Wall Controller & Thermostat

Thank you for purchasing a Genuine component from Seeley International.

This Wall Controller has been engineered and manufactured to the highest standard to maximise the performance of your cooling system.

ILL2419-A

CONTROLLER SETTINGS

Wall Controllers can operate in manual or automatic mode.

Manual mode
Manual mode will allow you to change settings for operating the cooler, such as altering fan speeds, pump control and manual drain control.

Auto mode
Auto mode will allow thermostatic control to set temperature targets/operating settings. It has the capability of programming ON/OFF delay times, enabling the cooler to automatically start up or shut down after a specified period of hours.

At all times the Wall Controller will monitor the cooler for faults and report them to the controller's screen for your reference.
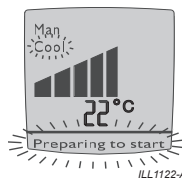
CONTROLLER OPERATION

Preparing to Start
Whenever you select AUTO mode or COOL in MANUAL mode, the cooler will take a few minutes to start as it fills with water and saturates the cooling pads.

The time will be decreased if the tank is full or the cooler has only recently been turned OFF.

During this time "Preparing to Start" will flash on the display.

ILL1122-A

Manual Mode
With the wall control switched ON, press the AUTO button until MAN is shown on the display.

You may then press the COOL button to switch between COOL and VENT (where fresh air is being delivered but not cooled).

Once COOL or VENT has been selected, the wall control will maintain a constant fan speed. This is indicated by the bar graph shown on the display.

To increase or decrease the fan speed required, press either the ⬇ or ⬆ button.

Auto Mode
To select the AUTO mode press the AUTO button until AUTO is shown on the display.
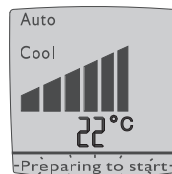
ILL1124-A

In AUTO mode the cooler will remember the last setting used. To change the setting use the ⬇ and ⬆ buttons. Don't alter the setting however, until the room temperature has stabilised.

CONTROLLER OPERATION cont.

Delayed Start or Stop

The cooler can be programmed to start at a specific time or stop at a specific time.

The delayed start time can only be programmed when the cooler is OFF. To program the cooler to start in a certain amount of hours use the following sequence:

Programming In Manual Mode

(1)...... Press the TIMER button.

(2)...... Press the AUTO button until MAN is displayed on the screen.

(3)...... Press the ⌄ or ⌃ button until the desired fan speed is displayed by the bars in the middle of the screen.

ILL1118-A
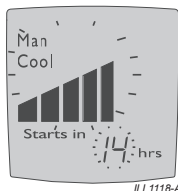
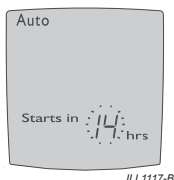(4)...... Press the COOL button to set either COOL or VENT.

(5)...... Press the TIMER button and the 'starts in' time will start flashing.

Use the ⌄ and ⌃ buttons to select the desired time.

(6)...... Press TIMER again.

Programming In Auto Mode

(1)...... Press the TIMER button.

(2)...... Press the AUTO button until AUTO is displayed.

(3)...... Press the TIMER button and the 'starts in' time will start flashing.

Use the ⌄ or ⌃ button to select the hour.

(4)...... Press TIMER again.

ILL1117-B

The delayed stop time can only be programmed once the cooler is ON. This is ideal if you are going to bed but don't want to turn the cooler off straight away. To program the delayed time in which you want the cooler to stop use the following sequence:

(1)......Select the TIMER button and the 'stops in' time will start flashing.

Use the ⌄ and ⌃ buttons to select the desired off time.

(2)......Press TIMER again.

ILL1119-B
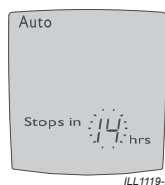
Drain Mode (Cooler switched OFF)

If fitted with a Water Management system, pressing the ⌄ and ⌃ buttons at the same time for 2 seconds will open the drain valve and empty the water in the tank. The wall control will display "**dr**" on the screen.

Changing the Water Management method for the control

To enter Parameter mode, the following process must be carried out within 4 minutes of power being applied to the cooler.

If unsure of time since the last power "ON", remove power to the cooler (Isolator Switch or Circuit Breaker) for a minimum of 6 seconds so the mode can be entered.

1. While wall control is "OFF", push and hold "AUTO" for minimum three (3) seconds. After three (3) seconds while still holding "AUTO" button press the "▼" button. (If "▼" button is pressed before three (3) seconds, nothing will be on the display. If "AUTO" button, is continued to be held subsequent presses of "▼" button will allow access).

2. When parameter mode has been entered, screen will display "A1" - (Water Salinity Control Method) and "Param".

3. To view parameter number set in wall control press " AUTO " momentarily. Figure "A#" on screen will change to number set, and "Param" will change to "value".

CONTROLLER OPERATION cont.

4. To alter the "value" of selected parameter press "⬆" or "⬇". Numbers will change to show different values the parameter can be set to.
   Water Manager = 0
   Timed Drain (CPQ/BMQ Upgrade Kits) = 1
   Non-Drain Valve salinity control (bleed etc) = 2

5. To store the value, press "AUTO". Screen will go blank momentarily as wall control stores parameter change, and returns screen to "A#" and "Param".

6. To exit parameter mode or escape from an alteration without storing a change press "⓪" button instead of "AUTO" button. Remember, once step 5 has been carried out, new parameter change is permanent until again altered.

7. If no buttons are pushed on wall control, after 3 minutes screen will reset to "OFF" state. Procedure to enter parameter mode must be re-initiated.

For models where water management probes and drain valve are fitted, the drain frequency is typically managed by salinity control. There should be no need for adjustment. However if you do wish to change from salinity control to a set interval timed drain, follow these programming steps.

While the thermostat is OFF, hold down AUTO for at least 3 seconds and then press ⬇ while still pressing AUTO.

The setting "A1" will be displayed, release both buttons and then press AUTO.

A number will now be displayed.

Press ⬆ or ⬇ until the number displayed corresponds to the desired setting;
0 = Salinity Control
1 = Timed Drain

Press AUTO to complete the adjustment. Exit the programming mode by pressing ⓪.

Wall Control Displays "Service"

If on initial Installation of a Cooler, or after the wall control has been changed, the word "SERVICE" appears on the Wall control screen and the unit does not respond to the pushing of any buttons even though the backlighting responds.

This is easily rectified and means that communication needs to be established between the Wall control and the electronic controller inside the Cooler.

To establish communications simply push and hold the "DOWN" button until the word "SERVICE" disappears from the screen and the temperature appears. This may take up to 10 seconds. Once communications has been established the unit can be operated.If by pushing the on/off button a number appears, see **"Service Mode Notifications"**.

"SERVICE" immediately on power up indicates communications needs to be established

Push & hold the "DOWN" button for at least 10 seconds until the word "SERVICE" disappears

22°c

"SERVICE" disappears

TEMPERATURE display appears
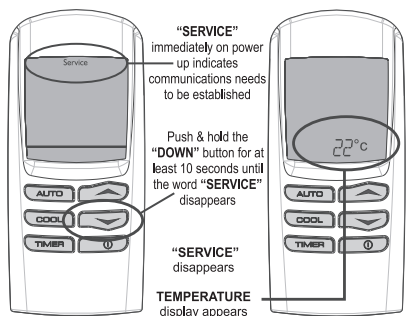
ILL2122-B

Service Mode Notifications

When a fault has been recognised by the wall control the word **"Service"** and a **"Number"** flashes on the screen.

Service

04
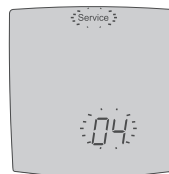
ILL1121-B

Please write this number down, then push the ⓪ button to turn the cooler back on. If after a short time **"Service"** is again shown on the display, turn the wall control OFF and check if the flashing number is the same.

If it is the same check the **"Cooler Control Box LED Indicators"** section for possible problems.

However, we do recommend that any checks be carried out by an authorised dealer or service agent.

SEELEY INTERNATIONAL

REMOTE THERMOSTAT CONTROL
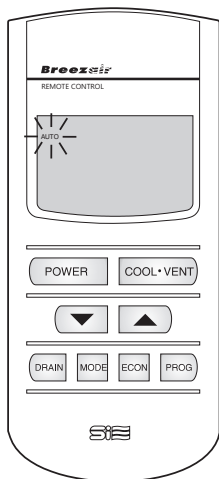
ILL239-A

Horizon Remote Control - Setting the Address Code

Within 4 minutes after turning on the mains power at the electronics module.

The Breezair electronics module will automatically recognise the Horizon remote control connection, provided the address code has been correctly set.

This is simply achieved by fitting the batteries into the remote control The screen will stay blank for 5 seconds then display "Id". The address code will take a few seconds to set, then the remote control can be turned on. If communication cannot be achieved, the power to the cooler will need to be turned off, and the batteries need to be removed from the remote control. Wait until the screen goes completely blank, then repeat the above procedure.

Setting the Clock

Set the clock on the remote control before proceeding with any other programming.

The clock can only be set with the remote control switched OFF. Hold the PROG button down for over 2 seconds, until the hour flashes.

The clock can be set to either 12 or 24 hours. If the clock is set to 12 hours make sure that the AM/PM displayed on the screen is correct. AM/PM will change with adjustment of the hour.

ILL1104-A

Use the ▼ and ▲ buttons to change the hour. To change minutes, press the PROG button again. Change the minutes using the ▼ and ▲ buttons.

To lock in the time setting, and enter the OFF state, press the PROG button. The display will stop flashing.

Turning on the Cooler

The remote control is switched on and off using the POWER button. The memory will store and use the settings from when the cooler was last used. Once the remote control is on, you can choose between MANUAL, AUTO and AUTO TIMER modes by pressing the MODE button.

Manual Mode

With the remote control ON, press the MODE button until MANUAL is shown in the top left corner of the display.
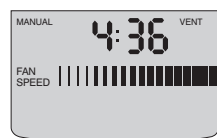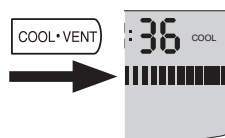
ILL1109-A   ILL1108-A

The COOL·VENT button is used to select VENT (where fresh air is being delivered without being cooled) or COOL. Once either COOL or VENT has been selected, the remote control will maintain a constant fan speed. This is indicated by the bar graph in the centre of the display.

To decrease or increase the fan speed required, press either the ▼ or ▲ buttons.

REMOTE THERMOSTAT CONTROL

Auto Mode

The remote control contains a thermostat. In AUTO mode the cooler is controlled automatically, based on your pre-selected comfort level. The cooler will adjust the fan speed, switch between COOL and VENT and turn itself off. However, the sequence and regularity at which these settings change will differ with each operation of the cooler.

As the remote control senses room conditions, the comfort control settings will be influenced by heat from direct sunlight or electrical appliances. Likewise placing the remote control in cupboards or drawers or under cooling vents will affect the cooler's operation.

To set the AUTO mode press the MODE button until AUTO is displayed.

ILL1105-A

Ten levels of comfort are available with the remote control. While in AUTO mode pressing the ▼ and ▲ buttons will adjust the level of required comfort. The display will show your selection by indicating a level between 1 and 10. WARMER or COOLER will be displayed on the screen as settings are changed.

Auto Timer Mode

AUTO TIMER mode can be selected by using the PROG button. Once the AUTO TIMER mode is selected the cooler will only operate during the programmed time period.

Programming the timer must be performed before AUTO TIMER can be activated. This can be done while in any mode, even when it is OFF. There are 7 steps involved in setting the AUTO TIMER.

NOTE: After pressing the PROG button the display will revert back to the previous setting if no buttons are pressed within 4 seconds.

To program the timer use the following sequence:

(1) Setting the ON time - hour

Begin by pressing the PROG button. The hour displayed will start flashing and the word ON will appear on the screen. Then use the ▼ and ▲ buttons to change the hour value.

ILL1112-A
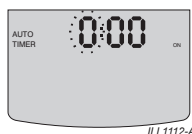
(2) Setting the ON time - minute

Press the PROG button. The minutes displayed will start flashing and the word ON will appear on the screen. Then use the ▼ and ▲ buttons to change the minute setting.

ILL1113-A

(3) Setting the OFF time - hour

Press the PROG button. The hour displayed will start flashing and OFF will be displayed. Then use the ▼ and ▲ buttons to change the hour.

ILL1114-A

(4) Setting the OFF time - minute

Press the PROG button. The minutes displayed will start flashing and the word OFF will appear. Then use the ▼ and ▲ buttons to change the minute setting.
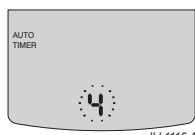
REMOTE THERMOSTAT CONTROL

(4) Setting the OFF time - minute cont.

ILL2416-A

(5) Setting the comfort level

Press the PROG button and the comfort level number (1 to 10) displayed will start flashing. Then use the ▼ and ▲ buttons to change this setting.

ILL1116-A

(6) Setting ECONOMY

To select economy press the ECON button so that it is displayed on the screen.

(7) Activating AUTO TIMER

Now that you have programmed the settings for AUTO TIMER they will be stored in the remote control's memory until you change them. Press the MODE button until AUTO TIMER is displayed on the screen. Your cooler will now only operate during the programmed time period.

NOTE: To change any AUTO TIMER settings when the remote control is switched off, the PROG button needs to be pressed and released within 1 second. To change settings when the remote control is turned on press the PROG button until the desired number is flashing.

Economy Mode

Selecting the ECONOMY mode limits the maximum available cooling or ventilation and reduces the power used by up to 20%. The ECONOMY function can be used in either AUTO or MANUAL modes. To select this mode press the ECON button so that ECONOMY appears on the display.

ILL1125-A

Drain Mode

Pressing the DRAIN button opens the drain valve in the cooler and empties the water in the tank. This will leave the tank clean and dry and turn the cooler off.

ILL1107-A

If the cooler has not been used for 3 days or 3 hours, depending on the DIP switch setting, the tank will automatically be drained to ensure the system remains clean.
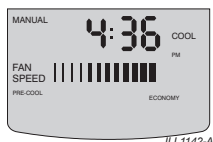
Pre-cool Mode

Your remote control is designed to allow for the saturation of the cooler's cooling pads before the fan is switched on. This function, referred to as PRE-COOL mode, is enabled at DIP switch 4. Once it is enabled the cooler, when first switched on, will operate as follows:

(1)...... If the tank is empty the drain system will be closed. The tank will then be filled.

(2)...... After 60 seconds of the tank filling with water, the pump will turn on and saturate the filter pads.

(3)...... After the pump has been running for 3 minutes the fan will start.

During this operation the word PRE-COOL will be displayed on the remote control's screen.

REMOTE THERMOSTAT CONTROL

Pre-cool Mode cont.

ILL1142-A

NOTE: PRE-COOL mode will not be activated if VENT is selected on the remote control or the cooler is used again shortly after having been turned off.

Dip Switches

WARNING: Once communication between remote and control box has been established, do not alter DIP switches 1 to 8 in the top row and 7 & 8 in the bottom row as the cooler will cease to work.

There are 2 rows of DIP switches located under the battery cover on the remote control.
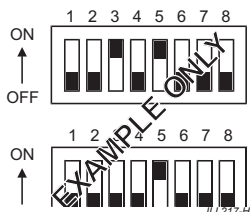
Definition of DIP switch positions (first 6 in bottom row only) are as follows:

1. Reserved for later use.
2. OFF, 24 hour clock, ON, 12 hour clock.
3. OFF, 1100 / 1500W motor,
   ON, 500 / 550 / 750W motor.
4. OFF, no pre-cool, ON, pre-cool.
5. OFF, drains 3 days after power off.
   ON, drains 3 hours after power off.
   (Only for coolers fitted with Solenoid, Probes and Drain Valve).
6. OFF, drains every 65 minutes of operation,
   ON, activates water salinity circuit
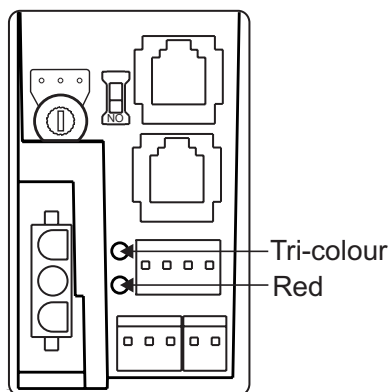   (WATERMANAGER). (Only for coolers fitted with Solenoid, Probes and Drain Valve).

COOLER CONTROL BOX LED INDICATORS

The top LED is "tri-colour" and can glow green, red or amber. The bottom LED is red only. ***If the top LED is double flashing green, everything is ok, this is normal operation.***
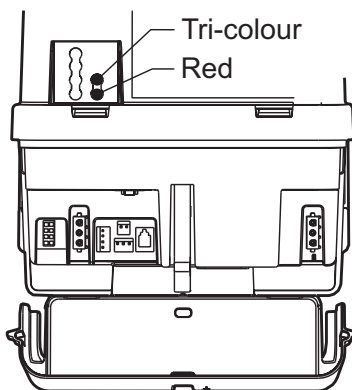
Direct Drive coolers ILL2417-A

Axial Coolers ILL2418-A

COOLER CONTROL BOX LED INDICATORS cont.

The "Tricolour (top) LED" acts as a general diagnostic indicator, and will function as follows:

- ***Green double flash every 2 seconds:*** The control is running normally. If it does not glow at all, then there is either no power to the electronics module (check isolating switch, circuit breaker, plug and socket connection in the roof space), or a failure has occured.

- ***Amber for 1 second (Horizon remote controls only):*** The Electronics Module has received a command at an incorrect ID address. (See the Horizon remote control - setting address code section above, to re establish the code)

- ***Red Flashing:*** one or more of the following faults is present:

  1 Red Flash: Fault Code #1 Communication Failure.

  2 Red Flashes: Fault Code #2 – Failure to Detect Water at Probes. *(Only for coolers fitted with Solenoid, Probes and Drain Valve).*

  4 Red Flashes: Fault Code #4 – Failure to Clear Probes during drain. *(Only for coolers fitted with Solenoid, Probes and Drain Valve).*

  7 Red Flashes: Fault Code #7 - Incorrect Supply Frequency.

The "Red (bottom) LED" indicates the status of the WaterManager measurement circuit and will function as follows:

  1 Flash: The WaterManager is operating and the measured salinity is at the set point.

  2 Flashes: The WaterManager is operating and the measured salinity is above the set point.

  3 Flashes: The Salinity Control Method = Drain every 65 minutes.

  4 Flashes: Incorrect Salinity Control Method selected.

  Continuously On: The probes are open circuit, or measured salinity is less than 20us/cm (the water is very pure, ie; has very little salt content).

Please note

All service and maintenance work should be carried out by suitably trained and licensed personnel. For your local service agent visit seeleyinternational.com and click on the 'get support' tab.

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

It is the policy of Seeley International to introduce continual product improvement. Accordingly, specifications are subject to change without notice.

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