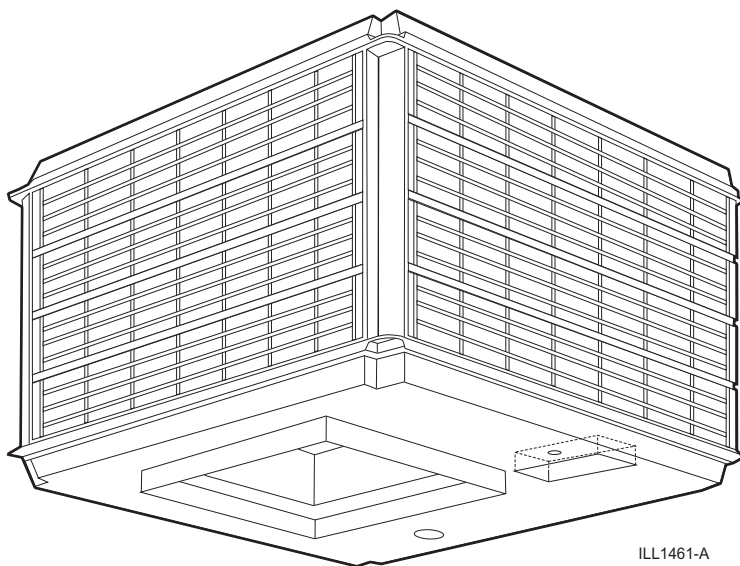


OWNER'S MANUAL

EA Evaporative Cooler



ILL1461-A

(English) (EA)

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INTRODUCTION

Congratulations on choosing a new Braemar cooler for your home.

Your cooler is built from the highest quality materials and engineered to provide many years of economical, trouble free cooling.

Please take a few minutes to read these instructions so you have a full understanding of how to operate your cooler. Your installer should demonstrate the features and procedures set out in these instructions. The installer should also provide you with a Model and Serial number, which can be filled out on the last page.

Keep these instructions in a safe place for future reference.

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

Children should be supervised to ensure that they do not play with the appliance.

EFFECTIVE COOLING

To provide efficient cooling or ventilation the building must have sufficient exhaust openings to outdoors in the form of doors, windows or other vents. To assist air circulation, open windows or doors that are furthest from the outlet vent in each room. In every room that has an outlet vent, provide an exhaust opening about 2 or 2.5 times the vent size of the room. Where the design of the building prevents adequate exhaust, consideration should be given to the provision of mechanical extraction such as an exhaust fan.

Important Notes!

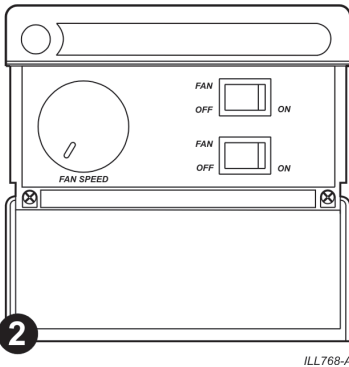
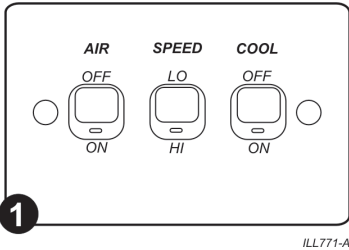
In areas where temperatures can cause water supply pipes to freeze, a drain down facility should be provided during the installation.

This drain down facility must be activated prior to freezing conditions, to avoid possible damage to the cooler components.

Two Speed and Variable Speed Units.

Your evaporative air conditioner has control switches to provide for the benefits of fresh air ventilation and cooling at high and low air flows. There are two types of control switches available: Two Speed (Fig. 1) and Variable Speed (Fig. 2).

Your control panel offers independent control for the fan and cooling functions.



To Start the Air Conditioner

- (1) Switch the COOL control on.
- (2) Turn on the AIR (fan) control and using the SPEED switch (HI/LO switch or Variable knob), select the fan speed you require.

When ventilation only is required (air flow with no cooling) turn the COOL switch off, and select the fan speed to provide the air flow you require.

To Stop the Air Conditioner

Switch the COOL control off, then switch the AIR control off.

Using Your Air Cooler

Evaporative air coolers provide very effective cooling by drawing outside air through filter pads saturated with water. This water washes the air and cools it by the process of evaporation. There are a number of operating techniques and circumstances of which you should be aware to get the best performance from your evaporative air cooler.

To provide effective cooling or ventilation, the air cooler must be operated with sufficient openings to exhaust the air. For example: windows, doors or ducts. The location of the opening(s) will determine the pattern of cool air flow. The following are the minimum opening sizes required in square metres:

UNIT	AREA (m ²)
EA90	0.4
EA120	0.6
EA 150	0.8

In light wind conditions more cooling can be obtained by opening additional windows and doors. In windy conditions close openings facing the wind.

Generally, openings opposite the supply vents are best. Some experimentation will soon show the arrangement most suited to your requirements. For a multiple outlet system, this is generally 1 (one) window opened 100 to 150 mm per outlet.

For a short time, when operating with new filter pads, you may detect an odour like "wet timber". This is the filter material becoming conditioned to use.

In many areas the water supply is quite hard. When this water is evaporated through the filter pads, the hardness is deposited as a scale on the pad. To reduce this scale build-up and to retain efficient filter pads a small amount of water is bled from the system.

The continuous drain of small amounts of water ensures that fresh water is added to dilute any build-up of scale or salts. The bleed rate for your air conditioner will depend on local operating conditions and will be adjusted during installation.

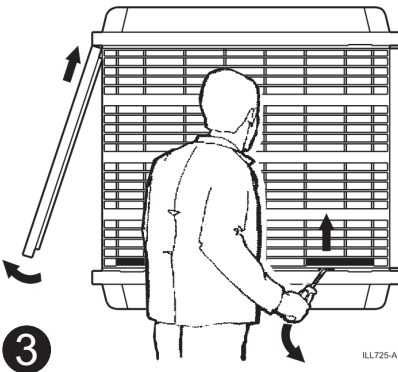
Maintenance

To ensure that your air cooler continues to provide reliable service for many years, it requires some routine maintenance. There are two forms of maintenance:

- (1) pre and post season maintenance, and
- (2) preventative maintenance.

Pre-season Maintenance

- Turn off the water supply.
- Turn off the power supply.
- Remove the filter pad frames. Insert a screwdriver into the slots at the bottom of the pad frames and lever upwards. Pull the bottom of the pad frames away from the unit, then lower the frames out of the cabinet (Fig. 3).
- Turn off the isolating switch.
- Hose both sides of the filter pads **CAREFULLY (do not use excess water pressure as this may create "holes" in the pad material)**. Ensure that the wood wool pad material is evenly distributed, especially make sure that there is no gaps or holes at the TOP of PADS.
- Check and, if necessary, clean the water spreaders located inside the roof above the filter pads.
- Drain the water from the unit by removing the overflow or overflow bleed funnel. **Do not replace this item until next season. Do not lose the "O" ring seal.**
- Check pulleys for wear and correct alignment.
- Check "V" belt for wear.
- Thoroughly clean and dry the bottom of the water tank.



- Replace filter pad frames. Ensure they are the correct way up.

- If water flow appears low, there may be a problem with foreign material clogging the pump or pump strainer. To correct, remove pump, dismantle base, clean and re-assemble.

Post-season Maintenance

- Turn off the power supply to the cooler.
- Remove pad frames
- Turn off the isolating switch inside the cooler.
- Remove pad frames. Clean them by hosing them with clean water, but do not use excess pressure because you might create holes in the pad media.
- Remove and clean the special water "spreader" plates located under each edge of the top panel. Do not disconnect from water hose. When replacing them, check underneath to see that the spreaders are correctly located in the notches under the top panel.
- Drain all the water from the cooler by removing the overflow or overflow bleed funnel. Do NOT put it back until next season. Do not lose the O-ring seal.
- Disconnect the water supply pipe from the tank. Make sure no water is left in the float valve.
- Clean the bottom tank thoroughly.
- Replace pads frames.
- Cover the cooler for winter if desired.

Preventative Maintenance:

All units can benefit from routine preventative maintenance. This may be required more frequently if you are operating under harsh conditions. To perform Preventative Maintenance, follow the instructions for 'Pre-Season Maintenance' at regular intervals.

Check Your Local Regulations:

In some areas and for some commercial installations local regulations have specific requirements for the maintenance of evaporative air conditioning systems. Generally these involve regular cleaning and maintenance at (3) monthly intervals or more frequently if necessary.

TROUBLESHOOTING GUIDE

It will not take long for you to get to know the features of your air conditioner, but in case you encounter difficulties here are a few hints to help keep you cool:

PROBLEM	POSSIBLE CAUSE	SUGGESTED REMEDY
<i>Inadequate cooling.</i>	Dry pads, or lack of water while air conditioner operating.	Check that the tap is turned on. Check pump and pump strainer. Check water distribution systems. Ensure pump (COOL) is turned on.
	Insufficient air discharge openings to allow air to exhaust from areas being cooled.	Adjust door / window opening.
	Pads shrunk away from the top corners (woodwool pads only).	Tease the woodwool out evenly or replace pads.
	Air restriction in ductwork.	Call Dealer to investigate and rectify.
<i>No air flow.</i>	Clogged or Dirty Filter pads.	Clean or replace pads.
	Circuit breaker tripped or unit fuse blown.	Replace the fuse specific to that unit.(See Braemar Installation Manual).
	Broken fan belt	Replace belt.
	Electrical fault.	Call Service (see Page 5).
<i>Air flow, but not cool.</i>	Insufficient water reaching filter pads.	Ensure water supply to unit is turned on. Clean pump filter. Call Service to repair.
<i>Fan stops and then restarts.</i>	Pump failure.	The fan motor is fitted with an automatic thermal overload protector which will be reset when the motor cools down. If the motor stops and starts continuously, it should be investigated for a fault by a qualified Technician.
	Motor overload.	
<i>Continuous overflow of water.</i>	Float valve adjustment. Incorrect bleed rate.	Adjust float valve. Adjust bleed rate. Included on each bleed tray are plastic plugs with matching holes. With all plugs inserted, bleed rate is maximum. If you decide that the amount of bleed is too much, remove the plug/s from the bleed tray one at a time until the desired amount is achieved.

CHECKLIST

- Unit level and secure.
- All roof or other penetrations properly sealed.
- Ductwork completed and air distribution checked and outlets correctly set.
- Mains wiring complete.
- Control switch correctly installed.
- Belt tension and alignment correctly adjusted.
- Fan runs in correct direction at all speeds (clockwise when viewed from pulley side).
- Motor power (tong) tested.
- Power input to motor recorded
 High amps.
 Low amps.
- Motor pulley adjusted and tight on Shaft.
- Water bleed/drain/overflow fitting correctly installed.
- Water level and float adjustment checked.
- Filter material (wood wool) evenly packed in all pad frames.
- Pump runs and water evenly distributed to all filter pads.
- Bleed rate adjusted to lt/min.
- All control functions checked.
- Owner instructed in correct operating procedure .

Owners Name: _____

Telephone: _____

Address: _____

Dealer: _____

Installer: _____

Date Installed: _____

Model No.: _____

Serial No.: _____

If you have followed the instructions and still have problems, the Braemar service network is only a phone call away. They can help with any aspect of operation you may not be sure of, or arrange for a service person to fix any faults.

However, please bear in mind that if a service call reveals no fault with the Braemar unit, you may be charged for the call, even during the warranty period. In the first instance we recommend you contact the retailer from whom you purchased the unit. They will be familiar with your installation and will be anxious to rectify any difficulties.

FREECALL

1300 650 644

For all your Braemar warranty and service needs. Or contact your local Braemar dealer direct

**When you contact your Dealer regarding service
or warranty please quote the cooler model
number and serial number as shown below.**

Affix serial & model
number sticker here

It is the policy of Seeley International to introduce continual product improvement. Accordingly, specifications are subject to change without notice. Please consult with your dealer to confirm the specifications of the model selected.



Warranty Service
Australia 1-300-650-644
seeleyinternational.com

Braemar®