

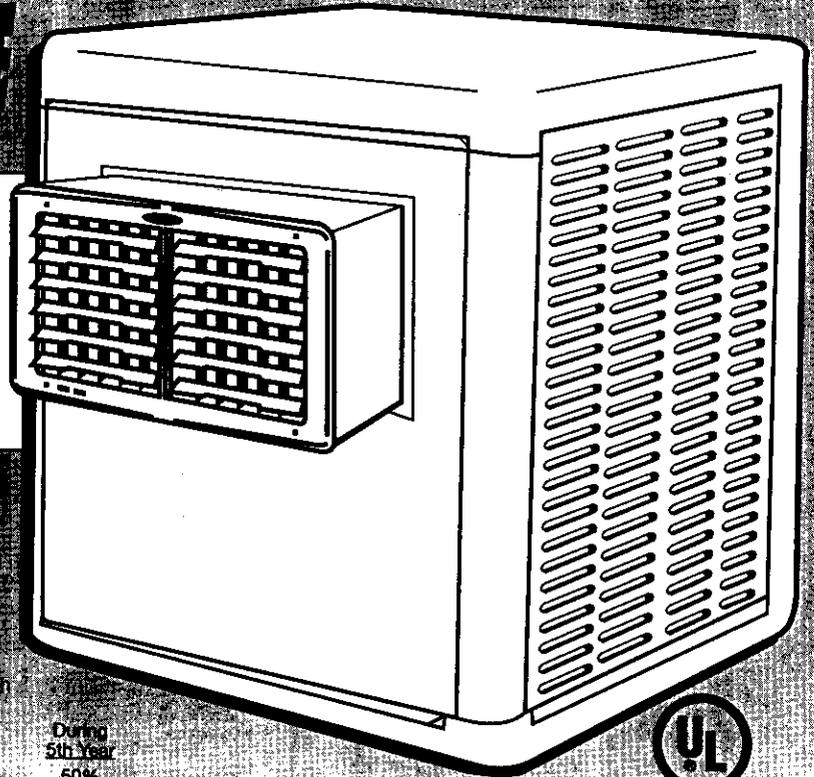


OWNER'S GUIDE

MODEL RW3000 WINDOW EVAPORATIVE COOLER

USE AND CARE MANUAL

**NOTE! READ AND SAVE THIS MANUAL
"IMPORTANT SAFETY INSTRUCTIONS"**



WARRANTY
This warranty is extended by AdobeAir to the original purchaser of this evaporative cooler. It is limited to the original purchaser and is void if the cooler is not used in accordance with the instructions. The warranty is limited to the original purchase price of the cooler (based on the original sales receipt, not the retail price).

	During 1st Year	During 2nd Year	During 3rd Year	During 4th Year	During 5th Year
Customer pays:	No Charge	No Charge	30%	40%	50%

Credit will be allowed based on the original purchase price of the cabinet only, excluding accessories and installation charges.

- II. One Year Coverage applies to all other components (except cooler pads) and accessories furnished by AdobeAir. We will exchange the part (except cooler pads) which fails as a result of a defect in material or workmanship during the first year after date of initial purchase.
- III. What this warranty does not cover:
 - A. 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 AdobeAir, including, but not limited to, motors and pumps.
 - B. This warranty does not cover any damage or malfunction unless caused by a defect in material or workmanship. Damage or malfunction which is not covered by this warranty includes, but is not limited to, water damage to the motor, abuse, misuse, alteration, improper installation / maintenance / operation or transportation damage.
 - C. This warranty does not cover replacement of cooler pads. Cooler pads are disposable items and their life expectancy depends on local conditions.
 - D. This warranty does not cover the cost of a service call at the site of installation to diagnose cause of trouble, the cost of labor to install the part, or mileage allowance to or from the site. AdobeAir does not pay freight/postage on any exchange.
 - E. This warranty does not cover evaporative coolers installed and operated outside the continental United States.
- IV. Do not use cooler cleaners, cooler treatments, or other additives in this evaporative cooler. The use of any of these products will void your warranty and may impair the life of your cooler.
- V. To obtain service under this warranty, contact the dealer where you purchased your cooler. As a final step, if you cannot locate your dealer, contact Customer Service, AdobeAir, Inc., 500 South 15th Street, Phoenix, Arizona 85034.

This warranty is the only warranty extended by AdobeAir to suppliers and/or purchasers of this evaporative cooler. AdobeAir disclaims all other warranties, express 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 warranty period. AdobeAir shall not be liable for any incidental or consequential damage 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, so 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.

Since AdobeAir, Inc. follows a policy of continuous product improvement, it reserves the right to change design and specifications without prior notice or liability.

Note: Your warranty does not cover shipping damage. Report all shipping damage at once to dealer or carrier making delivery.

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INTRODUCTION

Evaporative cooling works on the principle of heat absorption by moisture evaporation. When a swimmer leaves the water on a windy day, he feels cool because the moisture on his body is evaporating and absorbing heat.

Your evaporative cooler draws exterior air into special pads soaked with water, where the air is cooled by evaporation, then circulated into your home.

Your evaporative cooler makes the best possible use of the evaporative process by metering the flow of water, distributing it evenly through the filter media, and blowing a steady stream of cooled air into your home. The air is then channeled through the building and vented out of the home through open windows, doors or vents.

INSTALLATION

Mounting Of Your Model RW3000 Evaporative Cooler

Important: Read these instructions carefully before installing, operating or servicing your evaporative cooler.

SAFETY

Caution: Unplug the electrical cord to the cooler before attempting to work on or service your cooler.



1. Check local codes and utility standards. The installation must comply with their rules.
2. Your cooler will run on 120 volt AC, 60 Hz (cycle) current only.
3. Use a grounded outlet to protect you from shock. If the outlet you plan to use is a 2-prong type, do not remove the plug grounding prong. Have an electrician replace the 2-prong outlet with a grounded 3-prong outlet.

Location

Install cooler so only fresh outside air is permitted to enter the cooling system, preferably on side of building facing prevailing winds. Install unit through window of room where maximum cooling is desired. Air flow can be directed through house by using other windows as exhaust openings. Avoid installing unit inside closed in areas, such as an attic or storage room which restricts free air movement around cooler. Avoid installation near vent pipes, kitchen exhaust, etc., as odors or fumes may be drawn into units.

Electrical Wiring

Your unit has been pre-wired at the factory so further wiring is not necessary. Figure 1 shows the wiring diagram of your unit in case of electrical component replacement.

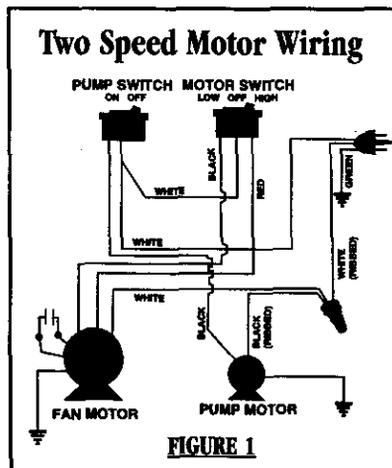


FIGURE 1

Power Supply

Be sure to connect to 120 volts, 60Hz grounded power supply. Note: Improper voltage will burn out motor and pump windings and void the warranty.

Mounting Window Models

Assure that the mounting surface is strong enough to bear the weight of the cooler when in use. Remember that when the system fills with water, the cooler will be much heavier than when dry. The most common method of installation involves mounting the cooler on a flat support or stand provided by the installer. The duct and grille portion are placed through

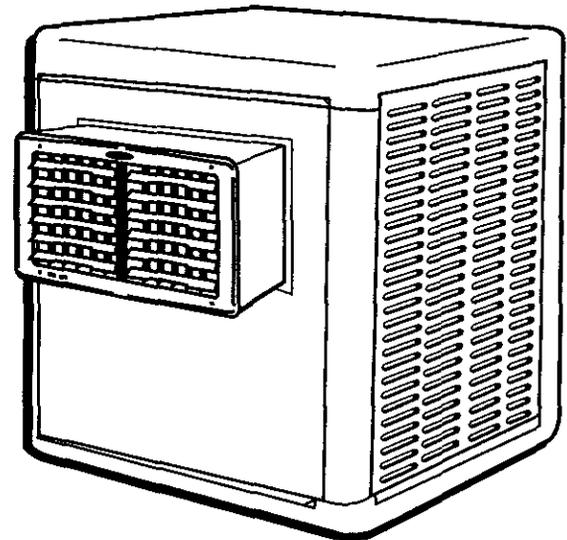
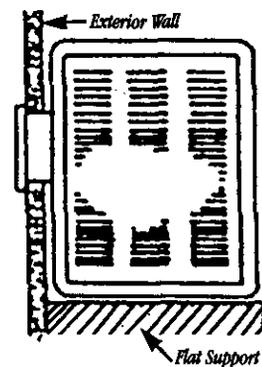


FIGURE 2



the window opening and window panels are fitted into position (see Figure 2).

Another method of installation involves the use of a chain kit and standoff hardware.

To Install Cooler Using A Chain Kit

1. Attach screw hooks to outside window frame approximately two feet above cooler. Be sure hook is inserted to full depth in frame for maximum strength. Attach chain to each hook.
2. If your cooler does not have holes predrilled, drill 3/16" holes 1" above each pad frame corner at rear of cooler cabinet. Bolt

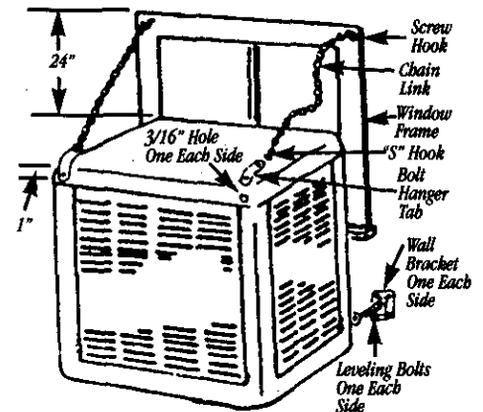


FIGURE 3

hanger tabs to cooler (notched end up) using machine screws and nuts provided.

3. Place leg leveling bolts in holes in cabinet front with nut, washer and angle to outside of cabinet.
4. Check window sill offset... to determine the thickness of the wood strip for clearance. This clearance will provide space for the grille. Secure wood strip with nails or screws. Fasten the two brackets with screws provided, making sure they are square with the window sash.
5. Place cooler in window allowing duct to rest on sill. Using chain link that brings cooler closest to level position, place link over hanger tab. Turn link to lock it into notches on hanger tab.
6. Place leg leveling bracket on leg leveling bolt with bracket against wall. Adjust bolts and chain to level cooler. Secure brackets to wall with eight #10 Phillips head screws provided.

Note: Cooler may need to be re-leveled later to compensate for added weight of water.

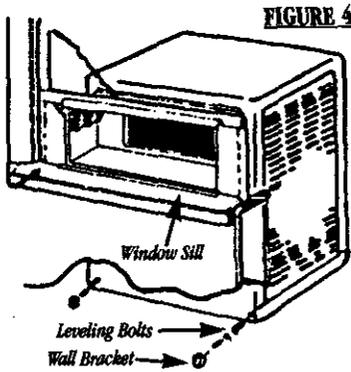


FIGURE 4

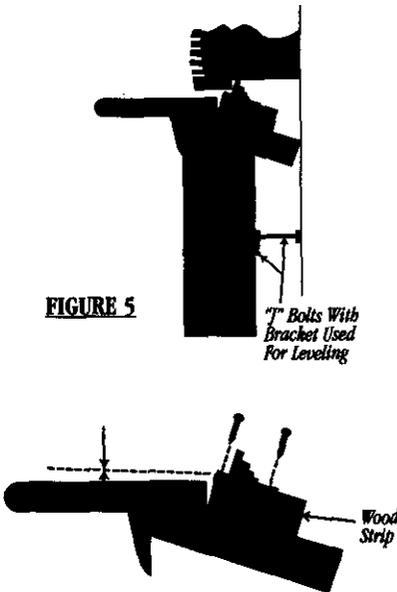


FIGURE 5

Overflow Standpipe and Drain Line Installation

1. Install overflow drain bushing in bottom of cooler.
2. Screw overflow standpipe into drain bushing and tighten snugly to prevent leakage.
3. Slide rubber washer over drain bushing, push drain bushing through bottom of cooler, and tighten nut.
4. Connect (copper/pvc/garden hose) to drain bushing and drain in accordance to local codes (see Figure 6).

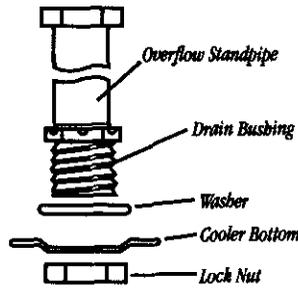


FIGURE 6

Connect Water Supply

A water valve should be installed at a convenient location to allow the water supply to be turned on and off (see Figure 7); 1/4" tubing is used to provide water to the cooler. A water connector kit, available from your dealer, provides the necessary items.

Note: Soft water equipment should not be attached to any water lines going to a cooler. "Soft water" will cause corrosion and decrease effective life of a cooler.

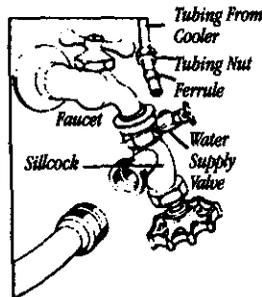


FIGURE 7

Float Installation

The float valve is taped to the bottom of the cooler to avoid shipping damage. If the cooler is going to be permanently installed, attach the float to the side of front panel inside the cabinet with hole provided (see Figure 8). Connect copper tubing from water supply to cooler and connect to tube (from float valve) protruding from side of front panel using ferrule union provided in parts package.

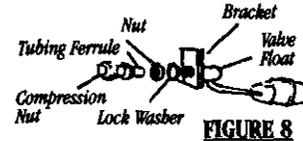


FIGURE 8

Adjusting Water Level and Float Valve

Fill reservoir as follows:

1. Turn water supply on. Check for good pressure and flow from float valve.
2. When float valve shuts off, check water level. Water level should be from 1/2" to 1" below top edge of overflow standpipe.
3. Adjust float valve by bending the rod (see Figure 9).

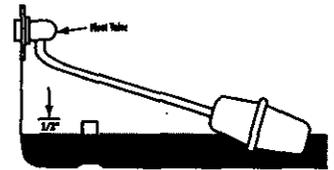


FIGURE 9

Caution: To reduce the risk of electric shock, connect only to an outlet provided with a ground fault circuit interrupting device.



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

Warning: Never wash your cooler cabinet with a garden hose; water may harm motor and pump or seep into blower housing.

Regular Maintenance

Regular, careful maintenance will allow you to enjoy a long, more efficient service life from your cooler. Before starting any maintenance operation, read thoroughly all operating and maintenance instructions and observe all cautions and warnings.

Changing Cooler Pads

Your cooler should be changed at least twice a year... at the beginning of a season and midway through.

But your pads may need to be changed more frequently, depending on local air and water conditions.

For instance, in areas where mineral content of the water is high, deposits may build up in the cooler pads, restricting air flow.

Replace pads as follows:

1. Remove pad assembly from cabinet.
2. Carefully remove all pads from retainers. Remove and discard pads (see Figure 11).
3. Using a mild detergent, wash dirt and scale from pad frames. Wire brushing is not recommended. Rinse with fresh water.
4. Lay new pad in frame, starting at trough end, making sure pad is snug against trough and outer edges with no air spaces.
5. Pad thickness should be uniform across the frame. **Note:** Pad must completely fill frame or hot air may enter house.
6. Replace pad retainers and lock under edge of frame. Sharp points must be buried in pad.
7. Pre-soak pads and reinstall pad frame.
8. Start pump and allow troughs to fill... check water level in troughs by slightly tilting each pad frame out.

Press Retainer Wires Down To Clear Frame

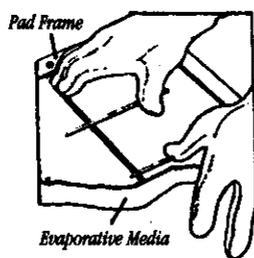


FIGURE 10

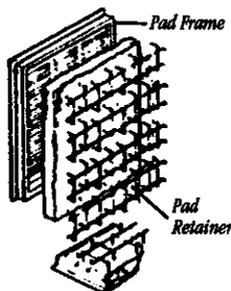


FIGURE 11

Troubleshooting

The following troubleshooting guide is intended to address the most common symptoms and is by no means exhaustive. If symptoms persist, call a qualified serviceman. Electrical work should be completed by a certified electrician. Turn off all power to the cooler before attempting to troubleshoot any of the following symptoms.

SYMPTOM	POSSIBLE CAUSES	REMEDY
Unit fails to start or deliver air	<ol style="list-style-type: none"> 1. No electrical power to unit <ol style="list-style-type: none"> A. Fuse blown B. Circuit breaker tripped C. Cord(s) unplugged or damaged 2. Motor overheated and/or frozen 	<ol style="list-style-type: none"> 1. Check power <ol style="list-style-type: none"> A. Replace fuse* B. Reset breaker* <i>* If condition persists, call electrician</i> C. Plug in cord(s) or replace if damaged 3. Replace motor
Unit starts but air delivery inadequate	<ol style="list-style-type: none"> 1. Lack of sufficient air exhaust 2. Insufficient water / pad not wet <ol style="list-style-type: none"> A. Pads plugged B. Dry or open spots on pads C. Trough holes clogged D. Pump not working E. Loose connections in water system F. Distributor clogged or corroded 	<ol style="list-style-type: none"> 1. Open windows or doors to increase ventilation 2. Check water distribution system <ol style="list-style-type: none"> A. Replace pads B. Repack pads C. Clean troughs and unplug holes D. Unplug pump. Clean impeller housing of foreign matter and reinstall E. Check for leaks and correct F. Clean or replace
Water draining from overflow standpipe	<ol style="list-style-type: none"> 1. Float arm improperly adjusted 2. Seat in float valve leaking 3. Standpipe not tight 	<ol style="list-style-type: none"> 1. Adjust float 2. Replace float valve 3. Tighten standpipe
Knocking or banging sound	<ol style="list-style-type: none"> 1. Bearing dry 2. Wheel rubbing blower housing or rotating off-balance 3. Loose parts 	<ol style="list-style-type: none"> 1. Replace motor. 2. Inspect blower shaft, collars, belt and pulley alignment and motor mounting 3. Resecure or reconnect
Blower shakes or rattles	<ol style="list-style-type: none"> 1. Loose Blower Wheel 	<ol style="list-style-type: none"> 1. Inspect and adjust, or replace as needed.
Excessive humidity in house	<ol style="list-style-type: none"> 1. Inadequate exhaust 	<ol style="list-style-type: none"> 1. Open doors or windows to increase ventilation
Musty or unpleasant odor	<ol style="list-style-type: none"> 1. Stale or stagnant water in reservoir 2. Pads mildewed or clogged 3. Pads not completely wet before cooler is turned on 	<ol style="list-style-type: none"> 1. Drain, flush and clean reservoir, install bleed-off kit 2. Replace pads 3. Turn on water before starting unit

Lubrication

The pump and blower motors do not require lubrication.

Replacement Parts

Your window cooler is a high-quality evaporative cooler designed to give years of trouble-free service when it is properly maintained. However, should replacement parts be required, they are available through your dealer.

MODEL RW3000

Motor Kit	RK 229A
Pump	PMPM451
Float	RF100A
Switch, Motor	1005108002
Switch, Pump	1005107001
Pad Assembly for all sides	PF280A
Air Discharge Grill	MA 121801
Blower Wheel Assembly	RF020116
Standpipe Drain Assembly	SP200B

NOTE

Do not use cooler cleaners, cooler treatments, or other additives in this evaporative cooler. The use of any of these products will void your warranty and may impair the life of your evaporative cooler.