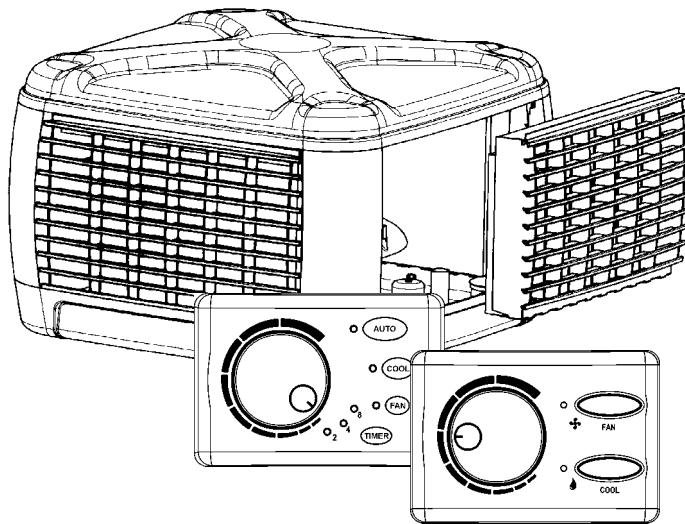

Owner's Manual

Using the
Ducted Evaporative Air Conditioning
with Your
Manual or Thermostat Control



Operating, Installation & Maintenance

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 Evaporative Air Conditioner. Failure to do so will void all guarantees beyond statutory and legal requirements.

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Introduction

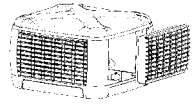
CONGRATULATIONS ON YOUR CHOICE

We are delighted you have chosen an air conditioning product from Climate Technologies to cool your home. It's an air conditioner we're very proud of. Designed and made in Australia by Climate Technologies, a 100% Australian owned company, it contains the latest advances in Fresh Air Conditioning technology in a stylish, attractive cabinet.

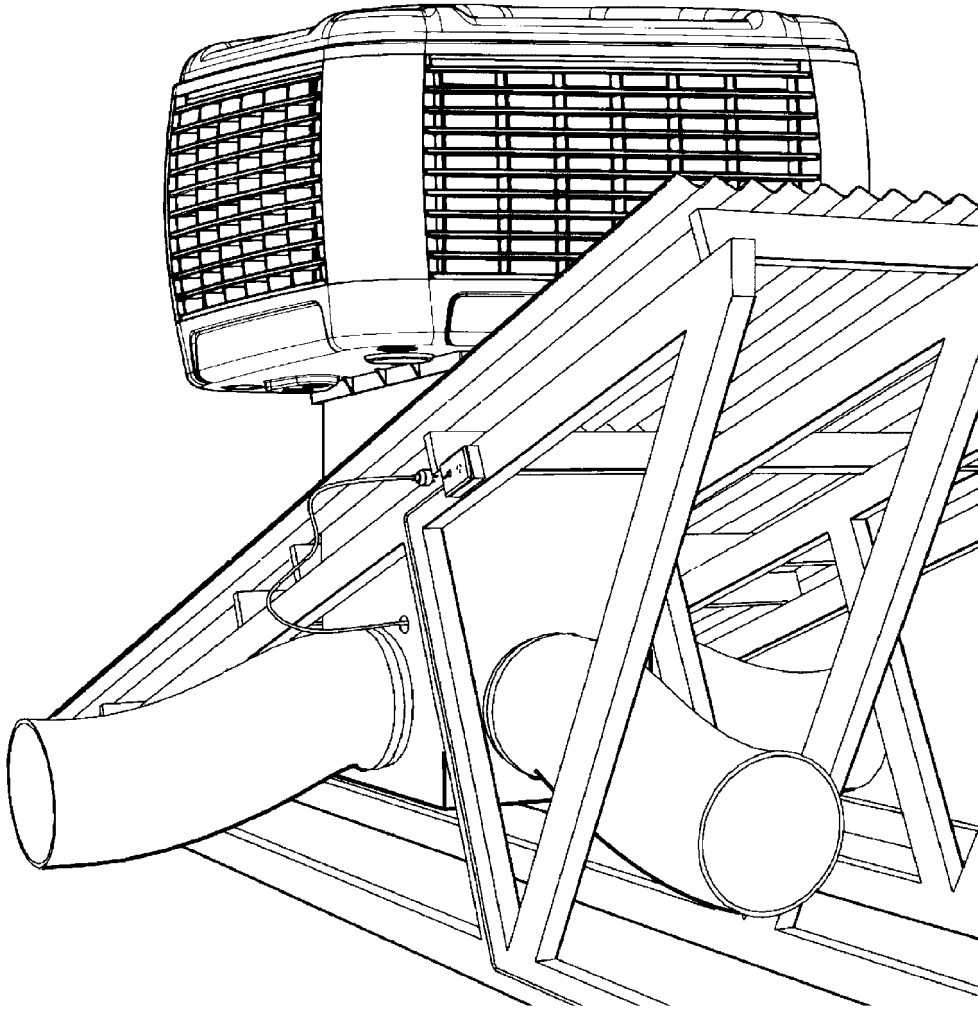
Climate Technologies is constantly researching and developing improved product features and therefore reserves the right to change specifications without notice.
E.&O.E.

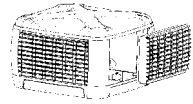
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Ducted Evaporative Air Conditioner

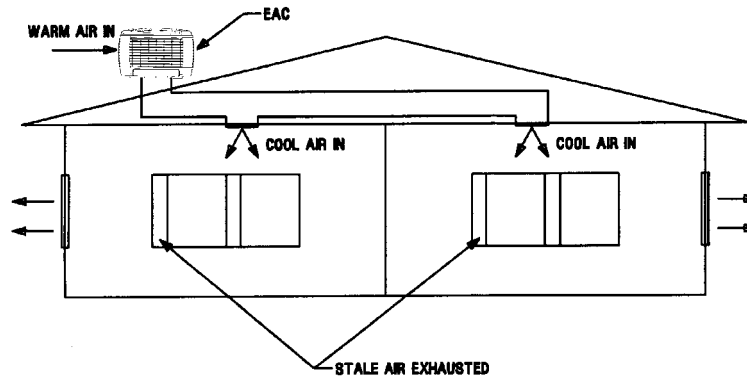




Ducted Evaporative Air Conditioner

INTRODUCTION

The Ducted Evaporative Air Conditioner is engineered to meet the rigors of our harsh Australian environment. Operated and maintained in accordance with this manual, it will provide you with years of quiet, cool and environmentally friendly operation. Please take the time to read this manual.

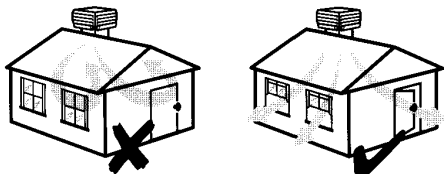


The principal of your unit is to introduce fresh air, which is washed through the filter pads to provided cool fresh air. The air is exhausted taking with it any heat loadings on the home.

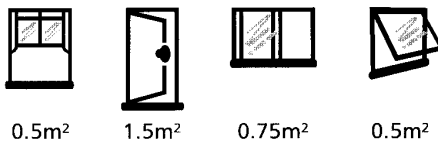
Exhaust

It is essential for successful operation of evaporative air-conditioning that there be sufficient exhaust openings in the area to be ventilated. Open doors and windows will usually provide this.

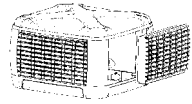
The minimum exhaust opening should be as per the table guide set out below. It is recommended that ceiling vents or exhaust fans be used where there is any doubt about there being sufficient exhaust area available. Ceiling exhaust fans or ceiling vents should have a capacity equivalent to that of the air conditioner.



Vent Area for Doors and Windows



MODEL	MINIMUM EXHAUST AREA
Small Cabinet	0.80 m ²
Medium Cabinet	1.43 m ²
Large Cabinet	1.75 m ²



Ducted Evaporative Air Conditioner

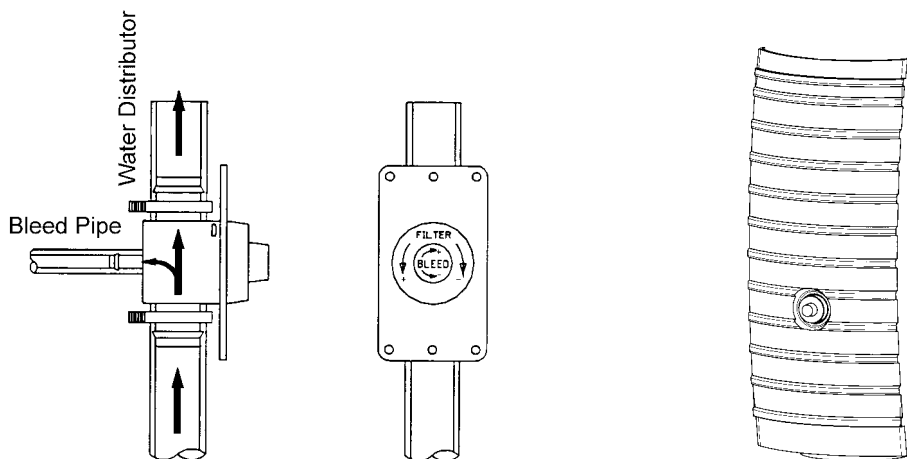
Bleed-off

All evaporative air conditioners need some water bleed-off to prevent build-up of mineral deposits in the system. The correct setting of the bleed rate will ultimately govern the life of the unit.

With normal town water supply, bleed rate should be adjusted so that the discharge is not less than approximately 10 litres per hour. Increased water hardness may require a higher bleed rate and increased maintenance.

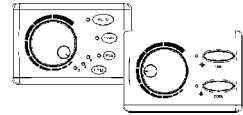
The method for setting the bleed rate is to adjust the patented DIALFLO unit located externally on the unit.

It is recommended to plumb the bleed-off away from the unit to a down-pipe in situations where the discharge may cause unsightly stains, e.g. Colorbond Roofs.



Note: To control water volume to filter pad rotate the filter dial anti-clockwise for more water and clockwise for less water. To control bleed-off rate rotate bleed dial clockwise for more water and anti-clockwise for less water.

Note: Always set the water volume to the filter first before setting the bleed off rate.



Controls Operation


Your ducted evaporative air conditioner has been supplied with either the 4-button Programmable Thermostat control, or the 2 button manual control

PROGRAMMABLE THERMOSTAT CONTROL


The Programmable Thermostat controller has two modes, MANUAL or AUTOMATIC. In addition it has a TIMER, which will operate in either mode.

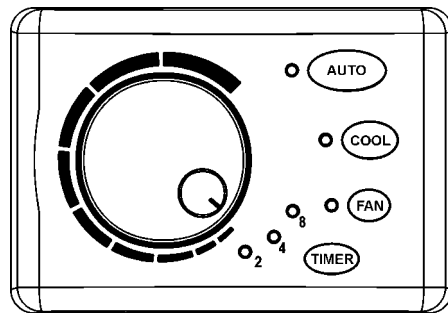
Manual Operation

Fan Only

Pressing the FAN button once will turn on the green fanlight and will start the fan only. The variable speed dial will vary the speed of the fan. 

Fan & Pump

Pressing the COOL button once will turn on the green cool light and will start the fan and pump. The variable speed dial will vary the speed of the fan. 



*NOTE: When the COOL button is pressed there may be a two or three minute delay in start up if PRE-FILL, or PRE-COOL has been selected in the set up of the controller. This is indicated by a flashing green light next to the COOL button or AUTO button. For more information on these features contact your nearest Climate Technologies dealer or from place of purchase.

Turning off Unit

To switch the unit off, press the button that has the green light. This light will then go out to indicate the unit is off.


Ventilation

On days of high humidity, your unit may operate more efficiently in ventilation mode.

To start the FAN ONLY press the fan button.

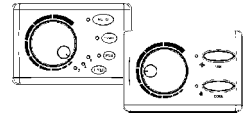
Use the dial  to control the comfort level required (speed of the fan).

Automatic Operation

- To select AUTOMATIC mode press the AUTO button. The green light will be on to indicate that the unit is in the auto mode.
- To select the desired comfort level use the dial . The dial does not control the speed of the fan this is done automatically by the controller.

Note: The comfort level is individual to each situation and location. Some trial and error may be required to set the dial to your desired comfort level; a good starting point is to have the dial set at the Nine o'clock position. Once the unit has been set, the fan speed and pump are controlled automatically. The unit can be left and will cycle on and off to keep the area being cooled to the set comfort level.

- Around the edge of the dial there is a marking, for more cooling turn the dial clockwise to where the marking increases in size. If the room temperature is too cold turn the dial anti-clockwise for less cooling (a warmer comfort setting).




Controls Operation

The Timer

The timer function operates either in Automatic or Manual modes and is designed to switch the unit ON or OFF in a pre-set period (two, four or eight hours).

Note: Once the time function has activated or deactivated the unit, it will remain in this mode until another selection has been made at the wall control.

Timer ON

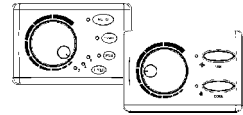
- To switch the unit ON in a pre-set time, firstly select FAN, COOL, or AUTO. Adjust the dial  to your selected position. Press the same button again to turn the unit back to the off mode.
- Select the desired time to switch the unit back on in two, four, or eight hours by pressing the TIMER button until your selected time appears which is indicated by the green light.
- The option that has been selected will begin to flash rapidly. This is indicating to the user that the mode selected will start in the selected time.
- If the owner wants to start the unit instead of waiting for the timer, press the button that the green light is flashing once then press the same button once more to start the unit. This can be indicated by the green light coming on near the button selected.

*NOTE: Repeated TIMER button presses selects the desired time and also disables the timer. The green lights near the two, four, or eight-hour time selections must be illuminated else the timer is in the disabled mode.

Timer OFF

- The timer off mode will switch off the unit in the selected two, four, or eight hours.
- While the unit is running press the TIMER button to select the two, four, or eight-hour time option.
- Once the time mode has been selected the unit will turn off in the selected time period and remain in the off mode until pressing one of the function buttons (FAN, COOL, OR AUTO) to restart it.

*NOTE: Repeated TIMER button presses selects the desired time and also disables the timer. The green lights near the two, four, or eight-hour time selections must be illuminated else the timer is in the disabled mode.




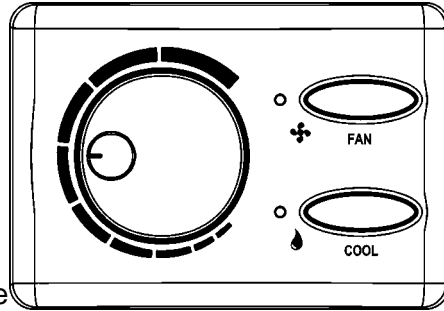
Controls Operation

Manual Control


MANUAL OPERATION

This controller is a manually operated wall switch.

- Pressing the FAN button once will turn on the green fanlight and start the fan. Use the variable speed dial  to adjust the speed of the fan.
- To turn the fan mode off press the FAN button once, the green fan light will turn off indicating that the fan has been turned off.
- Pressing the COOL button once will turn on the green cool light and start the pump.
- To turn the cool mode off press the COOL button once, the green cool light will turn off indicating that the pump has been turned off.




Operating the unit with the manual controller.

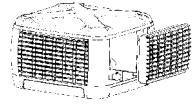
- When operating the unit, press the COOL button once to start the pump, which will wet the filter pads ready for cooling the home. After two minutes press the FAN button once to start the fan, and use the variable speed dial  to adjust the speed of the fan.

Ventilation.

On days of high humidity, your unit may operate more efficiently in ventilation mode.

To start the FAN ONLY, press the fan button .

Use the dial  to control the comfort you level required (speed of the fan).



Unit Maintenance

Warning: Before commencing any maintenance work on your unit, isolate the power at the supply (Fuse Box).

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

FILTER PADS

Visually check CELDEK pads for damage or blockage. 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. Do not hose Celdek with high pressure.

UNIT WATER RESERVOIR

It is important to keep the water tank clean and free from sediment and algae growth. To clean the tank, use a soft brush or similar. Wipe 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). Drain the tank by removing the 40mm standpipe. It may be necessary to repeat this procedure if the tank is very dirty.

SAFETY: Wet roofs are dangerous – Take Care When Draining unit reservoir.

WATER LEVEL / FLOAT VALVE

The water level should be set at nominal 30-35mm from the top of the overflow. The float valve is a mechanical type and is factory set. If it requires adjustment keep bends tight. If the valve is leaking the seal may require cleaning or replacing. Turn the water off. Remove the split pin and then float arm. Remove piston and clean or turn seal. Flush system and replace piston, float arm and split pin.

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. Adjust float valve.

MOTOR AND FAN

Check that the fan spins freely and that there is no build up on the blades.

ELECTRICAL

No general maintenance is required to the electrical system.

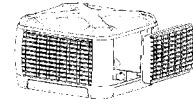
A Qualified Electrician should only carry out electrical connections and maintenance.

BLEED OFF

The bleed rate should be checked to ensure it is adequate 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 Rate should be increased. If it is at maximum and the deposits are still forming, then more regular maintenance is required.

PUMP

Check the pump spins freely and that the strainer is clean.



Unit Maintenance

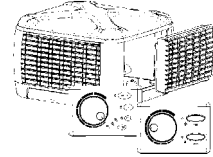
WATER DISTRIBUTION

Check the water distribution system for blockage. Check the delivery tube for kinks or holes. Check that the clamps are secure and in place.

PROBLEM SOLVING

PROBLEM	PROBABLE CAUSE	REMEDY
Unit fails to start	<ul style="list-style-type: none"> a Black - out b Tripped Circuit Breaker c Blown Fuse d Electrical Fault 	<ul style="list-style-type: none"> a Wait b Reset c Replace d Call Climate Technologies Service Provider
Pump fails to start	<ul style="list-style-type: none"> a Pump Seized b Pump Burnt Out 	<ul style="list-style-type: none"> a Call Climate Technologies Service Provider b Call Climate Technologies Service Provider
Water leaking from overflow	<ul style="list-style-type: none"> a Float Valve Leaking b Drain from Celdek Pads 	<ul style="list-style-type: none"> a Check adjustment or replace seal b Adjust Ball Valve level
Water Droplets in air stream	<ul style="list-style-type: none"> a Loose Delivery Tube b Break in tubing c Pump Delivers Excessive Water to Pads 	<ul style="list-style-type: none"> a Check and tighten b Replace as necessary c Adjust the Dialflo to reduce the flow
Excessive humidity	<ul style="list-style-type: none"> a Inadequate Exhaust b Outside humidity high 	<ul style="list-style-type: none"> a Provide more open area to exhaust stale air b Turn pump off may assist.
Inadequate Cooling	<ul style="list-style-type: none"> a Dirty Filters b Dry Filters c Dialflo not set correctly 	<ul style="list-style-type: none"> a Clean b Check water delivery system. Adjust dialflo if necessary. c Adjust dialflo so that the pads have even saturation.
Unpleasant Odour	<ul style="list-style-type: none"> a Unit located near odour source 	<ul style="list-style-type: none"> a Remove source
Rapid formation of white deposits on pads	<ul style="list-style-type: none"> High Mineral Content 	<ul style="list-style-type: none"> Bleed off should be set at maximum. More regular maintenance may be required. Dump valve may be required for cyclic dumping

THIS TROUBLE SHOOTING GUIDE IS A REFERENCE ONLY.
 FOR SERVICE OR WARRANTY REQUIREMENTS PLEASE RING
 YOUR NEAREST CLIMATE TECHNOLOGIES SERVICE PROVIDER



Controls Setup & Commissioning

Your evaporative air conditioner can be supplied with one of 2 control systems.

They are:

Manual	Low voltage control featuring basic control options.
Programmable Thermostat	Low voltage control featuring basic control options and thermostat, timed delayed starting and stopping, and dump valve features.
Connection Cables	Low voltage controls are connected to the air conditioner control box via a 20-metre low voltage loom.

NOTE:

- Do not run the low voltage loom in long parallel runs with 240V mains cables.**
- Keep the low voltage loom 200mm away from any long runs of mains wiring.**
- Cross over mains wiring at right angles.**
- Do not use existing access holes in wall cavities where 240V mains wiring exists. Drill a new access hole 200mm from the existing hole.**

SAFETY

- Switch OFF the power and unplug the unit before touching any wiring or performing any work.
- A QUALIFIED ELECTRICIAN must carry out all 240-volt electrical work.

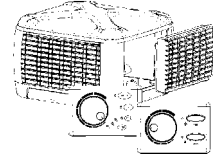
BEFORE COMMENCING

Packaging

Upon delivery, check that there is no damage to the unit. Any damage should be reported to your nearest Climate Technologies sales outlet.

Is the control system correct?

Check the customer order to ensure that you have all the correct equipment for installation.



Controls Setup & Commissioning

CONTROL LOCATION

Manual Control

There is no thermostat in the manual wall control so it can be located anywhere that is suitable to the customer. The control is supplied with a 20-metre connection loom to the air conditioner.

Programmable Thermostat wall control:

- Locate the wall switch on an internal wall of a conditioned room of the home, approximately 1.5M above the floor level, in an easily accessible location as agreed with the customer.
- The controller must not be installed into areas where a ceiling register may blow cold air over the control, or installed near appliances that may generate heat. This will cause erratic thermostat operation.
- The control is supplied with a 20-metre connection loom to the air conditioner.



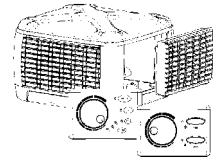
The thermostatic wall-mounted controllers should be in a conditioned room in a location that enables correct thermostat operation. Ensure that the location is suitable for the customer.

INSTALLING THE CONTROL

The wall controller is provided with a 20-metre loom to connect the wall control to the control box in the unit.

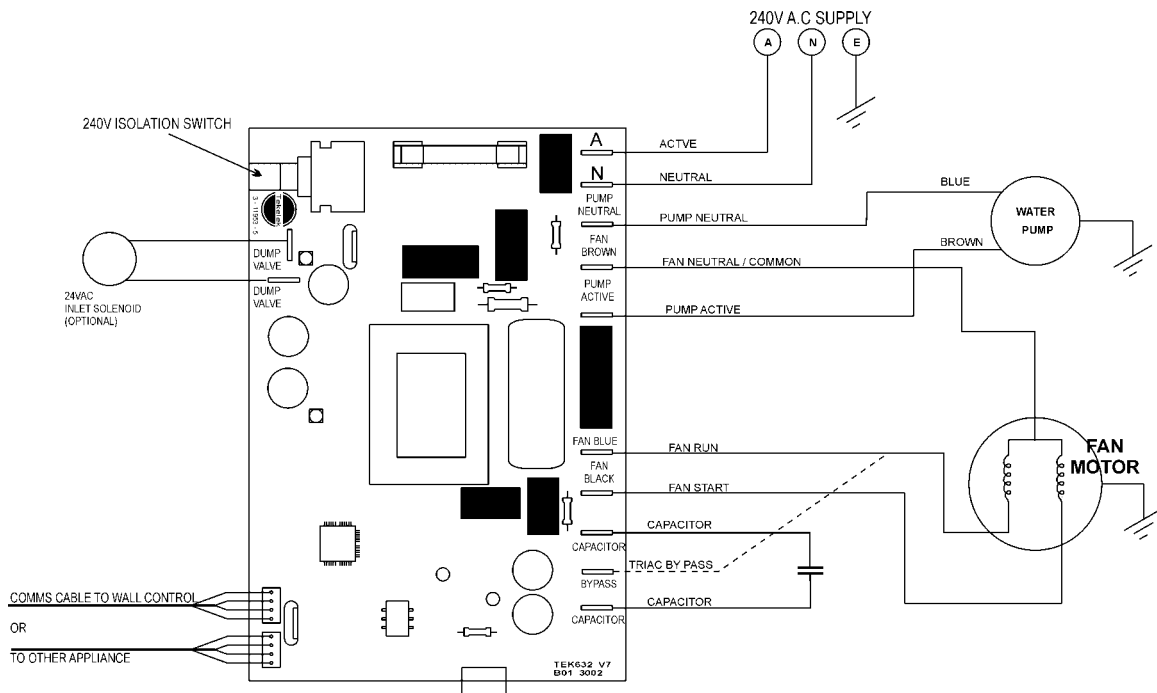
Follow these instructions for best installation:

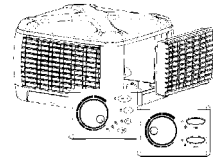
1. Connect the low voltage loom to one of the communication points in the unit control box. Refer to wiring diagram
2. Pull the cable through to the designated point for the permanent application of the wall control.
3. Mount the control base plate to the wall.
4. Connect the loom to the wall control and fit the control panel to the base plate.



Controls Setup & Commissioning

TEK 600 WIRING DIAGRAM





Controls Setup & Commissioning

MANUAL WALL CONTROL – SETUP OPTIONS

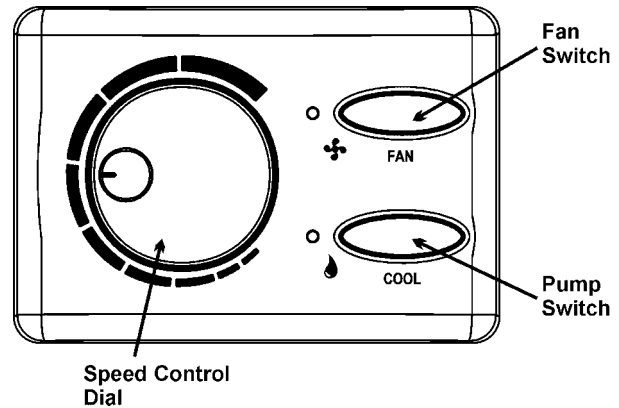
Dump Valve

A dump valve can be fitted when using a manual control with limited function.

- There is no dumping cycle or delay time function available.
- The water will dump each time the COOL switch is turned OFF.
- Water bleed off will be required

Multiple Unit Connection.

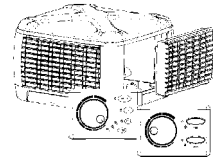
The manual control can only control ONE air conditioning unit.



Minimum / Maximum Speed Adjustment.

TIPS: Read the below instructions 1 to 5 before entering the minimum speed control mode. If the user takes too long to enter information into the wall switch the control will time out and the user will have to start back at instruction number 1.

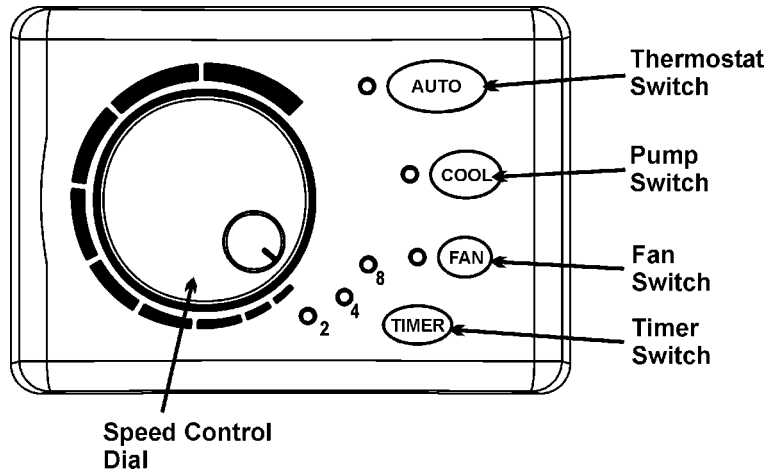
1. Ensure the fan and cool buttons are in the off mode and the speed control dial is set to the maximum position (fully clockwise).
2. Rotate the speed control dial to the minimum position (fully anti clockwise), wait three seconds then press the cool button once.
3. Rotate the speed control dial back to the maximum position (fully clockwise), wait three seconds and press the cool button once.
4. Rotate the speed control dial back to the minimum position (fully anti clockwise) and press the fan button once.
5. The fanlight will flash in a dull and bright sequence to indicate that the minimum speed selection has been made and the fan motor will start in the low speed mode.
6. By adjusting the dial, the minimum speed can be selected. Rotate the dial to the desired minimum speed, then press the cool button to set the maximum speed (go to step 7) or press the fan button to complete minimum speed adjustment.
*NOTE: Do not set the minimum speed to low, as this will cause the motor to burn out. Optimum minimum speed RPM should be between 500 and 650 RPM.
7. After the cool button has been pressed the fan light and cool light will both be flashing a dull and bright sequence to indicate maximum speed adjustment has been made and the fan motor will increase in speed. By adjusting the speed control dial a maximum speed selection can be made.
Once the maximum speed has been selected press the fan button once then press the cool button once.
TIPS: once the minimum and maximum speeds have been selected always press the fan button first then the cool button. If the cool button is pressed first then the fan button, the control will enter a new minimum speed setting that may be incorrect for the units operation.
8. The wall switch at this point should be in the off mode, press the fan button once to start the fan and confirm minimum and maximum speed settings.



Controls Setup & Commissioning

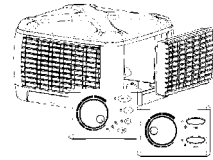
PROGRAMMABLE THERMOSTAT CONTROL – SETUP OPTIONS

This controller has a number of options for the installer to set before commissioning the unit.

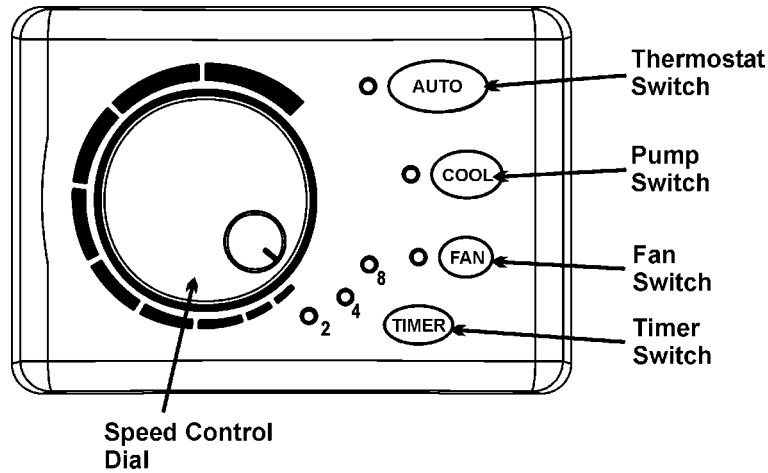


Options

OPERATION	FUNCTION
DUMP DELAY	This mode controls the dump valve. (If fitted). The dump delay is used to set the dump valve to dump 40 seconds after the pump is turned off or can be set to dump one hour after the pump has turned off. After 40 seconds or 1 hour the base is drained and left dry until the next cycle.
PRE-COOL	The pre-cool feature is used to let the pump wet the pads for 2 minutes before the controller turns the fan on. This feature applies to the COOL and AUTO modes. The pre-cool can be selected to be either on or off.
DUMP INTERVAL	The dump interval is used to cycle the dump valve (if fitted) in 1, 2, 4, 8, 12, and 24 hour cycles. If the unit is on for long periods of time or the water has a high mineral content a dumping interval can be set to help maintain the unit. When the dumping time interval has timed out, (e.g.: after 4 hours of pump operation) the unit will shut down for 2 minutes while the dump valve drains the water from the base. After 2 minutes the dump valve is closed, the base fills with water and the unit starts in the same mode that it was in before the dumping cycle commenced.
PRE-FILL	The pre-fill mode allows the base to be filled with water (if a dump valve has been fitted) for 1 minute before starting the pump and can be set to the on or off mode.



Controls Setup & Commissioning

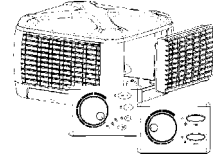


Parameter Settings Table

The below table is a parameter chart for setting the unit. This chart is also printed on the back of the wall switch.

Setting Installer Parameters.					
Press and hold the FAN+TIMER buttons for 10 seconds, release, and press the TIMER button once					
Parameters		Dump delay	Pre-cool	Dump interval	Pre-fill
Parameter indicator		2hr light	4hr light	8hr light	2+4hr light
Parameter setting (Number of AUTO light flashes)	OFF	•	•		•
	ON	•• (default)*	•• (default)*		•• (default)*
	0HR			• (default)*	
	1HR			••	
	2HR			•••	
	4HR			••••	
	8HR			•••••	
	12HR			••••••	
	24HR			•••••••	

* Note: the default settings in the above table are factory set.



Controls Setup & Commissioning

Entering the Parameter Setting Mode

To enter and adjust the parameter setting mode follow the instructions below:

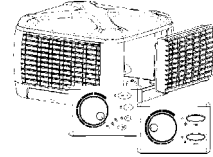
1. Start with the wall switch in the off mode.
2. Press and hold the both the FAN and TIMER buttons together for 10 seconds.
3. Release both buttons and press the TIMER button once.
4. The 2hr light will turn on and the AUTO light will flash. At this point the control is ready for any settings to be entered into the wall control.

Setting the dump delay (2 hour light on and Auto light flashing)

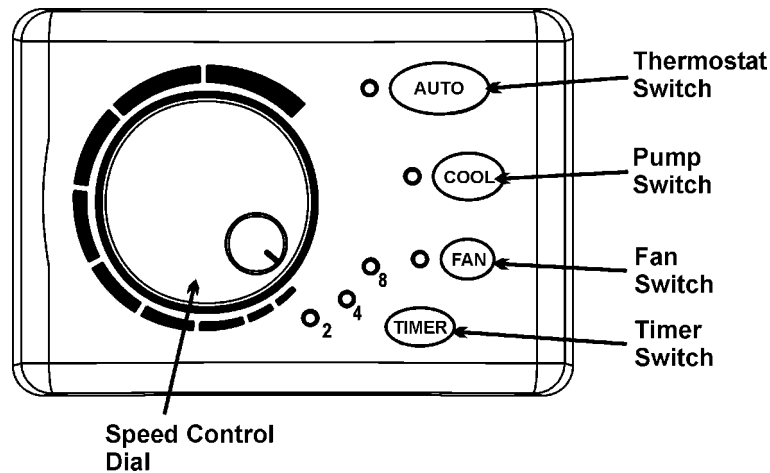
1. To set the dump delay to dump **40 seconds** after the pump turns off, rotate the dial fully to the **minimum position** and the auto light will flash once every two seconds.
2. To set the dump delay to dump **1 hour** after the pump has switched off, rotate the dial fully to the **maximum position** and the auto light will flash **twice** every two seconds.
3. Press the **FAN** button once to select the desired mode. (The fanlight will flash three times to confirm the setting).
4. Press the **AUTO** button to go to the next setting (go to step 6) or press the **TIMER** button to cancel.

Setting the Pre-cool. (4 hour light on and Auto light flashing).

1. To disable the Pre-cool feature rotate the dial fully to the minimum position and the auto light will flash once every two seconds.
2. To activate the Pre-cool feature rotate the dial fully to the maximum position and the auto light will flash twice every two seconds.
3. Press the FAN button once to select the desired mode. (The fanlight will flash three times to confirm the setting).
4. Press the AUTO button to go to the next setting or press the timer button to cancel.



Controls Setup & Commissioning

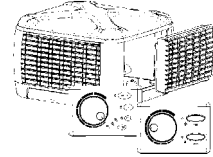


Setting the Dump Interval Cycles (8 hour light on and the Auto light flashing).

1. To disable the dumping cycle feature rotate the dial fully to the minimum speed position and the auto light will flash once every two seconds.
2. To activate a one hourly dumping cycle, rotate the dial anti-clockwise until the auto light flashes twice every two seconds.
3. To activate a two hourly dumping cycle, rotate the dial anti-clockwise until the auto light flashes three times every two seconds.
4. To activate a four hourly dumping cycle, rotate the dial anti-clockwise until the auto light flashes four times every two seconds.
5. To activate a eight hourly dumping cycle, rotate the dial anti-clockwise until the auto light flashes five times every two seconds.
6. To activate a twelve hourly dumping cycle, rotate the dial anti-clockwise until the auto light flashes six times every two seconds.
7. To activate a twenty four hourly dumping cycle, rotate the dial anti-clockwise until the auto light flashes seven times every two seconds.
8. Press the FAN button once to select the desired mode. (The fanlight will flash three times to confirm the setting).
9. Press the AUTO button to go to the next setting or press the TIMER button to cancel.

Setting the Pre-fill (2 + 4 hour light on and the Auto light flashing).

1. To disable the pre-fill feature rotate the dial fully to the minimum speed position and the auto light will flash once every two seconds.
2. To activate the Pre-fill feature, rotate the dial fully to the maximum position and the auto light will flash twice every two seconds.
3. Press the FAN button once to select the desired mode. (The fanlight will flash three times to confirm the setting).
4. Press the TIMER button to complete the programming and to resume to normal operation



Controls Setup & Commissioning

Reviewing Programmed Settings.

To review the settings entered into the Programmable Thermostat, enter the parameter setting mode as explained from steps one to four on Page 19.

Once entering the parameter setting mode **DO NOT ROTATE THE ADJUSTABLE DIAL**. Read the number of flashes from the **AUTO** light in with the two-hour light on.

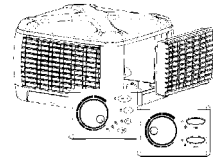
1. Press the **AUTO** button once and the four-hour light will turn on, read the number of flashes from the **AUTO** light.
2. Press the **AUTO** button once and the eight-hour light will turn on, read the number of flashes from the **AUTO** light.
3. Press the **AUTO** button once and the two and four-hour lights will turn on, read the number of flashes from the **AUTO** light.

If all settings are correct press the **TIMER** button to resume normal operation. If any further adjustments need to be made go back to step one of the parameter settings.

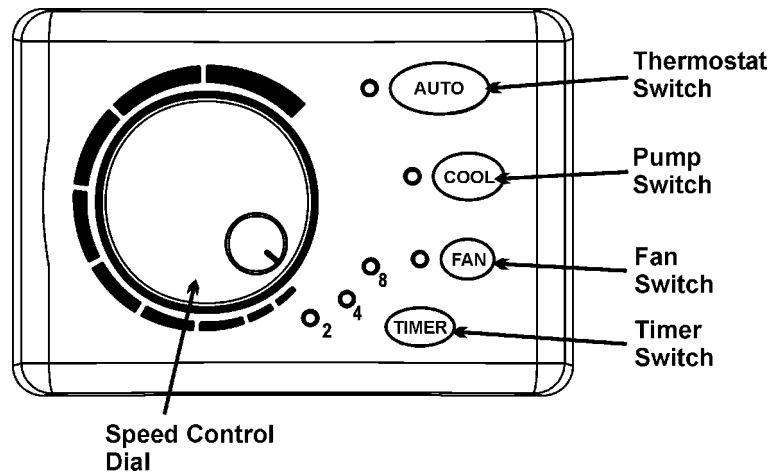
Energizing the Dump Valve Solenoid to check the water level.

When a dump valve is fitted, the wall control is able to operate the dump valve solenoid and pump independent of the fan operating so that the water level can be set, and Dialflo adjustments can be made to the filter pads and bleed off.

1. Start with the wall switch in the off mode.
2. Press and hold the both the **COOL** and **TIMER** buttons together for 10 seconds. Release both buttons and press the **TIMER** button once.
3. The four-hour light will flash once every two seconds to indicate that the dump valve solenoid has been energized and is filling the base with water. The dump valve solenoid will remain energized for ten minutes, after ten minutes the pump will start automatically which then the bleed off and filter pad dialflo adjustments can be made.
4. If the installer does not want to wait ten minutes before the pump starts press the **AUTO** button once to start the pump immediately.
5. The four-hour light will begin to flash twice every two seconds indicating that the pump has been started.
6. To cancel this mode and return too normal operation press the **TIMER** button once. If the timer button has not been pressed the pump will run for thirty minutes before tuning itself off.

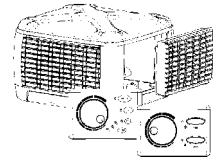


Controls Setup & Commissioning



Setting the Thermostat Control Minimum / Maximum speed settings.

1. Start with the wall switch in the off mode.
2. Press and hold the auto and timer buttons for ten seconds then release, after releasing these two buttons press and release the timer button once.
3. The auto light will flash continuously and the four-hour light will flash once every two seconds, this indicates that the unit is ready for low speed adjustment. If this does not occur repeat steps 1 and 2.
4. Rotate the adjustable dial fully anti-clockwise and press the fan button once, the fan light will flash three times to confirm the new setting has been entered.
5. To increase the minimum speed setting rotate the dial clockwise to a desired set point and press the fan button to enter the new setting. (NOTE: The fan speed will not change until the fan button has been pressed).
6. If the minimum speed needs to be increased further rotate the adjustable dial and press the fan button to enter the new setting.
Once the minimum speed has been set press the auto button to adjust the high speed setting (go to step 7) or press the timer button once to escape the minimum and maximum speed setting mode and return to normal wall switch operation.
7. Once the minimum speed has been set press the auto button once and the auto light will flash continuously and the four hour light will flash twice every two seconds, indicating that the unit is ready for maximum speed adjustment.
8. Rotate the adjustable dial fully clock-wise and press the fan button once to enter the new setting.
9. If the maximum speed needs to be decreased rotate the dial anti-clockwise then press the fan button to enter the new setting.
10. If the fan speed needs to be decreased further repeat step 9.
11. Once minimum and maximum speeds have been adjusted press the timer button once to escape the minimum and maximum speed setting mode and return to normal wall switch operation.

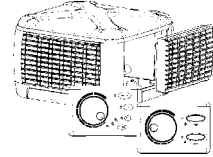


Controls Setup & Commissioning

HAND OVER

The evaporative air conditioning unit will now be ready for operation and hand over to the customer.

1. Setup up the control to the customer's requirements e.g. MANUAL or AUTO.
2. Explaining the key features of the control that they will use.
3. Explain the operation of an evaporative air conditioner and the key responsibilities of the customer e.g.:
 - Continuous Bleed requirement
 - Dumping cycles (If dump valve is fitted)
 - Venting the air via the side of the home the wind is not blowing from.
 - Maintenance requirements
4. Present the customer with their Owner's Manual for further explanation of the product's operation.



Controls Setup & Commissioning

COMMISSIONING CHECK LIST

General

- All equipment ordered by the customer is installed.
- The unit is level and secure.
- The mains and control wiring are complete and the circuit breaker and GPO are turned ON.
- All Controller functions for the appliance operate.
- All electrical or water connections are to manufacturers specifications and the relevant electrical or plumbing standards and codes.

Unit - Ducted Evaporative Air Conditioner

- The water supply line has been flushed to clear swarf and debris and is free of leaks.
- The tank is free of foreign matter and debris and the water isolating tap is turned ON.
- Water drainpipe work is completed and sealed.
- The water basin fills with water and the float valve closes correctly when the water level is 30-35mm below the overflow level.
- The water pump operates correctly when turned ON at the controller.
- The Dialflo water bleed rate is adjusted to suit local water conditions.
- The Dump Valve (option). The tank drains correctly when unit turns off.
- The fan deck is correctly located and the fan blade spins freely.
- The fan operates through the entire speed range.
- The minimum fan speed is correctly set.
- Water distribution is even with the filter pads fitted and the air conditioner operating pump and fan.
- Areas of high water pressure (Exceeding 500Kpa) a water pressure limiting valve must be fitted in accordance with AS3500. Consequential damage from high water pressure is not covered by warranty.

Ductwork

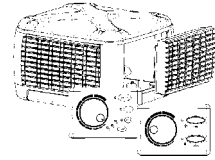
- All ductwork is completed to plan, correctly supported and airtight, with no bend less than 1.5 x the ductwork diameter.
- Air distribution checked, dampers are adjusted and all outlets correctly adjusted and wiped clean.
- All roof penetrations are fully sealed and watertight.
- Man hole cover replaced.

Site

- All rubbish has been removed from inside and on the roof.

Customer Hand Over

- The operation of the Controller.
- The need to open windows and doors for the correct operation of Fresh Air Conditioning
- The operation of the bleed or dumping system and it's importance to operate all the time in ducted fresh air conditioning
- Maintenance requirements



Warranty – AUSTRALIA ONLY

PRODUCT WARRANTY STATEMENT.

Subject to the following conditions we provide, from the dated proof of purchase, the following warranty:

Any parts found to be defective in workmanship or material within the period of warranty will be replaced free of charge.

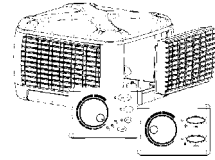
The structural warranty covers any structural components within the unit, which fail to perform their intended function due to faulty manufacture or deterioration within the warranty period.

Conditions and Exclusions

- Travelling time and mileage are included within 30km of either your authorized Climate Technologies dealer or service provider's premises. Customers in areas other than the above are responsible for any travelling time and mileage required to carry out warranty repairs.
- The product must have been installed in the manner prescribed by local statutory regulations and to the manufacturer's specifications by a qualified person.
- Service within the terms of this warranty will be recognized 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 or a service call where there is nothing wrong with the appliance or where the defective operation of the appliance is due to failure of electricity or water supply, or where defects are caused by neglect, incorrect application, abuse or by accidental damage of the appliance, or by an unauthorized person attempting to repair the appliance.
- 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.

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 – AUSTRALIA ONLY

WARRANTY ON REPLACEMENTS PARTS.

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

PERIOD OF WARRANTY – YEARS

Unit Components	RESIDENTIAL		COMMERCIAL	
	Parts	Labour	Parts	Labour
Corrosion on Cabinet	25	3	2	2
Structural Guarantee	10	3	2	2
** All other components	3	3	1	1

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

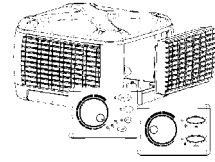
PROOF OF PURCHASE

It is important that the name of the Dealer or Retailer from whom you purchased your product and the name of the installer are 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 gas 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:	
Commission check list completed.	Signed
Installed by:	



Warranty – AUSTRALIA ONLY

SERVICE

A qualified service technician should conduct any service work carried out on your ducted 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 authorized Climate Technologies service provider must carry out warranty service.

For Metro Service only ring the numbers below.

South Australia	(08) 8307 5230
NSW / ACT	(02) 6953 5968
Western Australia	(08) 9358 4755
Victoria	(03) 8795 2456

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



“Excelling today for a better tomorrow”

Manufactured by:



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