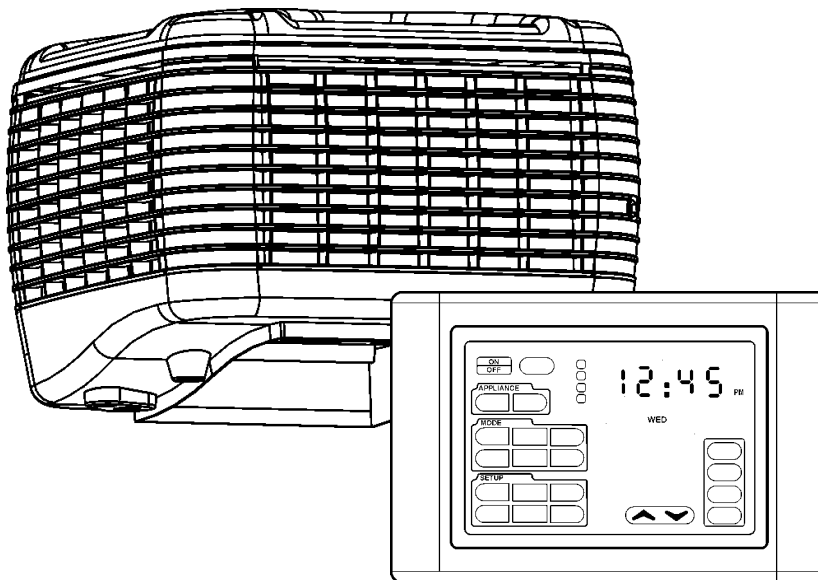


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# Owner's Manual

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*Using the*  
**Ducted Evaporative Air Conditioning**  
*with Your*  
**Touch Pad 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.

[www.climatetechnologies.com.au](http://www.climatetechnologies.com.au)

## **Navigating the Controls**

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*You have chosen one of the world's most advanced Touch Pad systems incorporating the latest technology.*

*The Touch Pad control is an Australian and world first for its use with ducted heating and cooling systems. Designed exclusively for Climate Technologies, the self-prompting display panel controls your unit's functions, providing the ultimate cooling flexibility.*

*This technologically advanced controller comes with manual and thermostat control, programmable timer, boost function plus many other setup functions.*

*Your Touch Pad Control is designed to automatically detect the appliances during the commissioning of the unit by the installer. Controller options not required for your appliances will usually not be visible on your Touch Pad display.*

Due to Climate Technologies policy of continuous product improvement, design and technical specifications are subject to change without notice.'

E.& O.E.

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## Navigating the Controls

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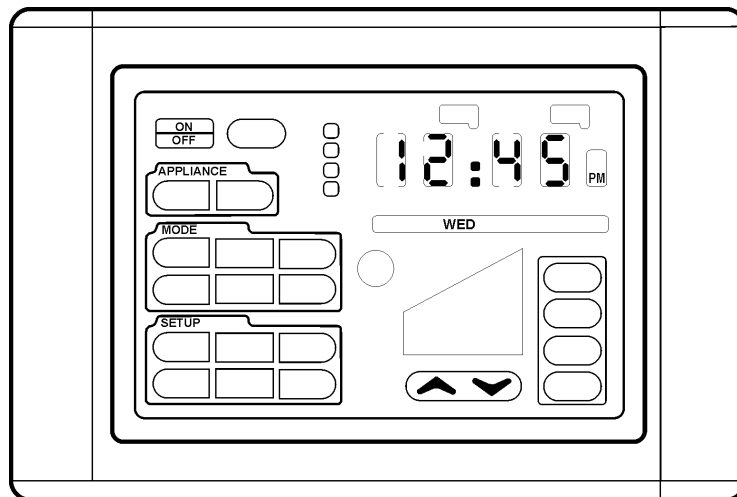
## Navigating the Controls

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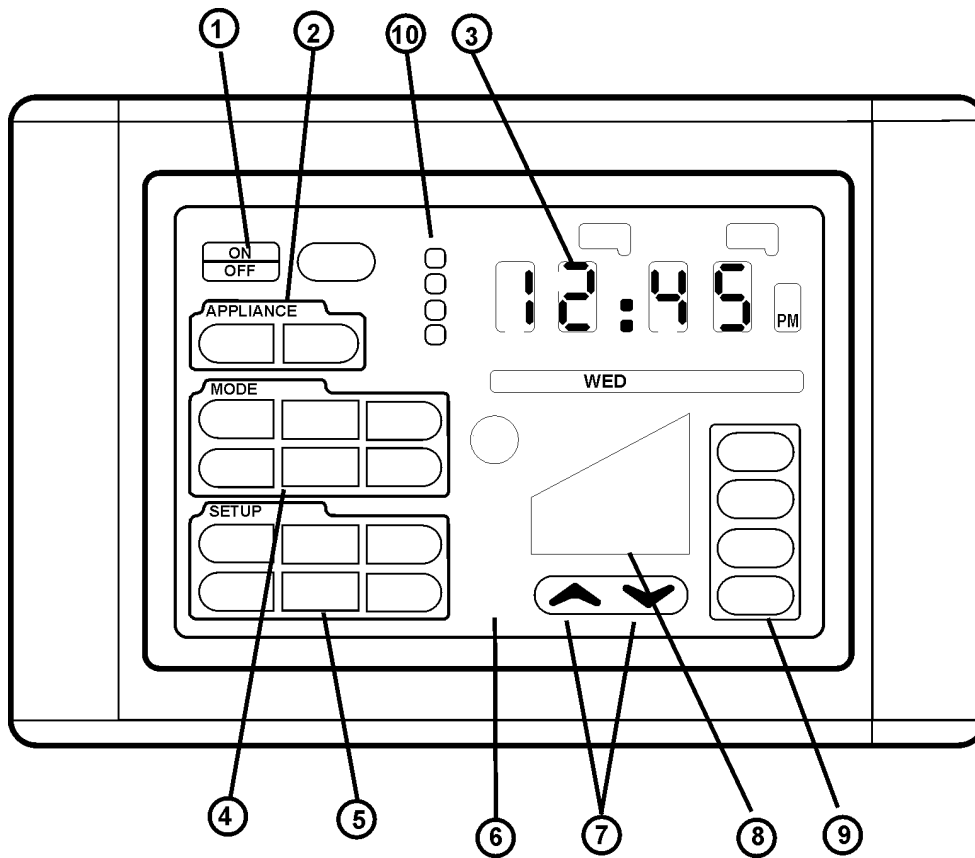
### Introduction

The Touch Pad control is an Australian and world first for its use with air conditioning systems. Designed exclusively for Climate Technologies, the self-prompting display panel controls your unit's functions, providing the ultimate in cooling flexibility.

This technologically advanced controller comes with manual and thermostat control, programmable timer, boost function as well pre-cool, pre-fill and dumping setup options.



## Navigating the Controls



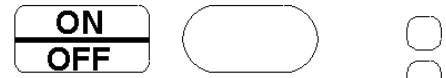
Number	Description	Function
1	ON / OFF	Turns the unit ON or OFF
2	APPLIANCE	Touch any area with the APPLIANCE outline to select product.
3	CLOCK	12 hour clock denoting AM / PM and the day.
4	MODE	Touch any area within the MODE outline and the available operating modes will be displayed.
5	SETUP	Touch any area within the SETUP outline and the available operating modes will be displayed.
6	FUNCTION SYMBOLS	Symbols indicate the unit components functioning.
7	UP / DOWN ARROWS	Arrows will adjust the output of the unit.
8	FUNCTION LEVEL	Function level displays the output level settings with graphic bars
9	ZONES	Where there is more the one unit fitted the zones buttons can control the ON / OFF function of one or more air conditioners.
10	Periods	This identifies which time period program is operating.

## Navigating the Controls

### Touch Pad Functions

#### ON / OFF

When pressing the ON / OFF button to turn the unit on, the touch pad control will return to the last used setting.



#### APPLIANCE

When unit is turned on the last used appliance will be activated. There is the possibility of having an Ultra High Efficiency gas fired central heater operated from the same control.

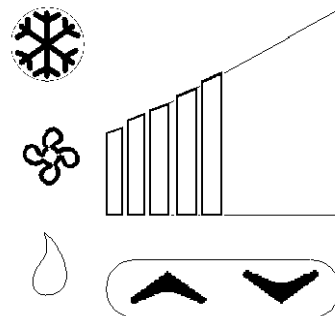
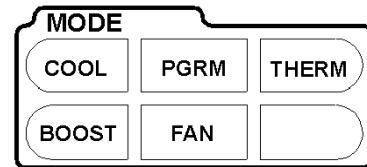


Press any area within the Appliance area and if there is a heater fitted the option will display COOL or HEAT. Press the required product. After 3 flashes the selection will be accepted.

#### MODE

To view the MODE options available press the touch pad anywhere within the MODE area. The available functions for COOL (Evaporative Air Conditioning) are:

- COOL - Fan and Pump in manual mode. This means the fan can be adjusted manually via the UP / DOWN arrows.
- BOOST - The fan will operate at maximum speed.
- PGRM - The unit can be set up in Program Mode to turn the unit ON and OFF in the desire mode operation. Program mode will operate for a 24-hour period from the moment it is activated.
- FAN - Fan only in manual mode. This means the fan only can be adjusted via the UP / DOWN arrows.
- THERM - Thermostat mode will control the unit via a temperature sensor. Set the comfort level and the unit will automatically increase or decrease according to demand. The comfort level can be adjusted using the UP / DOWN arrows to increase or decrease the amount of cooling required.
- ECON – Economy is not displayed, as it is a central heating function only.

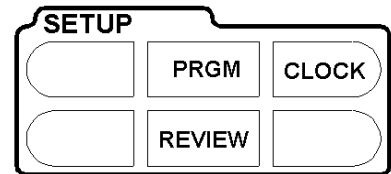


## Navigating the Controls

### SETUP

To view the SETUP options available, press the touch pad anywhere within the SETUP area. The available functions are:

- PGRM – Program setup allows you to create a timed program to start and stop the air conditioner. There are 4 period programs available requiring a minimum of 2 to be set. The program option will only function for 24 hours and then the unit will stop.
- CLOCK – Setting the time
- REVIEW – Pressing the review button will automatically step the control through the timer programs set.

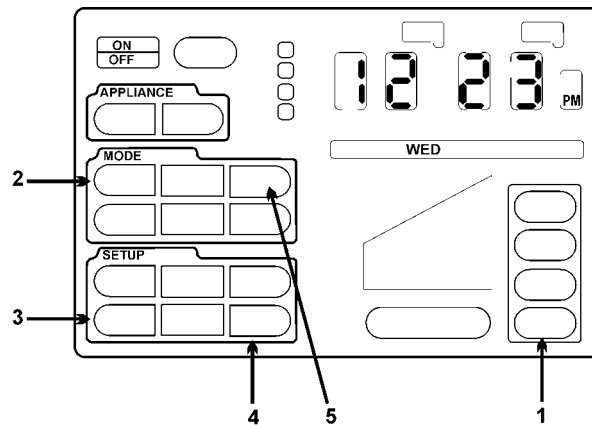


### RESETTING the Touch Pad Control.

Resetting the Touch Pad Control will return the Touch Pad to its default settings for all configuration and program options.

**This function does not reset the cooler.**

To reset the Touch Pad Control a number of unseen icons will need to be pressed.



**Step 1** Ensure the control is turned OFF.

**Step 2** Press the ZONE 4 icon until a triple BEEP followed by single BEEP is heard.

**Step 3** In quick succession press COOL, CANCEL, FINISH and THERM icons.

Press and wait for a buzz followed by a beep

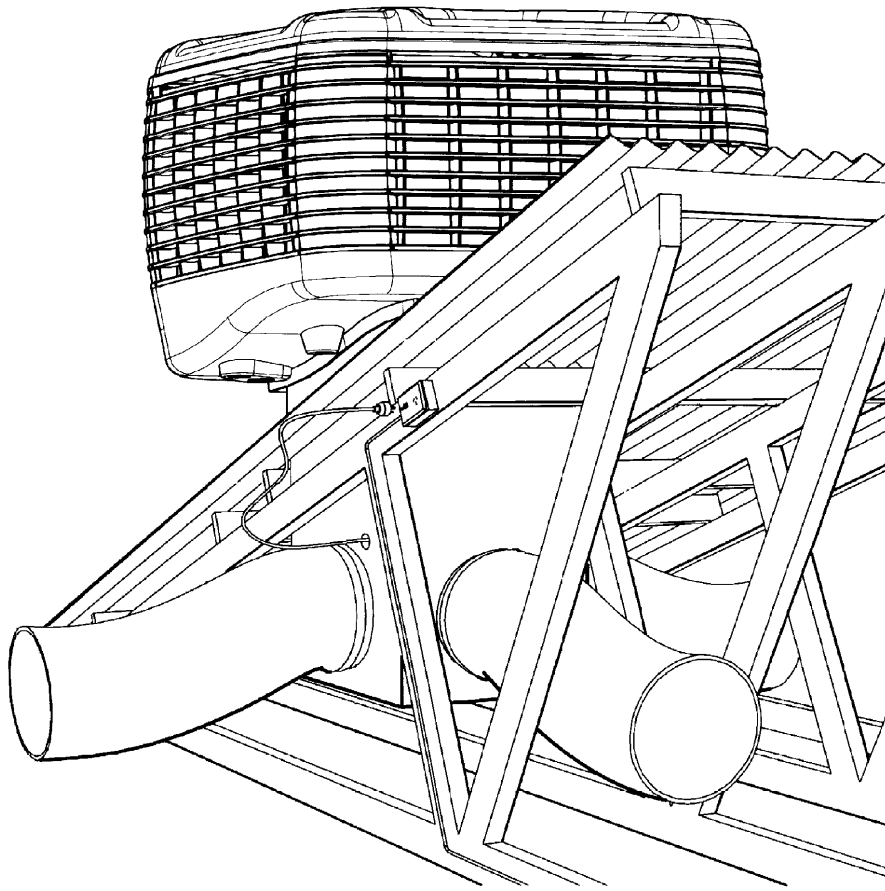
All the icons on the screen will now light up. They will slowly disappear one by one. Once all the icons have cleared it will take approximately 1 minute for the control to return to an operating mode. The time will be displayed when the RESET is complete.

If unsuccessful restart from **STEP 1**.



## **Ducted Evaporative Air Conditioning**

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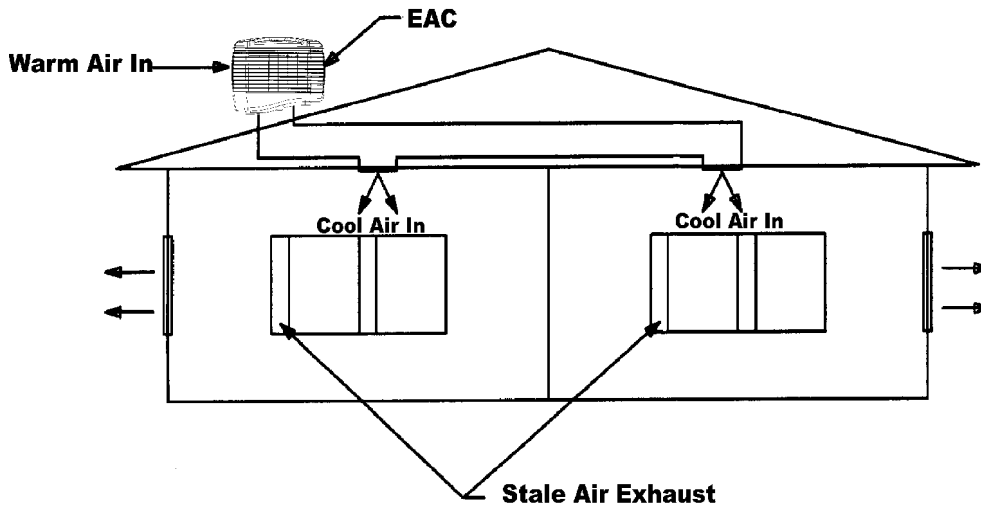


### **Owners Operating and Maintenance**

## Ducted Evaporative Air Conditioning

### Introduction

Your ducted evaporative air conditioner is engineered to meet the rigours 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.



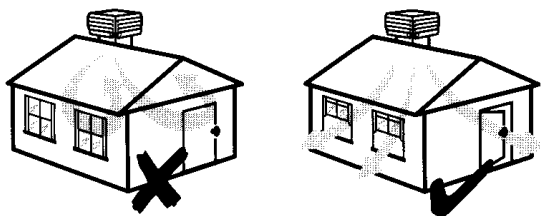
The principal of your unit is to introduce fresh air, which is washed through the filter pads to provided cool fresh air. The air is exhausted taking with it any heat loadings on the home.

### Unit Operation

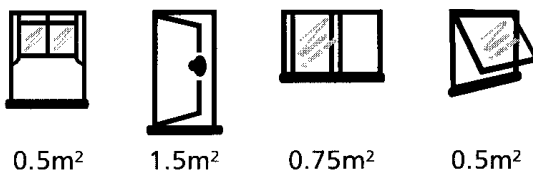
#### Exhaust

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	0.85 m <sup>2</sup>
Medium	1.48 m <sup>2</sup>
Large	2.02 m <sup>2</sup>

## Ducted Evaporative Air Conditioning

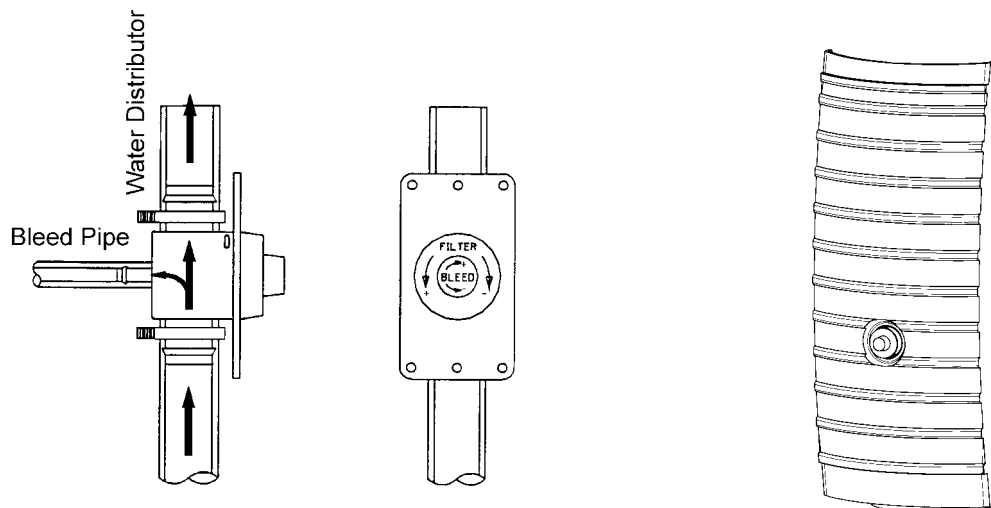
### Bleed-off

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 downpipe in situations where the discharge may cause unsightly stains, eg. Colour bond Roofs.



Note: To control water volume to filter pad rotate filter 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.



## Ducted Evaporative Air Conditioning

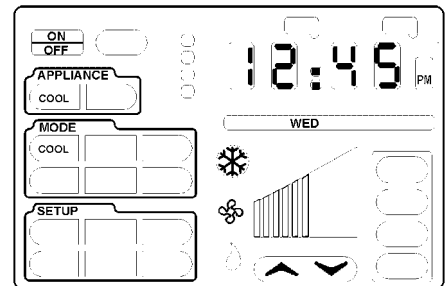
### Operating the Touchpad

To operate your touch pad control simply press the operating area required firmly until a “Beep” is heard. The unit will then display the next available options or it will be ready to operate.

If the unit does not start immediately and the snow flake and fan icons are flashing, the unit will be going through the pre-cool mode setup up by the installer.

#### MANUAL MODE

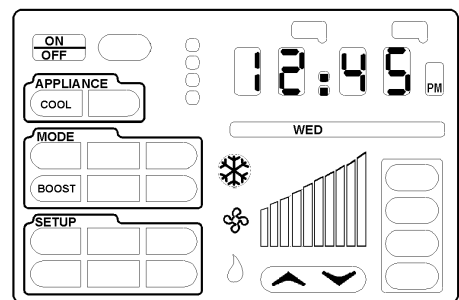
- Step 1** Press the ON / OFF button to turn the unit on.
- Step 2** The Appliance will be in cool mode.
- Step 3** To select the COOL (Fan and Pump) or FAN mode touch anywhere in the MODE outline and the available icons will be illuminated.
- Step 4** Press COOL or FAN. The selected icon will stop flashing. The remaining icons will flash 3 more times and then disappear.
- Step 5** To adjust the air output use the   to adjust the air output. The level of adjustment is measured by the bar graph display.



#### BOOST MODE



Boost mode is an option to run unit in cool mode at maximum speed.

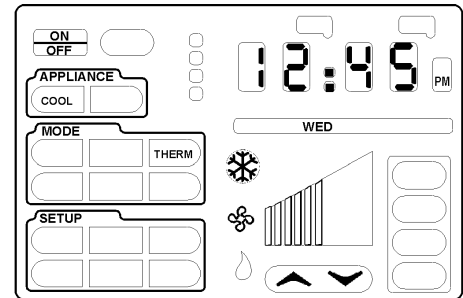
- Step 1** To select the BOOST touch anywhere in the MODE outline and the available icons will flash.
- Step 2** Press BOOST to select the MODE and the icon will stop flashing. The remaining icons will flash 3 more times and then disappear.



## Ducted Evaporative Air Conditioning

### THERMOSTAT MODE

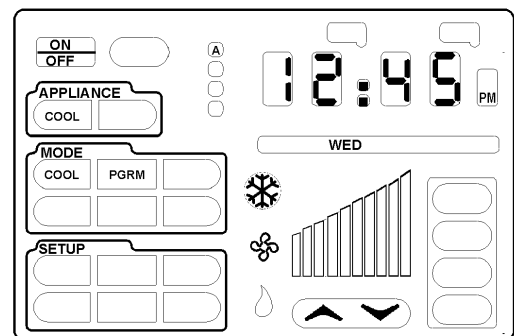
- Step 1** Press the ON / OFF button to turn the unit on.
- Step 2** The Appliance will be in COOL mode.
- Step 3** To select the THERM (Thermostat) mode touch anywhere in the MODE outline.
- STEP 4** Press THERM and the selected icon will stop flashing. The remaining icons will flash 3 more times and then disappear.
- Step 5** To adjust the comfort level use the  . Increase the graphics scale for more cooling, decrease for less cooling.



*Note: The comfort level is individual to each situation and location. Some trial and error may be required to set the graphic scale to your desired comfort level; a good starting point is to have the scale set at approximately the half way mark. 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.*

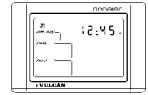
### PROGRAM MODE

- Step 1** Press the ON / OFF button to turn the unit on.
- Step 2** The Appliance will be in cool mode.
- Step 3** To select the PRGM (Program) mode touch anywhere in the MODE outline.
- Step 4** Press PGRM. The selected icon will stop flashing and the remaining icons will flash 3 more times and then disappear. In addition the programmed mode of operation icon will also be displayed when the program calls for it.



This function will only enable program mode. To setup the program parameters refer to the section "Operating the Touch Pad – SETUP" to edit the settings.

**Program Mode will only operate for a 24hour period from activation and then the product will cease to function until the unit is restarted.**



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## Setup & Commissioning

---

### Introduction

Touch Pad Control: Low voltage control featuring touch control options and thermostat, timed delayed starting and stopping, and dump valve features.

All Low Voltage Controls: 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 local Climate Technologies office.

#### Is the control system correct?

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



## Setup & Commissioning

### Control Location

1. Locate the wall switch on an internal wall of a conditioned room of the home, 1.5m above the floor level, in an easily accessible location as agreed with the customer.
2. 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 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:

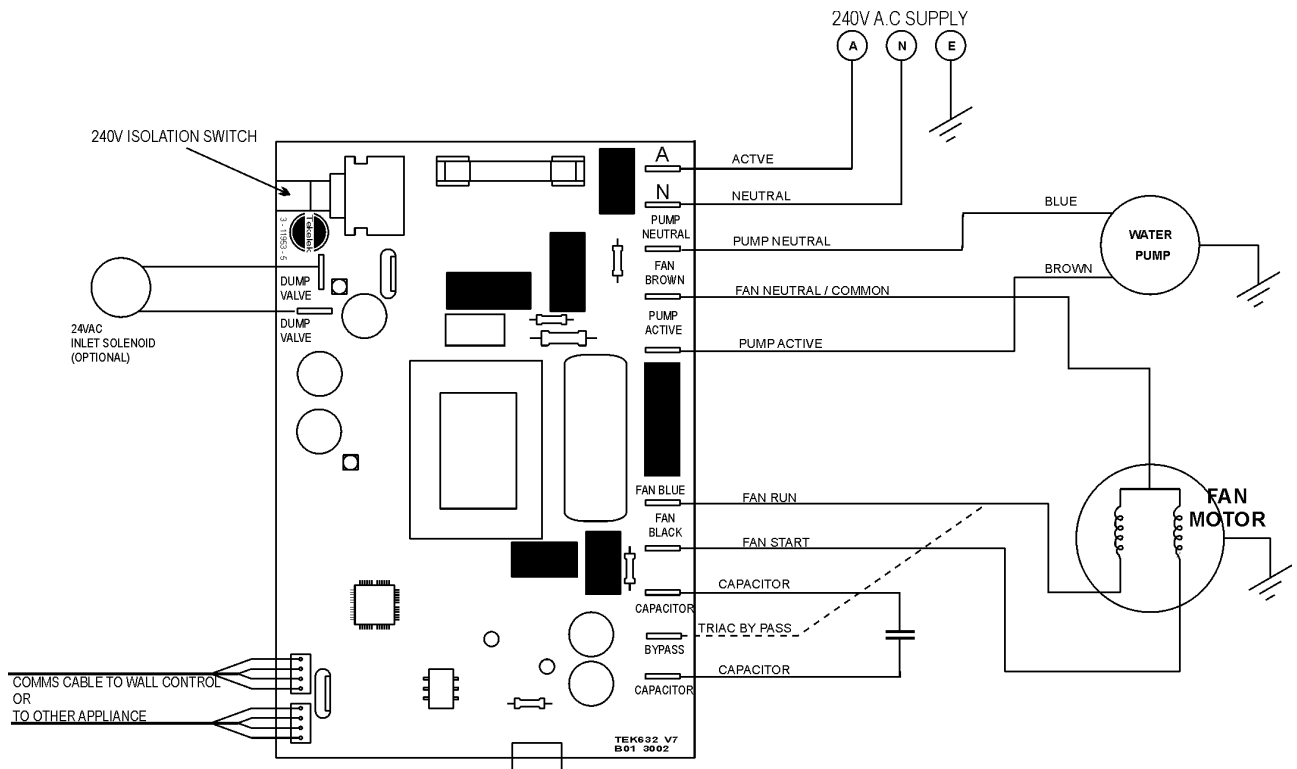
1. Connect the low voltage loom to one of the communication points in the unit control box. Refer to wiring diagram
2. Pull the cable through to the designated point for the permanent application of the wall control.
3. Mount the control base plate to the wall.
4. Connect the loom to the wall control and fit the control panel to the base plate.
5. The Programmable and Touch Pad wall controls can control up to 4 units. The manual control can only control one unit.



## Setup & Commissioning

### Circuit Diagram

#### TEK600 Series



The TOUCH PAD and the PROGRAMMABLE CONTROL HAVE a number of operation options for the installer to set before commissioning the unit.





## Setup & Commissioning

### Setup Options.

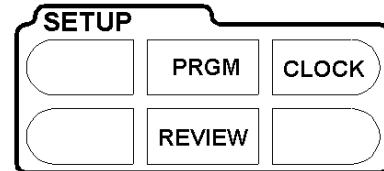
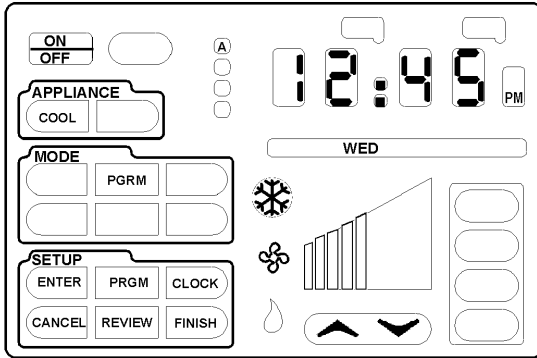
OPERATION	FUNCTION
<b>DUMP DELAY</b>	<ul style="list-style-type: none"> <li>• This mode controls the dump valve. (If fitted).</li> <li>• The dump delay is used to set the dump valve to dump 40 seconds after the pump is turned off or can be set to dump one hour after the pump has turned off.</li> <li>• After 40 seconds or 1 hour the base is drained and left dry until the next cycle.</li> </ul>
<b>PRE-COOL</b>	<ul style="list-style-type: none"> <li>• The pre-cool feature is used to let the pump wet the pads for 1.5 minutes before the controller turns the fan on.</li> <li>• This feature applies to COOL and THERM modes on Touch Pad.</li> <li>• This feature applies to the COOL and AUTO modes on Programmable Control.</li> <li>• The pre-cool can be selected to be either on or off.</li> </ul>
<b>DUMP INTERVAL</b>	<ul style="list-style-type: none"> <li>• 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.</li> <li>• When the dumping time interval has timed out, (eg.: 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 1.5 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.</li> </ul>
<b>PRE-FILL</b>	<ul style="list-style-type: none"> <li>• 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.</li> </ul>



## Setup & Commissioning

### Setup

In setup mode there are 2 setup mode icons and 4 function icons. To enter SETUP mode, touch anywhere within the SETUP outline. The accessible icons will be displayed.



Accessible Icons

### Review

Review is a feature that allows you to first view the current program settings. Each step remains visible for 3 seconds.

Once the review procedure has started the FINISH icon will be illuminated. The FINISH icon can be used to stop the REVIEW process.

### Program Setup

Program setup will take you through the steps to set your evaporative air conditioner.

**Step 1** To select the PGRM (Program) mode touch anywhere in the SETUP outline.

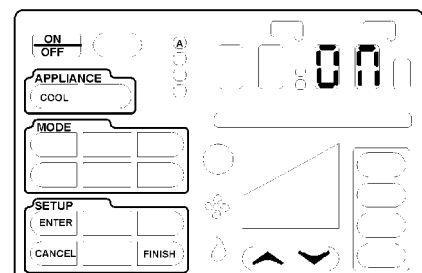
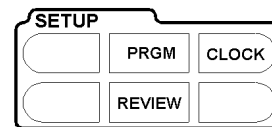
**Step 2** Press PGRM. The 3 icons will disappear and edit mode has begun with the 1<sup>st</sup> period.

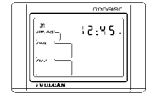
**Step 3** Two new icons will now be displayed ENTER & CANCEL.

- ENTER will save each step of the program
- CANCEL will step back the program 1 step at a time.

**Step 4** The first period will be displayed with ON or OFF. Using the arrows make a selection and press ENTER.

**Step 5** Set the Hour using the UP DOWN arrows and press ENTER





## Setup & Commissioning

### Program Setup .....Continued

**Step 6** Set the Minutes using the arrows and Press ENTER

**Step 7** Select the MODE of operation and press ENTER.

**Step 8** Adjust the output using the arrows and press ENTER

**Step 9** Program the second period using steps 4 to 8.

**Step 10** If only 2 program periods are required press FINISH. If a 3<sup>rd</sup> period is required program using Steps 4 to 8.

**Step 11** If only 3 program periods are required press FINISH. If a 4<sup>th</sup> period is required program using Steps 4 to 8.

**Default Setup Evaporative Air Conditioning Program**

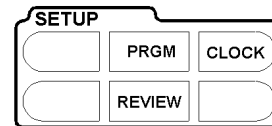
Period	ON/OFF	Start Time	Mode
1	ON	6:00 am	THERM
2	OFF	9:00am	-
3	ON	4:00 pm	THERM
4	OFF	10:00 pm	-

Program setup is now complete and all functions are resumed.

### Clock Setup

Timer setup will take you through the steps to set your evaporative air conditioner

**Step 1** To select the CLOCK setup touch anywhere in the SETUP outline.



**Step 2** Press CLOCK. The 3 icons will disappear and edit mode has begun.

**Step 3** Three new icons will now be displayed ENTER, CANCEL & FINISH.

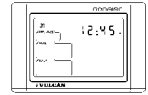
- ENTER will save each step of the program
- CANCEL will abort the setup and no entries will be saved.
- FINISH allows you to stop at any time and save the settings.

**Step 4** Adjust the hours using the arrows. Press ENTER

**Step 5** Adjust the minutes using the arrows. Press ENTER.

**Step 6** Adjust the day using the arrows. Press ENTER.

Time setup is now complete and all functions are resumed.

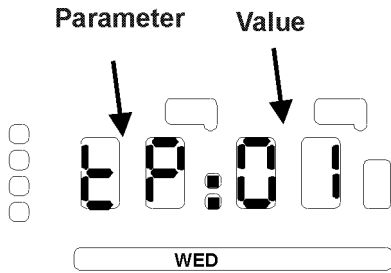


## Setup & Commissioning

### Setup Parameters

There are a series of available parameters that can be modified to tailor the control to meet the customer's requirements. Carefully read these tables before entering the maintenance modes.

There are a number of potential product classes that the touch pad control system will control. The class is the first requirement for selection when entering the maintenance mode.



Appliance Class	Code
Touch Pad Wall Control	tP
Heater	H
Evaporative A/C	E
Refrigerative A/C	C
Combined Heater - Cooler	HC

### Parameter Tables

#### Water Management

Installer Maintenance	Parameter	Default	OFF Value	ON Value
Dump Delay after shutdown	1	01	00 = OFF	01 = 1 hr
Pre-Cool	2	01	00 = OFF	01 = 1.5 min
Dump Interval	3	00	00 = OFF	01,02,03,04,05,06 = 1, 2, 4, 8, 12,24 hrs
Sump fill before Pre-fill	4	01	00= OFF	01 = 1.5 min

#### Diagnostic Mode

Installer Maintenance	Parameter
Fill Valve	1
Fill Valve & Pump	2

#### Fan Speed

Installer Maintenance	Parameter	Default	Value Range
Low Fan Speed	1	92	40 – FF
High Fan Speed	2	FF	FF – 9b

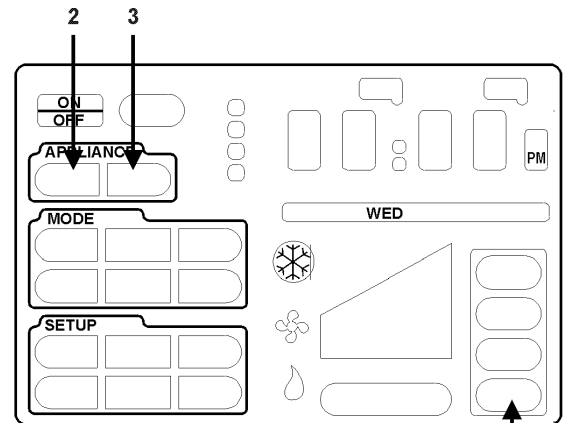


## Setup & Commissioning

### Setting the Water Management Systems Parameters and values

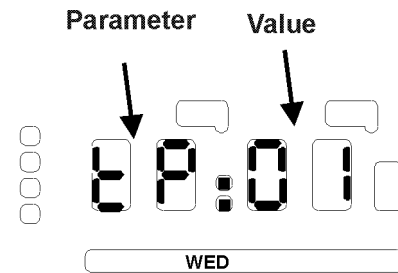
To enter into the installer setup mode the water management options the following steps must be followed.

- STEP 1** Ensure the control is in the OFF mode.
- STEP 2** A series of unseen icons must be pressed
1. Press and hold the ZONE 4 icon allowing for a BUZZ followed by a BEEP.
  2. In quick succession press the unseen APPLIANCE COOL icon followed by the HEAT icon.
  3. If successfully executed the clock LEDs will display **tP:01**.
  4. If unsuccessful repeat 1 and 2 of STEP 2.



1  
Wait for a Buzz followed by a Beep

- STEP 3** Using the select the LED display changed to **E: \_ \_**.



- STEP 4** Press ENTER. The display will now change to **1:01**.

- STEP 5** Using the select the parameter to be changed. Press ENTER.

- STEP 6** Using the change the value as per the table on page 20. Press ENTER.

- STEP 7** To change more water management parameters repeat Step 4 – 7.

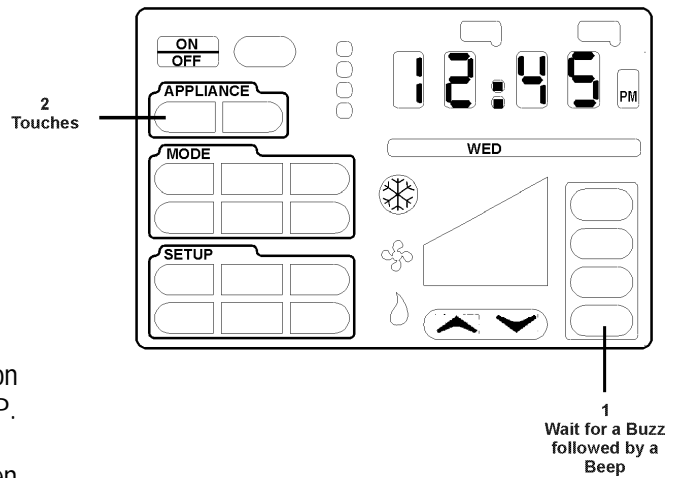
- STEP 8** Press FINISH to exit.



## Setup & Commissioning

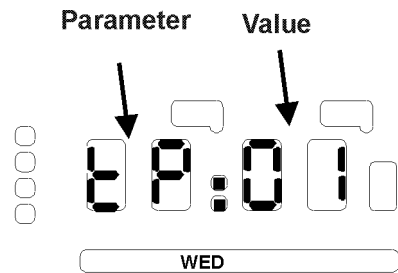
### Setting the Water Level & Bleed rate

To enter into the installer maintenance mode to check water level and pump function, the following steps must be used:-



- STEP 1** Ensure the control is in the OFF mode.
- STEP 2** A series of unseen icons must be pressed
  1. Press and hold the ZONE 4 icon allowing for a BUZZ followed by a BEEP.
  2. In quick succession press the unseen APPLIANCE COOL icon 2 times.
  3. If successfully executed the clock LEDs will display **tp:01**.
  4. If unsuccessful repeat 1 and 2 of STEP 2.

**STEP 3** select the LED display changed to **E:\_**  
\_.



**STEP 4** Press ENTER. The display will now change to **1:00**.

**STEP 5** Press ENTER.

**STEP 6** Press ENTER.

**STEP 7** To select the other diagnostic parameter repeat Step 4 – 7.

**STEP 8** Press FINISH to exit.

#### Diagnostic Mode

Installer Maintenance	Parameter	Duration
Fill Valve	1	10 Minutes
Fill Valve & Pump	2	20 Minutes



## Setup & Commissioning

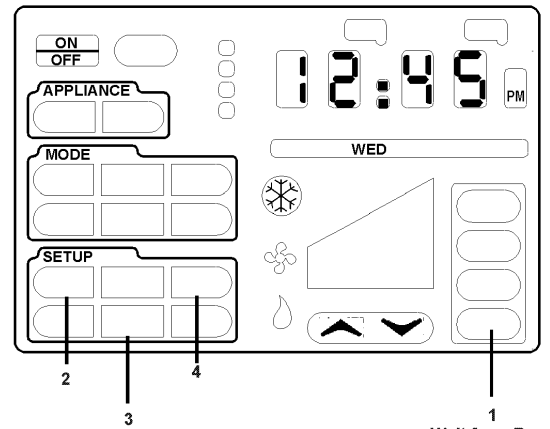
### Setting the Fan Speed

To enter into the installer maintenance to adjust minimum and maximum fan speeds; the following steps must be followed.

**STEP 1** Ensure the control is in the OFF mode.

**STEP 2** A series of unseen icons must be pressed

1. Press and hold the ZONE 4 icon allowing for a BUZZ followed by a BEEP.
2. In quick succession press the unseen SETUP icons ENTER, REVIEW & CLOCK.
3. If successfully executed the clock LEDs will display **tP:01**.
4. If unsuccessful repeat 1 and 2 of STEP 2.



1  
Wait for a Buzz followed by a Beep

**STEP 3** Using the select the LED display changed to **E: \_ \_**.

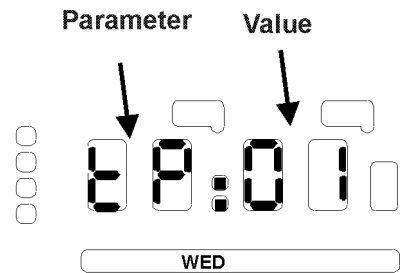
**STEP 4** Press ENTER. The display will now change to **1:01**.

**STEP 5** Using the select the parameter to be changed. Press ENTER.

**STEP 6** Using the change the value as per table below. Press ENTER to check the revised setting.

**STEP 7** To change the other fan speed parameter repeat Step 4 – 7.

**STEP 8** Press FINISH to exit.



#### Fan Speed

Installer Maintenance	Parameter	Default	Value Range
Low Fan Speed	1	92	40 – FF
High Fan Speed	2	FF	FF – 9b



## Setup & Commissioning

### Problem Solving

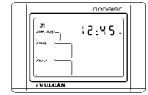
PROBLEM	PROBABLE CAUSE	REMEDY
<b>Unit fails to start</b>	<ul style="list-style-type: none"> <li>a Black – out</li> <li>b Tripped Circuit Breaker</li> <li>c Blown Fuse</li> <li>d Electrical Fault</li> </ul>	<ul style="list-style-type: none"> <li>a Wait</li> <li>b Reset</li> <li>c Replace</li> <li>d Call Climate Technologies Service Provider</li> </ul>
<b>Pump fails to start</b>	<ul style="list-style-type: none"> <li>a Pump Seized</li> <li>b Pump Burnt Out</li> </ul>	<ul style="list-style-type: none"> <li>a Isolate power and then take off top of pump and try to free it. Some lubricant may help.</li> <li>b Call Climate Technologies Service Provider</li> </ul>
<b>Water leaking from overflow</b>	<ul style="list-style-type: none"> <li>a Float Valve Leaking</li> <li>b Drain from Celdek Pads</li> </ul>	<ul style="list-style-type: none"> <li>a Check adjustment or replace seal</li> <li>b Normal Operation</li> </ul>
<b>Water Droplets in air stream</b>	<ul style="list-style-type: none"> <li>a Loose Delivery Tube</li> <li>b Break in tubing</li> <li>c Pump Delivers Excessive Water to Pads</li> </ul>	<ul style="list-style-type: none"> <li>a Check and tighten</li> <li>b Replace as necessary</li> <li>c Adjust the Dialflo to reduce the flow</li> </ul>
<b>Excessive humidity</b>	<ul style="list-style-type: none"> <li>a Inadequate Exhaust</li> <li>b Outside humidity high</li> </ul>	<ul style="list-style-type: none"> <li>a Provide more open area to exhaust stale air</li> <li>b Turn pump off.</li> </ul>
<b>Inadequate Cooling</b>	<ul style="list-style-type: none"> <li>a Dirty Filters</li> <li>b Dry Filters</li> <li>c Dialflo not set correctly</li> </ul>	<ul style="list-style-type: none"> <li>a Clean</li> <li>b Check water delivery system. Adjust if necessary.</li> <li>c Adjust Dialflo so that the pads have even saturation.</li> </ul>
<b>Unpleasant Odor</b>	<ul style="list-style-type: none"> <li>a Unit located near odor source</li> <li>b New Celdek filter smell</li> </ul>	<ul style="list-style-type: none"> <li>a Remove source</li> <li>b Smell will disappear after a period of operation.</li> </ul>
<b>Rapid formation of white deposits on pads</b>	High Mineral Content	Bleed off should be set at maximum. More regular maintenance may be required.

THIS TROUBLE SHOOTING GUIDE IS A REFERENCE ONLY.

FOR SERVICE OR WARRANTY REQUIREMENTS PLEASE REFER

TO THE LAST PAGE OF THESE INSTRUCTIONS





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## Setup & Commissioning

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### INSTALLATION CHECK LIST

#### *Unit*

- All equipment ordered by the customer is installed.
- The unit is level and secure.
- 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 65-70mm 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 Superclean Dump Valve (option). The tank drains correctly when unit turns off.
- The fan deck is correctly located and the fan blade spins freely.
- The mains and control wiring are complete and the circuit breaker and GPO are turned ON.
- 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.
- All Controller functions for the appliance operate.
- 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 and general*

- All ductwork is completed to plan, correctly supported and airtight, with no bend less than 1.5 x the duct work 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.



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## Setup & Commissioning

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### *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
- Maintenance requirements

## Unit Maintenance

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**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.

### Water Tank

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 Tank.

### Water Level / Float Valve

The water level should be set at nominal 65-70mm from the top of the overflow before filter pads are saturated. After run off from operating filters the level from the top of the overflow fitting should be 25 – 30mm. 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. Isolate the water. 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. This is normal.

### 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.

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## **Unit Maintenance**

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### **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.

### **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.

## Warranty – Australia ONLY

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### Warranty Statement.

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

Any part 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, water or gas supply, or where defects are caused by neglect, incorrect application, abuse or by accidental damage of the appliance, or by an unauthorised 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.

### PERIODS 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 is recorded on page 44. 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::	
Dealer Address:	
Dealer Phone Number:	
Unit Model Number:	
Serial No:	
Date Installed:	
Installed by:	
Dealer Stamp:	

## **Warranty – Australia ONLY**

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A qualified service technician should conduct any service work carried out on your ducted gas central heating or 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.

<b>South Australia</b>	(08) 8307 5230
<b>NSW / ACT</b>	(02) 6953 5968
<b>Western Australia</b>	(08) 9358 4755
<b>Victoria</b>	(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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Fax (08) 8283 0401

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LEETON NSW 2705  
Phone (02) 6953 6444  
Fax (02) 6953 6266