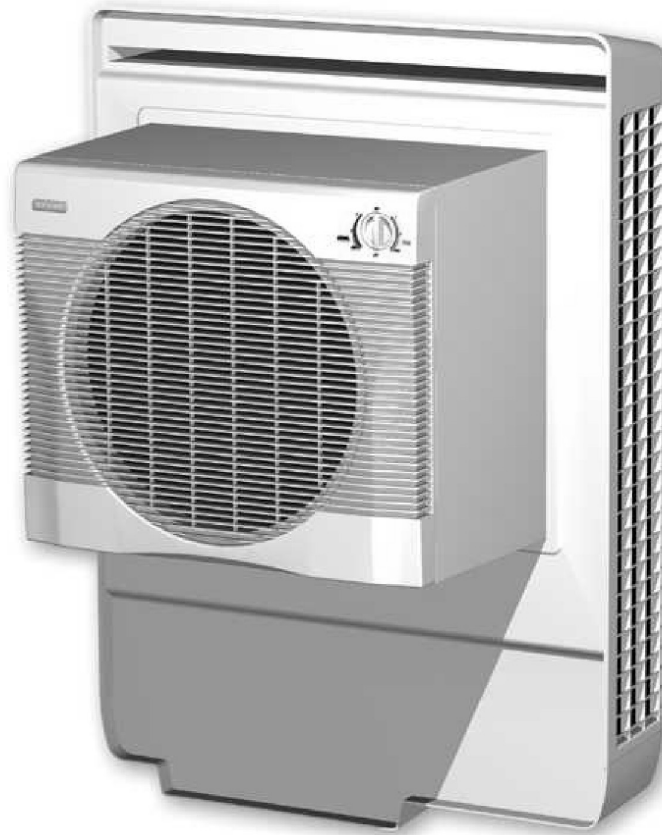

Owner's Manual



Bonaire Evaporative Cooler

Please keep this important manual in a safe place. It is the owner's responsibility to ensure that regular maintenance is carried out on this Air Conditioning product. Failure to do so will void all guarantees beyond statutory and legal requirements.



Introduction

Thank you for purchasing a quality Bonaire Evaporative Cooler. We care about your safety and would ask you to spend a few minutes reading these simple instructions before installing or operating this product.

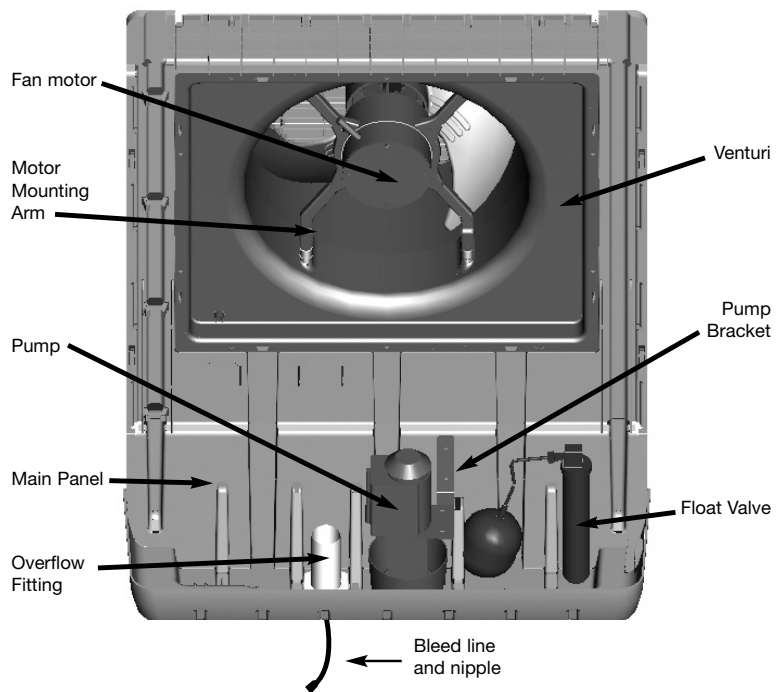
Safety !



Read carefully all of these instructions prior to installing and operating the unit.

- **Read and Save these Instructions. Do not throw these Instructions away.**
- Installation of this cooler in any manner not prescribed by these instructions could cause a safety issue and WILL void any warranty.
- Use only with a 240V, 50Hz grounded socket outlet suitable for the plug supplied.
- Unplug the cooler and position the rotary control knob to the OFF position when installing, servicing or cleaning.
- Do not operate cooler with rear panel removed.
- Do not operate cooler with a damaged cord, plug or other component.
- Do not run the power cord under carpet or other floor covering.
- Do not use the cooler with an improperly grounded socket outlet.
- Do not alter or modify this cooler.
- Do not allow children to install, operate or service this cooler.
- **WARNING:** To reduce the risk of fire or electric shock do not use this fan with any solid state speed control device.
- Use only qualified electricians for replacement or servicing of switches, or electrical motors and components in this cooler.

This Window Mounted Cooler is suitable for installation in windows (either Sash hung or sliding) with a minimum opening width of 650mm (26") and Height of 550mm (22"), please ensure that the directions for correct mounting are adhered to for the SAFE operation of this Cooler.





Installation

TOOLS / MATERIALS REQUIRED FOR INSTALLATION

- Drill (Power or Cordless)
- Drills for drilling pilot holes into window frame 1/8" (3.2mm) Drill - or appropriate for size of Screw used.
- Phillips Head Screw Driver
- 3/4" Philips Head Screws for affixing Window Infill Panel
- Silicone for sealing Window Infill Panel
- 1/2" BSP connection fittings.

INSTALLATION

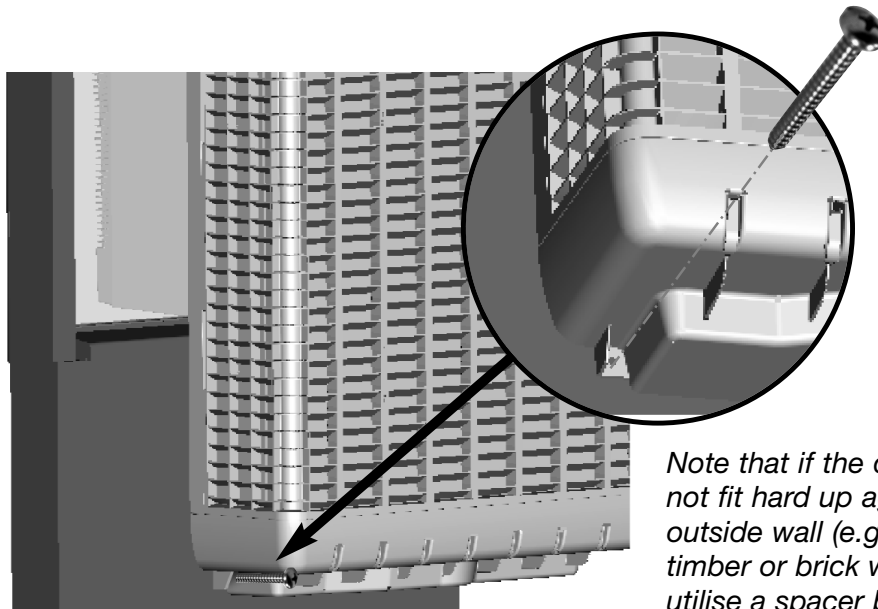


Note that it is not necessary to remove the rear panel from the unit for installation.

Do not plug the cooler power in until installation is complete.

EXTERNAL FIXING OF THE UNIT

- Ensure that the location chosen to mount the cooler is strong enough to support the operating weight of the unit. The unit's nominal operating weight is 42 kg / 93 lbs.
- Ensure that the window opening is large enough for the neck of the cooler (nominally 550mm (22") high by 650mm (26") wide).
- Position the cooler through the window (two or more people will be required for this) so that the unit is hard up against the outside wall of the house.

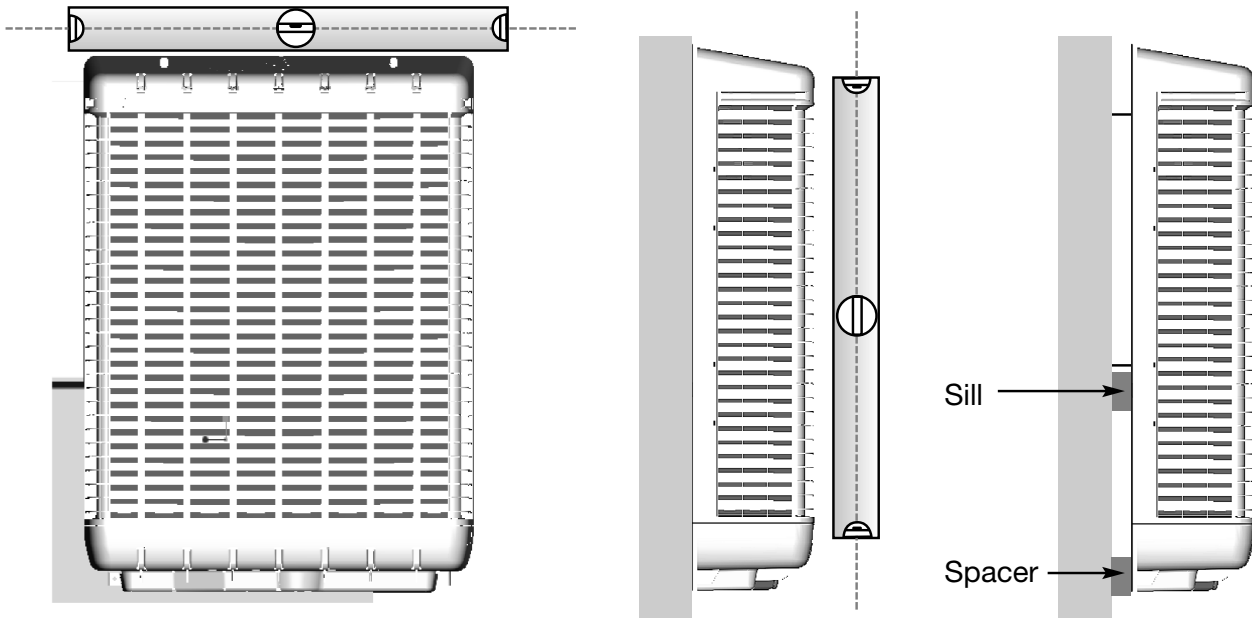


Note that if the cooler does not fit hard up against the outside wall (e.g. a protruding timber or brick window sill), utilise a spacer block of wood (not provided) which must be attached to the wall (the unit is then fixed to this wood).

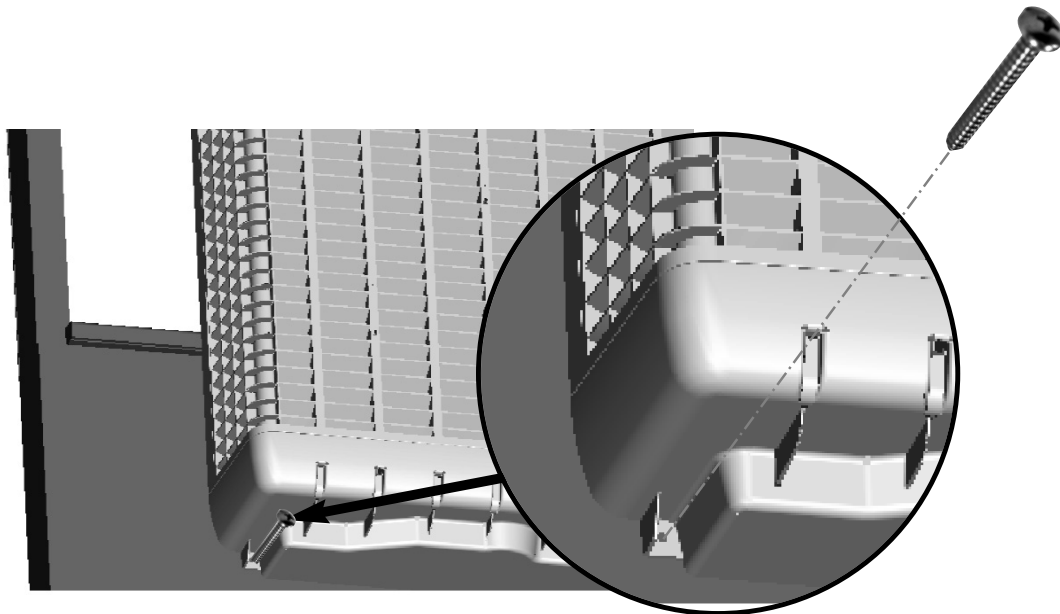


Installation

- Ensure that the unit is installed level in the two positions illustrated prior to fixing the cooler.



- Use the two 'Wallmate' screws provided to fix the cooler to the outside of the house if a 'stucco-type' wall is being used. (Note that if the unit is not hard up against the wall, these fixing screws will go into the spacer block all ready installed).
- For solid walls, brick or masonry, use suitable masonry lag anchors.
- Place the unit in position, mark screw positions, remove unit then drill pilot holes for timber walls (1/8" or 3.2mm).
- Replace unit in window, fit screws.





Installation

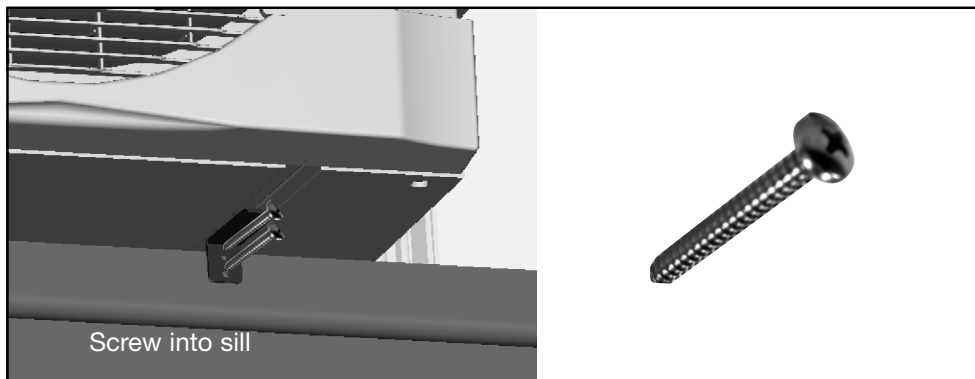
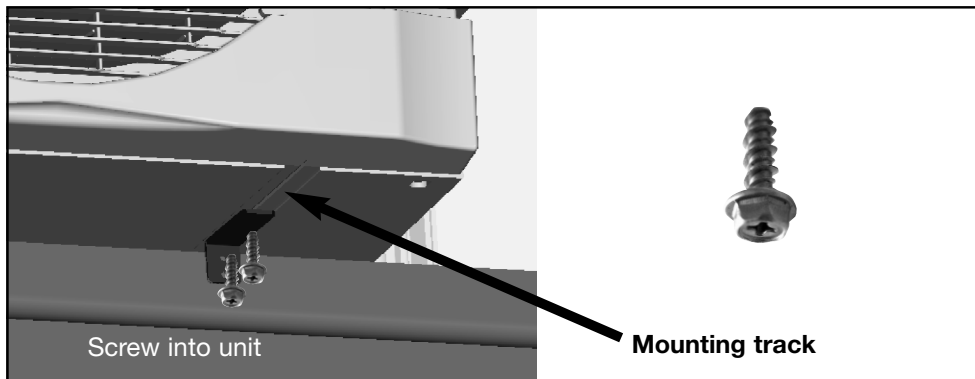
WATER CONNECTION

- Install a water supply line from the closest cold water point to the cooler. The water supply line must be installed by a licensed person and must conform to all standards, state & Local regulations. A ¼ turn ball isolating valve must be installed on the supply pipe near the unit for ease of maintenance. Do not use duo or non-return valves of any kind including stop taps with jumper washer
- The overflow is factory fitted. **The bleed hose protruding through the overflow fitting SHOULD bleed water during normal operation at a rate between 6 - 12 liters per hour. This is normal and is designed to preserve the quality of the Cooler and Cooling efficiency of the Unit. If required this Bleed water can be plumbed away using standard 'over-the-counter' garden fittings.**
- The float valve is factory set and should require no further adjustment at time of installation.
- Connect water supply to the ball valve fitting using 1/2" BSP connection fittings.
- Fill the tank with water.



INTERNAL FIXING OF THE UNIT

- **IT IS MANDATORY THAT THE METAL FIXING BRACKETS SUPPLIED ARE FITTED TO ENSURE A SECURE INSTALLATION.** Utilise the 2 fixing brackets and 4 screws provided as shown in the diagram to ensure the unit is adequately locked into position.
- Ensure that the bracket is aligned within the indicated mounting track area. Drill 2x1/8" (3.2mm) holes and insert screws into unit as per diagram and repeat for window frame with appropriate screws.
- Ensure that the cooler is now fixed rigidly to the house structure





Installation

- Close window against unit. Measure the gap of the opening & cut the in-fill panel to fit in the gap left.
- The infill panel supplied is for use with hopper style window only.
- Fit in fill panel with screws (length of screws must not exceed 1" or 25mm in length) and seal any gaps with silicone.
- Check that the unit is still level using spirit level on top edge of rear panel.



Your cooler is now ready for commissioning.

COMMISSIONING

- Check that another door or window in the room is open to allow air to exhaust to other parts of the house.
- Turn the water supply to the cooler on.
- Plug the cooler into a 240V grounded appliance socket on the inside of the house and switch the socket on.
- Turn the unit on to FAN mode and check the operation of the three speed fan.
- Rotate the control knob to COOL mode and operate the three speed fan and pump.
- Leaving the unit in the COOL mode, check that a constant small stream of bleed off water is coming from the overflow tube. This bleed off is designed to reduce mineral build up on the CEL-dek filter pads.
- You may notice a wet paper smell as the water circulates around the filter pads. This is normal during the commissioning phase and at the beginning of each season when the unit is operated after the winter break. It will only last for a short time.



Operation Instructions

COOLER OPERATION

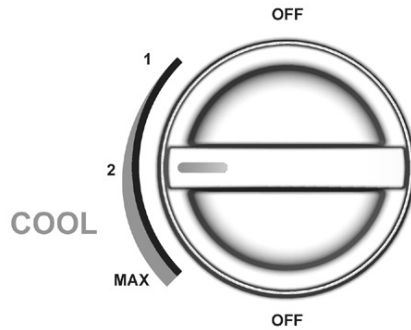
Before Starting

- Always ensure that there is another open window or door through which the air can exhaust to other parts of the house.
- Ensure that the filters are kept clean.
- Ensure that the water to the cooler is turned on.
- Ensure the plug is connected to a 240V grounded appliance socket on the inside of the house and turned on.

Operating the unit

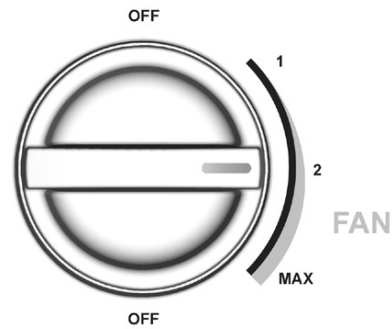
- Selecting Cooling Mode -
Move control knob to "Cool" side
Select desired fan speed

- 1** **Sleep Mode**
- 2** **Normal Operation**
- Max** **Quick Cool down**



- Selecting Fan Mode –
Move the control knob to the "Fan" side (pump isolated) Select desired fan speed

- 1** **Sleep Mode**
- 2** **Normal Operation**
- Max** **Quick Cool down**



- To turn the cooler off, rotate the control knob to the **OFF** position



Maintenance



Before commencing any maintenance work on your unit, ensure it is disconnected from the power supply.

Note: It is essential that your evaporative air conditioner is maintained in accordance with this manual. Failure to do so will affect the life of the product and reduce the level of efficiency.

THIS MANUAL CONTAINS A 5 YEAR MAINTENANCE PLANNER TO USE IN CONJUNCTION WITH THESE INSTRUCTIONS. See page 13.

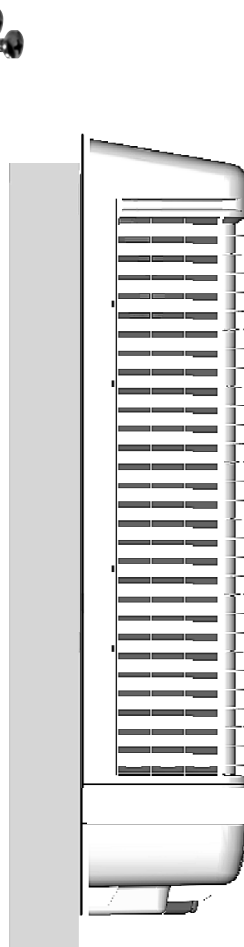
STEP 1

Remove rear panel fixing screws (4 off).



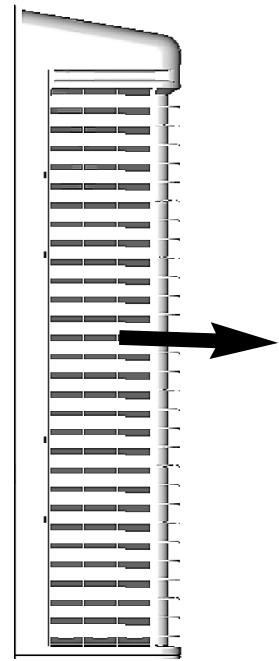
STEP 2

Lift the rear panel vertical fashion 3" or 75mm.



STEP 3

Pull rear panel away from unit.



Note: pump hose will be attached to rear panel. Should the hose come off during removal of rear panel care should be taken to re-attach before replacing rear panel.



Maintenance

GENERAL

Filter Pads

Visually check CEL-dek pads for damage or blockage. Gently hose down pads from both sides to remove any build up of salts, dust and pollen. In dusty areas more regular cleaning is recommended. Check the water distributor, making sure it is clear and free from blockage. Failure to do so may lead to uneven water distribution and therefore less efficient operation.

Water Tank

It is important to keep the water tank clean and free from sediment and algae growth. Using a small soft bristle brush, brush all surfaces in the tank while it is full of water (DO NOT FORGET THE PUMP STRAINER). Turn off the water inlet to the unit (an Isolation Valve should be fitted to the water inlet before the Float Valve or at the water supply faucet). Drain the tank by removing the overflow fitting. It may be necessary to repeat this procedure if the tank is very dirty.

Water Distributor

Check the water distribution system for blockage. Check the delivery tube for kinks or holes. Note: Water supply line to float valve must be flushed before connecting.

Water Level / Float Valve

The water level should be set at nominally 65 – 75mm from the base of the overflow fitting. The float valve is a mechanical type and is factory set. If it requires adjustment keep bends tight. If the valve is leaking, it may require replacement.

Note: Water supply line to float valve must be flushed before connecting.

Note: Some discharge from the overflow may be experienced after shut down due to water draining back from the Celdek pads. This is normal.

Motor and Fan

Check that the fan spins freely and that there is no build up on the blades. Check the motor for corrosion and spray with an anti corrosive agent if necessary.

Bleed Off

The bleed off should be checked to ensure it is continuous and that there is no build up of mineral deposits in or on your air conditioner. White deposits indicate high mineral content and the Bleed Off system should be checked. If it is running as per normal and the bleed nozzle is clean and the deposits are still forming, then more regular maintenance is required.

Pump

Check the pump spins freely and that the strainer is clean. Ensure the rubber water slinger is in place on the stainless steel shaft under the motor.



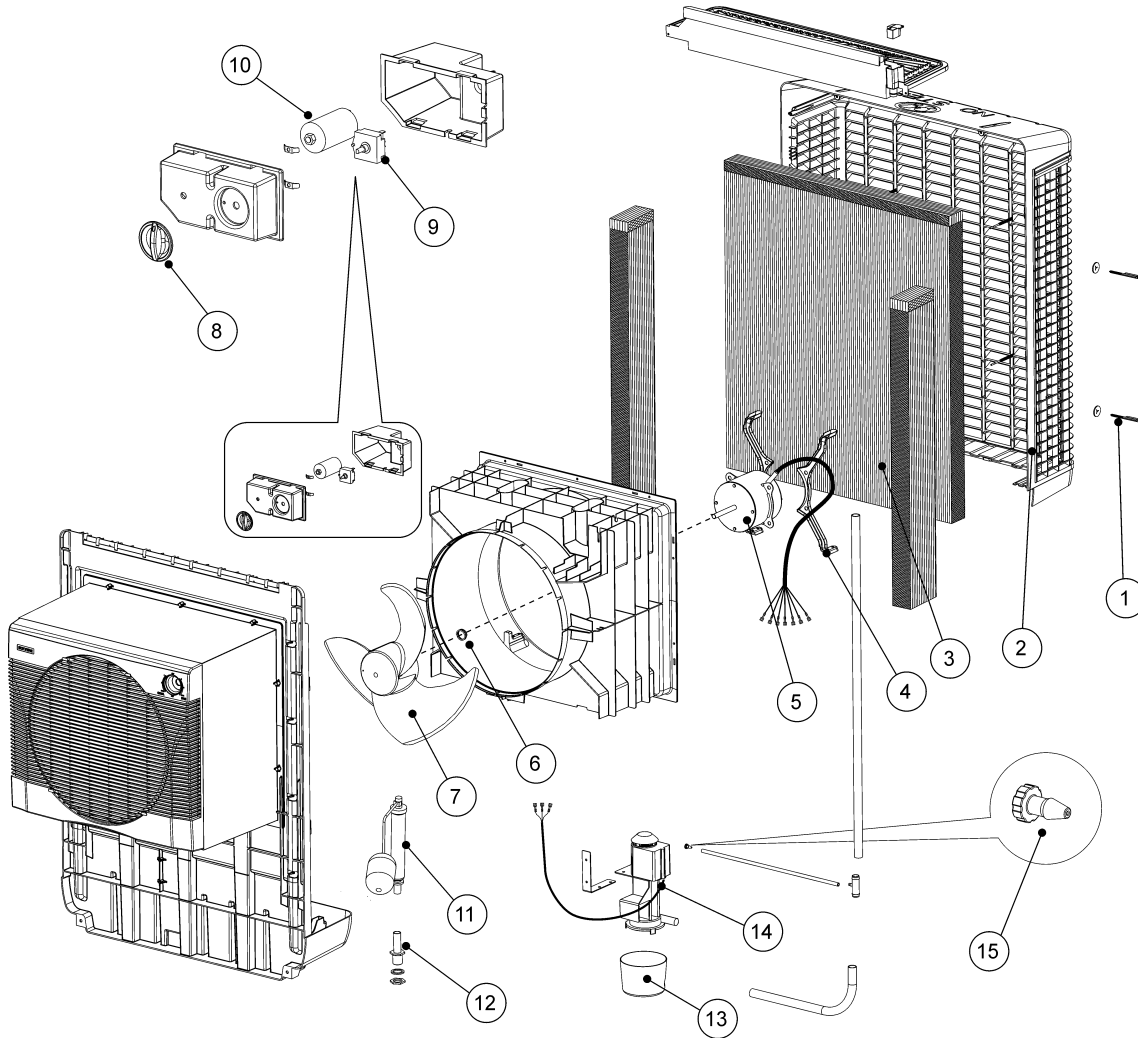
ELECTRICAL

No general maintenance is required to the electrical system.

Electrical Connections and Maintenance Should Only Be Carried Out By A Qualified Electrician.



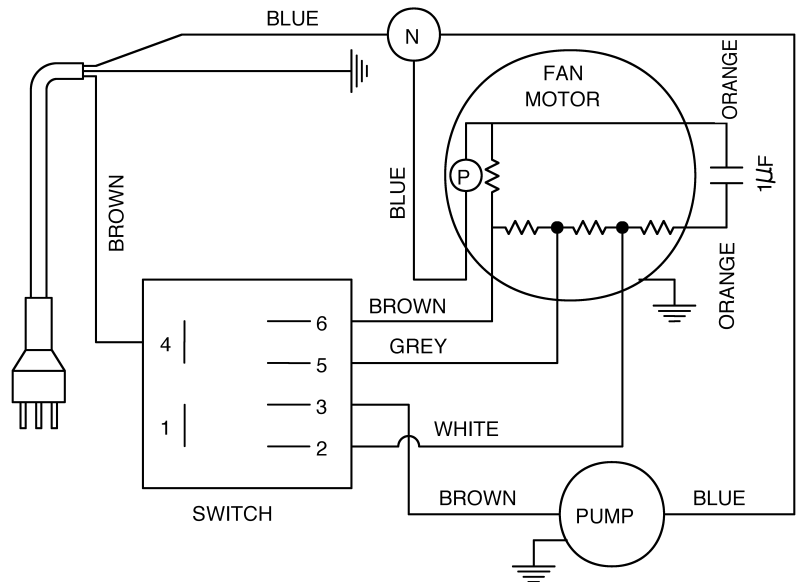
Spare Parts



No	Description	Part Number
1	Filter Retainer Clips	6280134SP
2	Louvre Assembly	6280103SP
3	Filter Pad Set	6280116SP
4	Motor Mounting Brackets	6282006SP
5	Motor	6281610SP
6	Fan Retaining Clip	6280804SP
7	Fan	6280806SP
8	Control Knob	6201609SP
9	Switch	904322SP
10	Capacitor	6280133SP
11	Float Valve Assembly	6280920SP
12	Overflow Fitting	073016SP
13	Pump Filter Basket	6050811SP
14	Pump	6280807SP
15	Bleed Nipple	6280803SP



Wiring Diagram



Accessories

Optional Winter Cover Instructions

The Durango optional winter cover has been designed to provide you with a simple method to seal the unit from winter draughts.

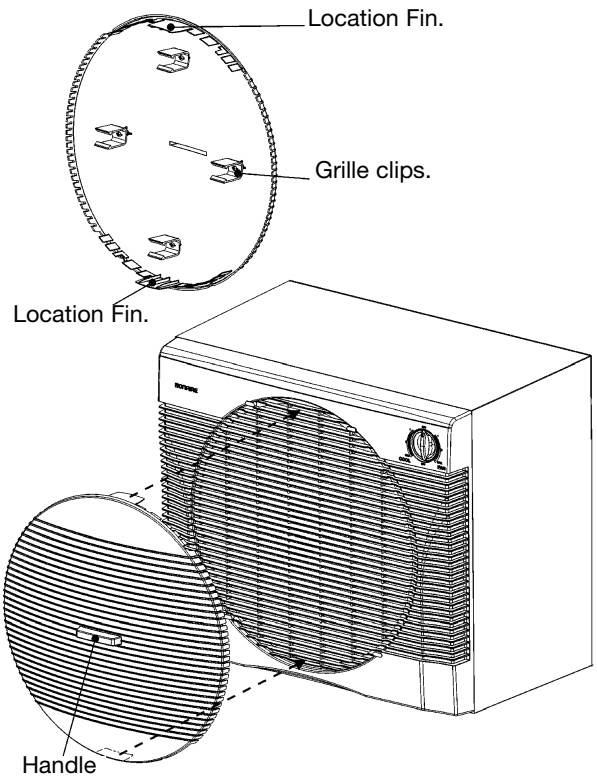
To INSTALL the optional winter cover:

1. Check the lines on the winter cover match the front grille for correct application.
2. Place the lower fin of the winter cover into the gap between the first and second grilles at the bottom of the fan grille.
3. Ensure the grille clips line up with the appropriate grille and push on.

To REMOVE the optional winter cover:

Simple pull the cover off using the winter cover handle.

Winter Cover Inside View.



Fitting the Winter Cover.



Installation and Operation Manual

Trouble Shooting

	PROBABLE CAUSE	REMEDY
Unit fails to start	a Power failure	a Wait for power to be turned on
	b Tripped Circuit Breaker	b Reset circuit breaker
	c Blown Fuse	c Replace
	d Electrical Fault	d Call Climate Technologies Service
Pump fails to start	a Pump Seized	a Isolate power and then take off top of pump and try to free it. Some lubricant may help
	b Electrical fault with pump	b Call Climate Technologies Service
Water leaking from overflow	a Float Valve Leaking	a Check adjustment or replace float valve if necessary
	b Drain from Celdek Pads	b Normal Operation – adjust float level
Water Droplets in air stream	a Loose Delivery Tube	a Check and tighten
	b Break in tubing	b Replace as necessary
	c Pump appears to deliver excessive water to pads	c Check the condition of the Celdek pad. Wash if pad shows heavy build up of minerals.
	d Bleed nozzle is blocked	d Clean bleed nozzle.
Excessive humidity	a Inadequate Exhaust	a Provide more open area to exhaust stale air by opening windows and doors in adjacent rooms.
Inadequate Cooling	a Dirty Filters	a Clean
	b Dry Filters	b Check control set on “cool” mode. Check water delivery system. Adjust if necessary.
Unpleasant Odour	a Unit located near odour source	a Remove source
	b Algae in Water Tank	b Clean tank and refill with fresh water
Rapid formation of white deposits on pads	a High Mineral Content	a Bleed off should be checked to see if bleed nozzle is blocked, clear if necessary and clean Celdak pad. More regular maintenance may be required.



Installation and Operation Manual

5 YEAR MAINTENANCE PLANNER

		1 st Year	2 nd Year	3 rd Year	4 th Year	5 th Year
PRESEASON CHECK	1.1	Check quality of filters				
	1.2	Check fan and pump				
	1.3	Fill unit with water				
	1.4	Start unit				
	1.5	Check bleed-off system				
FIRST MIDSEASON SERVICE	2.1	Check and clean filters				
	2.2	Drain, clean and refill water tray				
	2.3	Check bleed-off system				
	2.4	Check strainers and filters				
	2.5	Check unit operates correctly				
SECOND MIDSEASON SERVICE	3.1	Check and clean filters				
	3.2	Drain, clean and refill water tray				
	3.3	Check bleed-off system				
	3.4	Check strainers and filters				
	3.5	Check unit operates correctly				
END OF SEASON SERVICE AND SHUT DOWN	4.1	Turn off water supply				
	4.2	Drain and clean unit				
	4.3	Leave overflow fitting removed				
	4.4	Check motor and pump and spray with anti-corrosive agent				

Warranty (Australia Only)

SERVICE CENTRES

A qualified service technician should conduct any service work carried out on your window cooling product. It is important that periodical service is carried out on your product to ensure you will receive the efficiency benefits the product provides.

An authorised Climate Technologies service provider must carry out warranty service.

For Metro Service only ring the numbers below.

- South Australia/
Northern Territory** (08) 8307 5230
- New South Wales /
Australian Capital Territory** (03) 8795 2457
- Western Australia** (08) 9454 1000
- Victoria/Tasmania** (03) 8795 2456
- Queensland** (07) 4634 1803

Outside Metro areas please contact your nearest Climate Technologies Service Provider.



Warranty (Australia Only)

APPLIANCE WARRANTY STATEMENT.

Subject to the following conditions Climate Technologies provide, from the dated proof of purchase, the following warranty

- Functional components found within the unit to be defective in workmanship or material will be replaced free of charge subject to the periods of warranty specified.
- Structural components within the product that fail to perform the intended function due to faulty manufacture or deterioration will be replaced free of charge subject to the periods of warranty specified.

This warranty only covers your window cooler manufactured and supplied by Climate Technologies.

CONDITIONS AND EXCLUSIONS

- Appliance warranty does not cover installation components that may be attached to the product manufactured by Climate Technologies. These may include and is not limited to items such as ducting, flues, grills, piping etc. These items remain solely the responsibility of the dealer / installer.
- Product fitness for purpose and overall system design / sizing requirements are solely the responsibility of the dealer / installer. This includes but is not limited to heat load, air flow, humidity, water quality etc.
- Traveling time and mileage are included within 30km of either your authorised Climate Technologies dealer or service provider's premises. Customers in areas other than the above are responsible for any traveling time and mileage required to carry out warranty repairs.
- The product must be installed by a qualified person in the manner prescribed by local & statutory regulations and to the manufacturer's specifications.
- Service within the terms of this warranty will be recognised where we are satisfied that the appliance or part was supplied within the relevant time limits. Documents of purchase and Dealer/Installer information will assist in this process.
- A charge will be made for work done or a service call where:
 - There is nothing wrong with the appliance.
 - The defective operation of the appliance is due to failure of electricity or water supply.
 - Defects are caused by neglect, incorrect application, abuse or by accidental damage of the appliance.
 - An unauthorised person has attempting to repair the appliance.
 - A situation arises referenced in the trouble-shooting guide.
- Damage caused by elements such as wind, rain, lightning, floods etc along with power spiking and brownouts are not considered defective material or workmanship and as such are not considered warranty.
- If there is no certificate of compliance for plumbing or electrical, Climate Technologies reserves the right to refuse service on non-compliant installations.
- No responsibility will be accepted for outside elements such as pests, animals, pets and vermin that may cause damage to the unit.
- Harsh environmental situations such as salt air that may cause cabinet or electronic damage can not be considered warranty.
- Claims for damage to contents, carpet, walls, ceilings, foundations or any other consequential loss either direct or indirect resulting from, power spikes, incorrect operation, incorrect installation or faulty product are excluded.
- All warranties are NOT transferable.

NOTE: In addition to this warranty, the Trade Practices Act and similar laws in each state provide the owner, under certain circumstances, with minimum statutory rights in relation to the product.

This warranty must be read subject to that legislation and nothing in this warranty has the effect of excluding, restricting or modifying those rights.

WARRANTY ON REPLACEMENTS PARTS.

Parts replace under warranty are warranted for the balance of the original warranty period.



Warranty (Australia Only)

PERIODS OF WARRANTY – YEARS

EVAPORATIVE AIR CONDITIONING

RESIDENTIAL		COMMERCIAL	
Parts	Labour	Parts	Labour
3	3	1	1

** Filter pads are a consumable item and therefore are not covered by the above warranty periods.

PROOF OF PURCHASE

It is important that the name of the Dealer or Retailer from whom you purchased your product and the name of the installer is recorded on this page. The installer is responsible for the correct installation, start up and demonstrating the operation of this product. He is also responsible for issuing the relevant certificates of compliance for the electrical and water connections. (These may differ from state to state)

Please attach your proof of purchase here. Your receipt is your warranty and will be required to validate any warranty.

DEALER / PRODUCT INFORMATION

Dealer/Retailer:	
Dealer Address:	
Dealer Phone Number:	
Unit Model Number:	
Serial No:	
Date Installed:	
Installed by:	



“Excelling today for a better tomorrow”

Manufactured by
Climate Technologies
ABN 13 001 418 042

26 Nylex Avenue
Salisbury, SA 5108
Australia

www.climatetechnologies.com.au

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In the interest of continued product improvement Climate Technologies reserves the right to alter specifications without notice. E.&O.E.

Part No 6282208/A