaporative air cooler was thoroughly tested and inspected before leaving the factory. This is your guide to economical, trouble free comfort cooling over the years with reasonable care and regular maintenance. Failure to follow these instructions may damage your cooler, impair its operation and/or void the warranty
Read it carefully.

PREPARATION FOR ASSEMBLY

Remove the pad frames by slightly lifting the pad frame from the bottom, pull outwards until clear of cabinet bottom pan, then downwards until frame clears cabinet top. Remove the following items from the cooler:

1. Box containing swivel casters and attachment hardware.
2. Plastic bag containing small parts, float valve, garden hose adapter, hose nut, hose washer, o-ring.
3. Bag with hose adapter for float valve (roll-around use)

Gather tools required to assemble & install unit

The following tools are required to assemble the unit:

- 7/16" box or open end wrench 6" crescent wrench
- 3/8" box or open end wrench 1/4" nut driver

SET UP FOR ROLL-AROUND USE

- Open parts box & remove casters from parts bag. Assemble each caster (Fig.1) per caster plate using supplied 1/4-20 nuts & carriage bolts.
- Place casters w/ brakes on the front of the unit, and the casters without the brakes should be mounted on the back of the cooler. Use 4 of the 1/4-20 bolts from the parts bag to secure all 4 of the casters to their respective caster plates. Apply brakes before lifting cooler upright to complete assembly.

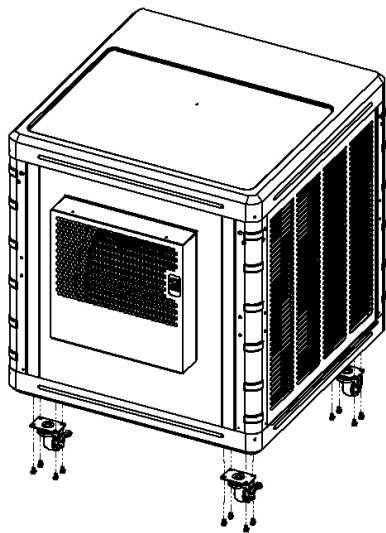
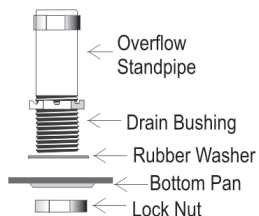


Figure 1

Install Overflow Standpipe / Drain Line

Install overflow drain bushing in bottom of cooler as follows:

- Slide rubber washer over the brass drain bushing.
- Push drain bushing through bottom of cooler, assemble and tighten lock nut.
- Screw plastic overflow standpipe into the drain bushing and tighten snugly (hand tight) to prevent leakage.
- Where conditions allow for drainage, connect a drain line (garden hose) to drain bushing.



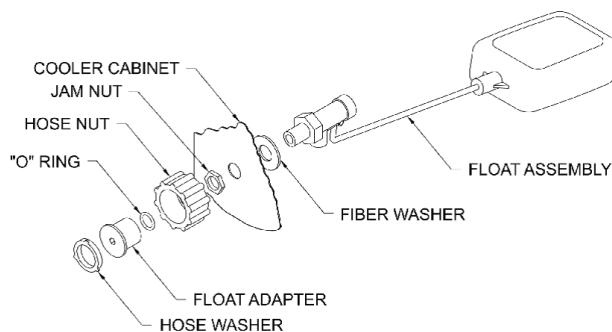
Install float valve and hose adapter

Attach the float valve to the cabinet as shown below. The garden hose adapter attaches to the brass inlet fitting on the float valve.
NOTE: verify that the hose washers are correctly in place.

Water connection and float adjustment

Move cooler to desired location (this should be a level area for proper operation of the cooler).

1. Locate a knock-out in the bottom of any of the four corner posts.
2. Connect to water supply using a commercial grade of water hose (not supplied with cooler, obtained separately) to the adapter on the float valve and turn water on. **CAUTION:** water inlet pressure should be limited to a maximum of 65 PSI to avoid rupturing the water hose. If pressure exceeds this value, an inline pressure regulator should be installed (obtainable from a local plumbing or hardware store).
3. Check that all connections are tight by visually inspecting hose, float valve, etc. for leakage.
4. Set float valve for a water depth of 2-1/2". The float is adjusted by lightly bending the float rod.



Cooler checkout and first time start-up

Congratulations, once you re-install the pad frames, your roll-around Master Blaster cooler will be complete and ready for use. Please proceed to the Pre-startup inspection checklist on page 3 before starting unit for the first time.

Motor and blower wheel check

Check motor mounting to be sure all screws and nuts are tightened down properly. Rotate blower wheel by hand to see that it moves freely without rubbing against housing.

Belt Tension Adjustment

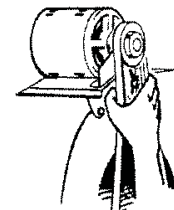
CAUTION:

Disconnect all electrical power to the cooler and insure that belt is not rotating before adjusting belt tension.

Correct belt tension and alignment is important, proper setup reduces power consumption and prolongs life of belt and motor. Check belt tension by squeezing belt. Proper tension will allow deflection of 1/2 to 3/4 inch. To increase or decrease belt tension, loosen bolt in slot of motor support bracket. Adjust belt to proper tension and retighten bolt.

CAUTION:

Never operate unit with pad frame(s) and/or air outlet grille removed. This will result in an overloaded condition and may damage the motor.



⚠CAUTION:

This cooler is designed for connection to 120 volt AC, 60 Hz (cycle) power only. **NOTE: Improper voltage will void the pump and/or motor warranties and may cause serious personal injury or property damage.**

This cooler is equipped with a power cord having equipment grounding conductor and grounding plug. **Do NOT attempt to defeat this safety device by removing the grounding pin.**

GENERAL INSPECTION

Pre-Start-up Inspection Checklist

Before start-up of the cooler motor and pump for the first time, or at the beginning of each cooling season, make sure all connections and adjustments have been made.

- √ Cooler is on a level surface, casters locked to prevent unnecessary movement (prevent spillage).
- √ Power supply cord is plugged into a GFCI protected receptacle; cord is secure from accidental damage.
- √ Drain and float valve installed.
- √ Water hose connected securely without leaks.
- √ Water faucet or supply is turned on.
- √ Float adjusted for proper water level.
- √ Pad frames and air outlet grille correctly installed.
- √ Pump impeller turns freely. Remove impeller cover (see "Cleaning Pump"), and check rotation.
- √ Blower wheel, shaft, pulley and motor sheave set bolts/screws are snug.
- √ Motor sheave/Blower pulley alignment is okay; belt tension is okay.

START-UP CHECKLIST

⚠CAUTION:

Never operate unit with pad frame(s) and/or air outlet grille removed. This will result in an overloaded condition and may damage the fan motor. The motor and pump have an internal automatic thermal overload switch that will shut the motor and/or the pump off if it overheats! The motor and/or pump can restart automatically when they cool down.

To verify and check out the cooler installation on initial start-up, the following procedure should be followed.

- √ Push "COOL" switch to ON position (pump on).
- √ Verify that pump starts and pads are evenly wet.
- √ Push "FAN" switch to LOW position (low speed on).
- √ Observe that motor starts and runs. Check high-speed function by turning "FAN" switch to HIGH (high speed on).
- √ When switching from Low to Hi speed you should pause in center position (OFF) for 2 seconds to extend motor life.

NOTE: When new, the glue in the media pad may emit an odor. Flushing the pad and draining the water prior to first use can reduce or eliminate the odor. Turn the pump on (do not turn on the fan) and run for approx. 30 minutes making sure the pad is soaked. Remove standpipe & cap and drain the water out of the cooler. Refill and run the pump again for another 30 minutes. The odor should diminish and go away. If not, drain and flush until the order is gone.

Cabinet Inspection Checklist

After initial start-up and during periodic inspections, check for and/or observe the following: Refer to the Troubleshooting Chart on page 6 if necessary.

- √ Leaks from water lines, pad frames, cabinet, etc.
- √ Observe cooler pads for uneven wetting.
- √ Confirm water level setting is correct.
- √ Verify full, even flow in water distribution system.
- √ Blower wheel / motor rotates freely.
- √ Belt condition / tension / alignment.
- √ Check that set screws on pulleys, blower wheel are tight.
- √ Check motor mounting and cabinet hardware.

OPERATING INSTRUCTIONS

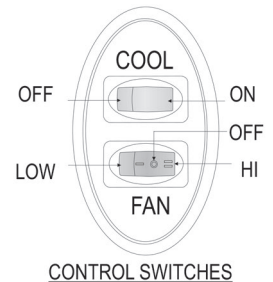
Guidelines and location

Always make sure that the roll-around unit is operated on a solid, level surface strong enough to hold its weight (unit can weigh 270 lbs when full). Make sure the two locking casters have been locked to prevent the cooler from accidentally moving while in use. Use caution when rolling the unit to avoid splashing or spilling of water. Unless the move is for a short distance, it is best to drain the unit, move it and then refill it in its new location.

Controls

Rocker-type control switches are used to select the operating mode of the cooler. These switches control fan speed (FAN-HIGH/OFF/LOW) and the pump operation (COOL-ON/OFF).

To eliminate a rush of warm air when starting the cooler, be sure to turn the pump (COOL) on for a few minutes before turning on the blower motor (FAN) in low or high speed.



MAINTENANCE SCHEDULE

Regular maintenance and periodic inspection is the key to long and successful service of your Master Blaster cooler. The cooler should receive major servicing at least once a year, more often if conditions require (dusty environment, constant use, poor water quality, etc.) For maximum cooling efficiency, long life and appearance, every two months during operation, the cooler should be inspected and cleaned.

NOTE: Do Not Undercoat the Water Reservoir

Your cooler's water reservoir is finished with our Peblar XT® appliance-type finish. It is so hard that asphalt-type cooler water pan under-coatings will not stick to it. Undercoating will break free, clogging the pump and water distribution system.

NOTE: Do not use cooler cleaners, cooler treatments, anodes or other chemical additives in this evaporative cooler. Use of any additives or water treatment other than the furnished bleed-off will void your warranty and may impair the life of the cooler.

Before starting any maintenance operation, thoroughly read all operating and maintenance instructions and observe all cautions and warnings.

CAUTION: Disconnect all electrical power to the cooler by removing plug from receptacle before attempting to install, open, or service your cooler.

Even while routinely inspecting or servicing the inside, the cooler can be accidentally started. Keep all personnel away from the cooler and electrical supply when you are working on it. Before servicing or cleaning unit, switch "COOL" and "FAN" to the OFF position and remove power cord from receptacle.

All foreign materials, scale, salt deposits, lime, etc. can and should be removed from louvers, bottom pan, and other components. Your cooler's long lasting finish can be brought to like-new condition by using warm water and a soft cloth.

NOTE: Avoid using scouring pads, steel wool or wire brushes, as these will damage the finish and encourage corrosion.

MAINTENANCE & INSPECTION

CAUTION: Disconnect all electrical power to the cooler by removing the plug from the receptacle before attempting to install, open, or service your cooler.

IMPORTANT: Before operating cooler at beginning of each cooling season, turn blower wheel, cooler motor and pump motor shafts by hand to make sure they turn freely. Failure to do so may result in burning out the motor.

Periodic inspection of your cooler will enhance long, trouble-free service life. For maximum efficiency, every two months during operation, or any time the cooler is opened, the cooler should be inspected. Some suggested items:

- ✓ Check for leaks from pad frames, cabinet, etc.
- ✓ Are there any dry spots on the media when cooler is in operation?
- ✓ Are bolts, nuts and set screws snug?
- ✓ Are the bearings making unusual noises?
- ✓ Does the blower wheel turn freely?
- ✓ Is float level set correctly?
- ✓ Is water in the bottom pan clean?
- ✓ Belt condition/tension/alignment?

Set Screws, Bolts and Nuts

Check torque on set screws and cabinet hardware:

- ✓ Motor and Blower Pulley set screws (95 in-lbs.)
- ✓ Blower Wheel set screws (1 per side, 150 in-lbs)
- ✓ Cabinet hardware (25 in-lbs)

CAUTION: Disconnect all electrical power to the cooler and insure that belt is not rotating before adjusting belt tension.

Adjust Belt Tension

Each time you inspect your cooler, be sure to check belt tension on motor/blower assembly. Check belt condition and replace it if trays or cracks appear. Check alignment of blower pulley with motor pulley.

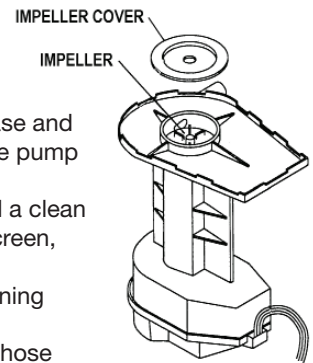
Cleaning Water Pump & Hose

CAUTION: Disconnect all electrical power to the cooler before attempting to install, open, or service your cooler.

CAUTION: Do not allow pump to fall over and become submerged; water will damage pump motor.

Clean water pump, drain pump, and hose assembly as follows:

- Unplug pump cord, remove mounting bracket screw and remove pump from cooler. Shake gently to remove water.
- To prevent breakage, carefully release and remove impeller base plate from the pump body.
- Using a mild detergent solution and a clean cloth, clean deposits from pump screen, around impeller and base plate.
- Spin impeller to dislodge any remaining foreign material.
- Remove any foreign material in the hose adapter (between the pump and hose), or between the hose and the water distributor assembly.
- Rinse and reinstall impeller base plate.
- Reinstall pump and reconnect pump cord.



Draining

Drain the cooler cabinet (with power off and panels removed) as follows:

- Connect a drain hose to the drain fitting on the bottom of the reservoir, if not already connected to drain line.
- Remove brass cap and overflow standpipe from the drain fitting.
- Drain and clean reservoir. Remove any remaining water with a rag or sponge.

Touch-up

The hardness, adhesion and smoothness of the internal and external finish on your cooler makes it extremely unlikely that scratches or chipping will occur. In the event that finish damage does occur, it should be promptly repaired by the following procedures:

1. Sand the area around bare metal spots.
2. Prime and paint with a quality paint.

Do not use asphalt type cooler undercoat material in water reservoir. Undercoat will break free, clogging the pump and water distributor.

Lubrication

Motor Bearings

Some motors used in Master Blaster coolers have ports for lubricating the motor and are oiled at the factory. They should be checked after 20-30 days of operation. If the need for oiling is indicated, see the motor nameplate for specific instructions on re-lubricating the motor. Under normal use, these motors require oiling about every 12 months of operation. **Do Not Over-Oil.**

Blower Shaft Bearings

Blower shaft bearings need periodic lubrication. They should be checked 20-30 days after initial start-up of operation. The oil cups on the bearings should be filled with a good grade of SAE 20W or 30W non-detergent oil when necessary. Under normal use, oiling is required every three months of operation. **Do Not Over- Oil.**

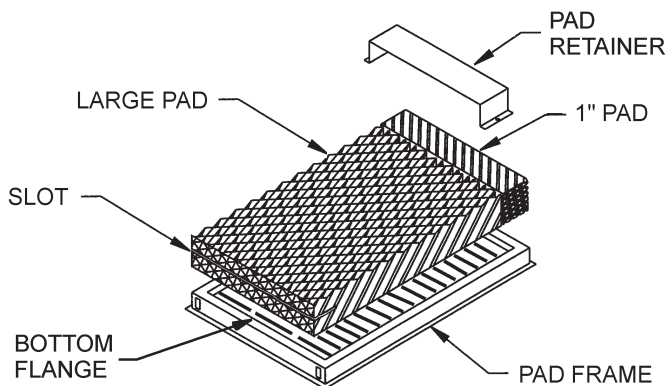
Pump Motor Bearings

The pump motor does not require lubrication.

Changing Cooler Pads

Scale may build up on outside of the Rigid Pad, which will restrict the airflow. The Rigid Pad should be removed and replaced if scale cannot be removed using the methods described below. Failure to do so may result in premature failure of components.

1. Remove pad assembly from cabinet.
2. Remove pad retainer from frame. Carefully remove all rigid media from the louver panel, paying attention to the bottom of the media as there is a cut made at the bottom. Remove and discard old pads.
3. If passages are clogged or pad is dirty, hose off the inlet face of the pad. Light, gentle brushing of the inlet edges of the pad with a stiff bristle brush (don't use a wire brush) will not harm the pad and will remove stubborn scaling.
4. If necessary, replace with new rigid media pads. Aspen, expanded paper or other types of evap cooling pads will not work and will void your warranty.
5. Lay new rigid media pads into the louver panel assy., paying attention to how the slit at the bottom of the pad is oriented.
6. Return the rigid media retainer so that it fits on top of the rigid media pads and holds them securely against the louver panel.
7. Pre-soak pads and check for air gaps along edges, reinstall pad frame into unit.
8. Start pump and allow troughs to fill... check water level in trough by slightly tilting pad frame out.



Shut Down:

- Always drain all of the water out of the cooler and water supply line when not in use for prolonged periods, and particularly at the end of the season. Keep the water line disconnected from both the cooler and the water supply so it does not freeze.
- Disconnect power from cooler during extended periods of non-use.

REPLACEMENT PART

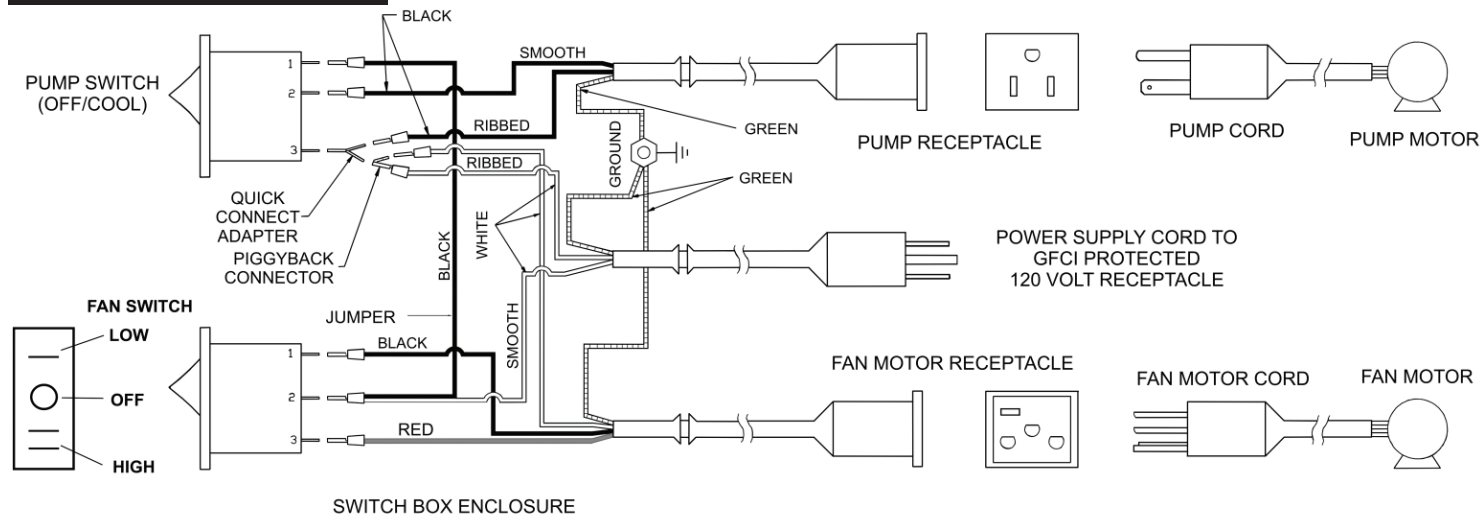
When ordering replacement parts, always refer to the serial and model number of your cooler. Use the part numbers listed in the accompanying parts list, as illustrated in the diagrams for your model.

TROUBLESHOOTING GUIDE:

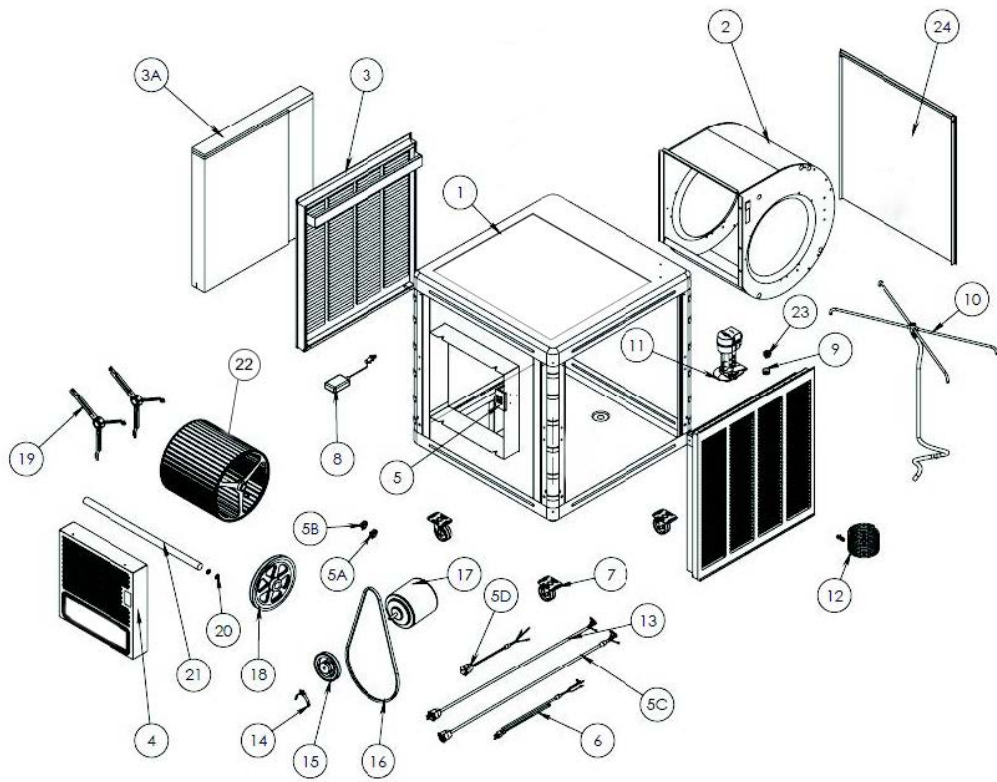
Should an obvious problem occur with your cooler consult the following table. If you cannot correct the problem, or if it persists, contact qualified service personnel.

PROBLEM / SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
Water draining from unit	Float valve out of adjustment	Adjust float to 2-1/2" water depth
	Float movement obstructed	Free float from obstruction
	Float valve non-functional	Replace float assembly
Dry pads	Pump intake clogged	Remove obstruction
	Water pump non-functional	Replace water pump
	Clogged water line	Locate and free obstruction
	Pad trough clogged	Clear debris from trough
	Switch non-functional	Replace switch
	Wiring non-functional	Repair or replace non-functional wiring
	Water turned off to cooler	Turn on water supply
	No water	Fill reservoir
Motor does not start or no air delivery	Electrical power disconnected	Check power receptacle and cord
	Belt too loose or too tight	Adjust belt tension
	Defective motor	Replace motor
	Defective switch	Replace switch
	Broken belt	Replace belt
Inadequate air delivery	Insufficient air exhaust	Open windows to increase air flow
	Belt too loose	Adjust belt tension or replace if necessary
	Pads plugged	Replace pads
Motor cycles on & off	Low voltage	Check voltage
	Excessive belt tension	Adjust belt tension
	Blower shaft tight or locked	Oil or replace bearings
	Bearing dry	Oil bearings
	Pad frame(s) or air outlet grille removed	Re-install pad frame(s) or air outlet grille
Noisy operation	Blower rubbing on housing	Reposition wheel
	Motor sheave or blower set screws loose	Tighten set screws
Excessive humidity in house	Inadequate exhaust	Open doors and windows to increase ventilation
Musty or unpleasant odor	Stale or stagnant water in cooler	Drain, clean, and flush reservoir
	Media pads clogged or mildewed	Replace media pads
	Media pads not completely wet before starting fan motor	Turn pump ON for several minutes prior to starting cooler
	New pads have an odor that goes away after about 4-8 hours.	Drain reservoir multiple times until odor dissipates

WIRING DIAGRAM



ITEM	REPLACEMENT PART	MB10A	MB20A
1	CABINET	----	----
2	BLOWER ASSEMBLY COMPLETE	05-003-0220	05-003-0221
3	PAD FRAME ASSEMBLY COMPLETE	05-002-0429	05-002-0431
3A	RIGID MEDIA (SET)	05-002-0430	05-002-0432
4	GRILLE	05-001-0154	05-001-0155
5	SWITCH BOX ASSEMBLY	05-007-0185	05-007-0185
5A	SWITCH (PUMP)	05-007-0147	05-007-0147
5B	SWITCH (MOTOR)	05-007-0148	05-007-0148
5C	MOTOR RECEPTACLE	05-007-0127	05-007-0127
5D	PUMP RECEPTACLE	05-007-0126	05-007-0126
6	POWER SUPPLY CORD	05-007-0186	05-007-0186
7	CASTER (COMPLETE SET OF 4)	05-001-0152	05-001-0152
8	FLOAT VALVE	05-006-0001	05-006-0001
9	BUSHING NUT with BRASS HOSE CAP	05-006-0242	05-006-0242
10	WATER DISTRIBUTOR ASSEMBLY	05-006-0263	05-006-0265
11	PUMP	05-006-0034	05-006-0034
12	BLEED OFF TEE & HOSE	05-006-0003	05-006-0003
13	MOTOR CORD (MALE)	05-007-0037	05-007-0037
14	MOTOR MOUNTING STRAPS	05-007-0028	05-007-0028
15	MOTOR SHEAVE	05-003-0152	05-003-0222
16	BELT	05-003-0019	05-003-0024
17	MOTOR (BARE)	05-007-0042	05-007-0046
18	BLOWER PULLEY	05-003-0058	05-003-0060
19	BEARING ASSEMBLY (SET OF 2)	05-003-0038	05-003-0039
20	LEATHER WASHERS	05-003-0008	05-003-0008
21	SHAFT	05-003-0002	05-003-0003
22	BLOWER WHEEL	05-003-0035	05-003-0036
23	GARDEN HOSE ADAPTOR	05-006-0264	05-006-0264
24	ACCESS PANEL	05-001-0157	05-001-0158



Evaporative Cooler - Limited Warranty

Phoenix Manufacturing Inc, Phoenix Arizona, extends this limited warranty to the original purchaser of this evaporative cooler.

What this warranty covers and for how long:

FIVE YEAR COVERAGE Phoenix Manufacturing Inc will exchange the cabinet only should any water leakage occur through the base assembly due to rust out, or as a result of defect in material or workmanship during the first five years from the date of initial purchase.

THREE YEAR COVERAGE: applies to the fan motor if furnished by Phoenix Manufacturing Inc.

ONE YEAR COVERAGE: applies to all other components if furnished by Phoenix Manufacturing Inc. Phoenix Manufacturing Inc, at their discretion, will exchange or replace all components should they fail as a result of a defect in material or workmanship during the first year from date of initial purchase.

Media is a disposable item and has no warranty.

What this warranty does NOT cover:

PMI is not responsible for any damage or malfunction unless caused by a defect in material or workmanship. Determination of defects in materials or workmanship is at the sole discretion of PMI or its appointed representative.

DAMAGE OR MALFUNCTION, WHICH IS NOT COVERED BY THIS WARRANTY, INCLUDES, BUT IS NOT LIMITED TO:

√ Pad media √ Abuse or misuse √ Worn belts √ Improper installation, maintenance or operation
√ Water damage to motor √ Transportation damage √ Acts of God

- Do not use anode devices, water from a water softener, cooler cleaners, cooler treatments or other additives in your cooler. The use of any of these products will void your warranty and may impair the life of your cooler.
- This warranty does NOT cover evaporative coolers installed and operated outside the continental United States.
- PMI does NOT pay the cost of a service call to the site or installation to diagnose the cause of trouble.
- PMI does NOT pay the cost of labor to install the part, or mileage allowance to or from the site.
- PMI does NOT pay the freight/postage on any exchange or replacement parts.
- This warranty does NOT cover any failure, damage, or defect that results from unauthorized modification or service, or from the use of products or replacement parts other than those from PMI, including, but not limited to motors and pumps.

To obtain service under this warranty:

Contact the dealer where you purchased your evaporative cooler. Include your name, phone number, address and zip code, the model and serial number of your evaporative cooler, **a copy of your proof of purchase**, date of installation and a description of your problem.

If you are not able to locate your dealer, or in case of unsatisfactory warranty service from your dealer, please write the Warranty Department, PMI, 3655 E. Roeser Road, Phoenix, Arizona, 85040. Include your name, phone number, address and zip code, the servicing dealer involved, the model and serial number of your evaporative cooler, **a copy of your proof of purchase**, date of installation, and a description of your problem.

Replacement Parts:

All PMI replacement parts carry a 90-day warranty from date of purchase (or balance of original warranty, whichever is greater).

This warranty is the only warranty extended by PMI to consumer purchasers of evaporative coolers. PMI disclaims all other warranties, expressed or implied, that arise by the operation of the law, except that implied warranties of merchantability or fitness for a particular purpose are limited to the duration of the expressed limited warranty period. PMI shall not be liable to any incidental or consequential damages, above the limitations or exclusions stated above which may have resulted from any alleged breach of warranty.

Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, the limitations or exclusions stated above may not apply to you. This warranty gives you specific legal rights, and you may have other rights which vary from state to state.

Garantía Limitada – Enfriador Evaporativo

Phoenix Manufacturing Inc., Phoenix, Arizona, extiende esta garantía limitada al comprador original de este enfriador evaporativo.

What this warranty covers and for how long:

Cobertura de cinco años Phoenix Manufacturing Inc intercambiará el gabinete, si es que fugas de agua ocurran a través del fondo debido a oxidación, como resultado de material defectuoso o de mano de obra durante los primeros cinco años de la fecha de su compra inicial.

Cobertura de tres años se aplica a motor de ventilador si propoecionado por PMI.

Cobertura de un año se aplica a todos los componentes si fue proporcionado por PMI. PMI a su discreción, intercambiará o reemplazará, todos los componentes si es que fallan como resultado de defectos en material o mano de obra durante el primer año de la fecha de su compra inicial.

Paja es un articulo desechable y no tiene garantía.

Lo que NO cubre esta garantía:

PMI no es responsable por ningún daño o mal funcionamiento al menos que sea causado por defectos de material o mano de obra. Determinación de defectos de material o mano de obra es solamente a la discreción de PMI o su representante designado.

DAÑOS DEBIDO A MAL FUNCIONAMIENTO QUE CUBRE ESTA GARANTIA INCLUYEN, PERO NO SE LIMITAN A:

√ Filtros (paja) √ Abuso o mal uso √ Bandas gastadas √ Impropia instalación, mantenimiento, u operación
√ Daño de agua al motor √ Daños de transportación √ Actos de Dios

- No use dispositivos de ánodos, agua de un sistema de agua blanda, limpiadores para enfriador, tratamientos para enfriador, u otros aditivos en su enfriador. El uso de cualquiera de estos productos anulará la garantía y posiblemente acortar la vida de su enfriador.
- Esta garantía no cubre enfriadores instalados y operados fuera del continente de los Estados Unidos.
- PMI NO paga el costo de llamada de servicio a la instalación para diagnosticar la causa del problema.
- PMI NO paga el costo de labor para instalar la parte, o el costo del millaje hacia o del lugar.
- PMI NO paga por el costo de flete/postal o cualquier intercambio o reemplazo de partes.
- Esta garantía NO cubre ninguna falla daño, o defecto que resulte por modificación no autorizada o servicio, o por el uso de productos o partes de reemplazo que no sean de PMI incluyendo, pero no limitado a motores y bombas.

Para obtener servicio bajo esta garantía:

Contacte su proveedor en donde compró su enfriador. Incluya su nombre, número de teléfono, dirección y zona postal, el modelo y número de serie de su enfriador evaporativo, **una copia de prueba de compra**, fecha de instalación y descripción del problema.

Si no puede localizar su proveedor, o en caso de servicio de garantía insatisfactorio, favor de escribir Departamento de garantía, PMI, 3655 E. Roeser Road, Phoenix, Arizona, 85040. Incluya su nombre, número de teléfono, dirección y zona postal, el taller de servicio envuelto, el modelo y número de serie de su enfriador evaporativo, **una copia de prueba de compra**, fecha de instalación y descripción del problema.

Partes de reemplazo:

Atodos las partes de reemplazo de PMI cuentan con una garantía de 90 días desde la fecha de su compra (o el balance de la garantía original lo que sea más).

Esta es la única garantía extendida por PMI al consumidor que compra enfriadores por evaporación. PMI desconoce todas otras garantías, expresadas, que surjan por la operación de la ley, excepto que garantías implicadas de comerciabilidad o conveniencia para un propósito particular son limitadas a la duración del limitado período de garantía expresado. PMI no deberá ser responsable por daños incidentales o consecuentes, las limitaciones o exclusiones declaradas arriba que posiblemente hayan resultado de cualquier declaración de garantía rota. Algunos estados no permiten limitaciones en que tanto el contenido de una garantía dure o la exclusión o limitación de daños incidentales o consecuentes, las limitaciones o exclusiones indicadas arriba es posible que no se la aplique a usted. Esta garantía le da a usted derechos específicos legales, y es posible que usted tenga otros derechos que varían de un estado a otro.