TROUBLESHOOTING GUIDE

PROBLEM	POSSIBLE CAUSE	REMEDY
Inadequate Cooling	1. Cooler undersized	1. Replace with larger cooler
	2. Clogged or dirty filters	2. Replace filters
	3. Dry filters or lack of water while cooler is in operation	3. Adjust water troughs • Check water distributing system for obstruction • Check pump
	4. Insufficient air discharge openings or inadequate exhaust from area being cooled causing humditiy build-up and discomfort	4. Make sure there is adequate air exhaust
	5. Excessive humidity	5. In some areas, there may be a few days during the summer when the relative humditiy is high resulting in complaints about poor cooling • Limitations of an evaporative cooler should be explained to the customer
	6. Blower turning backwards	6. Re-connect motor for correct rotation
	7. Blower installed backwards	7. Remove and re-install blower wheel to turn in correct direction
	8. Blower running too slowly	8. Check motor amps and readjust variable pitch motor pulley to increase blower speed, if needed
	9. Belt slipping	9. Tighten belt by readjusting position of motor • Replace belt if worn

PROBLEM	POSSIBLE CAUSE	REMEDY
Blower fails to start	1. No fuse or blown fuse	1. Replace fuse
	2. Loose electrical connections	2. Check all electrcial connections
	3. Defective switch	3. Replace switch
	4. Motor burned out	4. Replace motor
	5. Belt or pulley loose	5. Check belts and pulleys
	6. Belt broken or missing	6. Install new belt

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PROBLEM	PROBABLE CAUSE	REMEDY
Motor overheats or burns out	1. Belts too tight	1. Check belt tension
	2. Improper adjustment of variable pitch motor pulley causing motor overload	2. Check variable pitch motor pulley for proper adjustment • A variable pitch motor pulley can be adjusted to accommodate the speed of the blower to the ductwork used • Adjust pulley so motor amperes do not exceed full load amperes shown on motor name plate
	3. Low voltage	3. Check voltage and consult with power company, if low
	4. Incorrect power supply	4. Check power supply against motor name plate specifications
	5. Incorrect motor, motor has been changed	5. Be sure motor is correct size for cooler
Belt slippling or wearing excessively	1. Belt loose	1. Adjust belt
	2. Pulleys out of line	2. Align pulleys
	3. Moisture getting on belt	3. Check for loose water connections
	4. Worn belts	4. Replace belts
	5. Worn or imperfect pulleys	5. Replace pulleys

PROBLEM	PROBABLE CAUSE	REMEDY
Pump fails to operate	1. Pump motor failure	1. Replace complete pump
	2. Improper wiring of pump leads to motor and switch	2. Re-check pump leads connected to power and switch
	3. Loose electrical connections	3. Check electrical connections
	4. Pump switch faulty	4. Replace pump switch
Pump runs but doesn't circulate water/Pump runs but filters lack water	1. Insufficient water in bottom of cooler pan	1. Check float adjustment - water should be maintained at approximately 3-1/2" depth
	2. Pump screen clogged	2. Clean screen
	3. Clogged tubing	3. Clean tubing
	4. Foreign matter lodged in the water distributor	4. Remove pump hose from the tee and clean out foreign matter

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Cooler noisy	1. Wheel rubbing on housing	1. Re-position wheel
	2. Wheel out of balance due to dirt	2. Check wheel and clean
	3. Cooler delivering more air than needed	3. Ajdust motor pulley to slown down blower
	4. Improper alignment of blower bearings	4. Adjust blower shaft set collars - snug but not too tight
	5. Belt squealing	5. Tighten belt by adjusting motor • Apply belt dressing to belt • In some cases, belt may need to be replaced
Continuous overflow of water	1. Float valve adjustment incorrect	1. Adjust float valve
	2. Valve stuck open due to lime deposits	2. Clean valve and adjust

PROBLEM	PROBABLE CAUSE	REMEDY
Foam or suds (rarely experienced)	1. When filter pads are installed where the water supply is relatively soft, or if the wood has a higher than normal amount of spaonin, the pump may churn up suds	1. Drain and refill cooler sump with fresh water • May need to be repeated for severe cases
Unpleasant odor	1. Cooler located near source of unpleasant odor	1. Remove source of odor or place a barrier between cooler and source of odor
	2. Algae in sump water	2. Drain cooler bottom, clean, re-fill, and install new filters
	3. Filters remain wet after shut down	3. Allow blower to run for about 10 minutes after pump is shut off to dry out filters
	4. Water level too high; keeps lower edge of filter wet	4. Re-adjust water level so filters are above water in cooler bottom
Rapid formation of white depostis on pads and louvers	1. High mineral content of supply water	1. Install drain connections from cooler with a shut-off valve in a convenient location. • Open valve once a week to flush out all the water in the cooler • Frequency of flushing depends on the hardness of water supply and amount of usage of the cooler

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Water being thrown into room	1. Loose tubing or pump hose connections	1. Check and tighten all tubing and hose connections
	2. Break in tubing or pump hose	2. Replace any cracked or broken tubing or hose
	3. Cover not installed on float valve to prevent spray	3. Install cover on float valve to prevent spray
	4. Filters not properly installed in Grip-Lock filter holders and have sagged	4. Make sure filters are properly installed in Grip-Lock holders to prevent sagging filters
	5. Discharge ends of water distribution tubing do not fit into the water distribiuting troughs in top of filter cartridges	5. Make sure water distribution tubing discharges water into water distriubting troughs in top of filter cartridges
	6. Old filters that have developed thin spots	6. Replace with new filters
	7. Pump delivering excessive water to filters	7. Install hose clamp on hose to restrict supply of water
	8. Aspen fiber sticking through netting on inside of pad	8. Remove projecting fibers or replace with new filters

PROBLEM	POSSIBLE CAUSE	REMEDY
Dust and alkali pulling off pads	1. Filters dry when cooler started up	1. Turn pump on about 10 minutes before blower is turned on
	2. Loose paint or scale in cooler cabinet or ducts	2. Clean and repaint where necessary