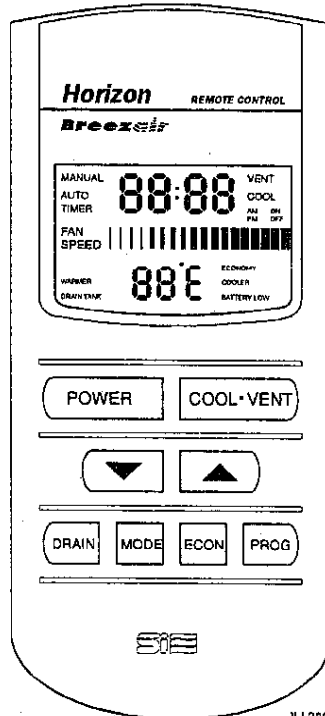


# OPERATING INSTRUCTIONS

EV / ES SERIES  
(PLUG CONNECT)  
"Horizon" Remote Control



ILL256C

# Breezair

**Important**

At Seeley International we appreciate the choice you have made in the purchase of a Breezair Ducted Cooler.

Breezair has been designed to provide you with quiet, reliable, cool comfort when you need it.

Please take a few moments to read the Operating Instructions carefully to enable you to gain the most from your investment.

Your "Horizon" controller is designed to give you the convenience of operating your Cooler from anywhere inside your home. Because this product is a radio control, it does not have to be pointed towards the Cooler to work.

The "Horizon" controller allows fingertip adjustment of your Breezair system while you watch television or from your bedside table.

While the controller is designed to be portable and is quite robust, it does contain electronic sensing devices that may sustain damage through continued rough handling.

Located in the controller are temperature sensing devices which may be affected if the Controller is placed in direct sunlight. (It will think it is unusually hot and increase the cooling effort to counter the high heat load being sensed by the Controller).

Due to the nature of Radio Data Transmission, the Cooler may take up to one second to respond to a change in operation. During this time the data is being sent, the transmission code is being verified, and the data is being checked for errors.

**Installation**

Please ensure that the installer has verified the operation of the control for your Cooler. The installer must check the operation of the control in selected rooms in the house and mark the results in the boxes below. They must also mark the TRANSMISSION CODE in the boxes and sign their name after completion of these tasks (see below).

**INSTALLER CHECKLIST**

ROOM 1	ROOM 2	ROOM 3
Ok <input type="checkbox"/>	Ok <input type="checkbox"/>	Ok <input type="checkbox"/>
No-Go <input type="checkbox"/>	No-Go <input type="checkbox"/>	No-Go <input type="checkbox"/>

**TRANSMISSION CODE**

1	2	3	4	5	6	7	8	9	10

(see inside battery cover  
for factory set code)

.....  
signature

**On/Off**

Your "Horizon" Controller is switched on and off by pushing the POWER button.

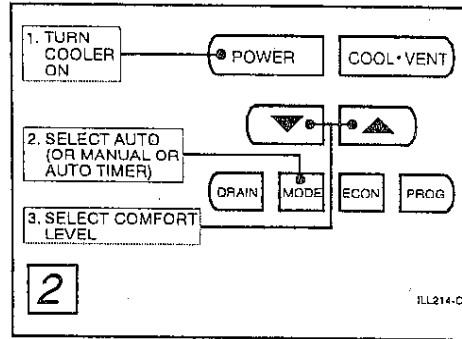
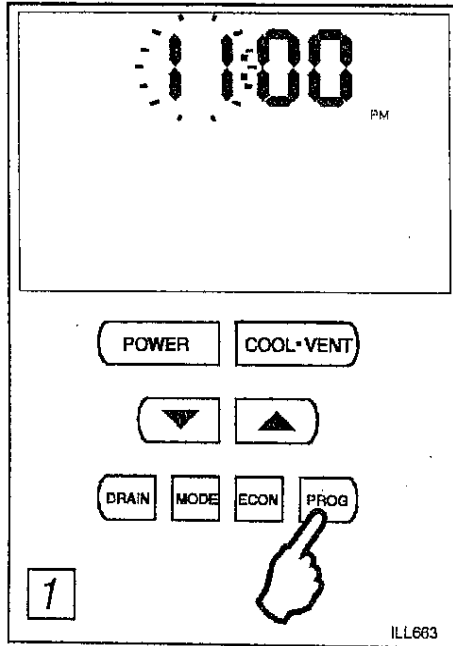
Your "Horizon" Controller will remember any previous settings, however by using the MODE button you can select between Automatic, Manual or Auto Timer control.

**Clock Setting**

**Note: Set the clock to the correct time before proceeding with any other programming.**

Clock can only be set when the control is switched OFF. Hold the PROG button down for over 2 seconds until the hour flashes. Use the ▼ and ▲ buttons to change the time.

Press the PROG button once to change to minutes (see Fig. 1).



(1) Turn cooler ON by pressing the POWER button (The Cooler will start on the previously used setting). If you require Automatic (page 4), Manual (page 6), or Auto Timer (page 5), then these can be selected by pressing the MODE button (see Fig. 2).

(2) In AUTO the ▼ and ▲ buttons allow you to adjust the comfort level at which the Cooler will automatically operate.

Your Breezair will now maintain the comfort level selected. The Cooler will automatically stop once the required comfort level is reached. The Cooler will restart automatically if the conditions inside your home vary from the comfort level selected.

Auto

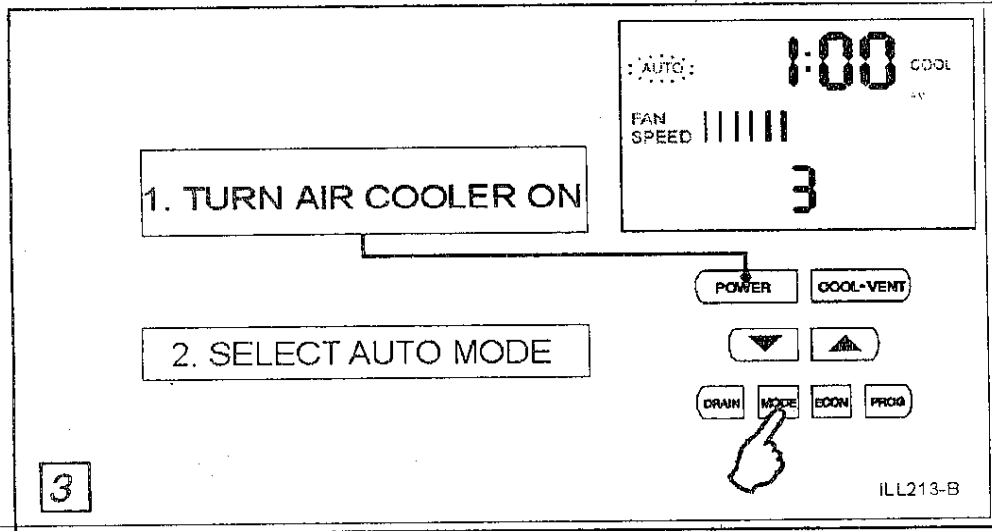
During AUTO control the room temperature is compared to your set comfort level and the optimum Cooler operation is controlled automatically. As the room temperature changes, the Cooler operation is adjusted automatically. We recommend that the controller be kept in its wall bracket and that it is mounted away from direct sunlight. The controller is sensing room conditions and direct sun will influence the comfort control settings.

To select AUTO function see Fig. 3.

During AUTO control you can use all other functions except the COOL - VENT button, as this is controlled automatically.

Comfort Level

Ten levels of comfort are provided by the "Horizon" Controller. During AUTO control, pressing the ▼ or ▲ button adjusts the level of required comfort. The display will show your selection by indicating a set level between 1 and 10. "WARMER" or "COOLER" will be displayed when the setting is changed.



**Auto Timer**

The Auto Timer can be selected using the MODE button. However, the operating times must be programmed first. Once Auto Timer is selected the Cooler will only operate during the programmed time period.

**Programming the Timer**

This can be done with the "Horizon" Controller operating in any mode. There are 6 steps involved with programming the Auto Timer. Begin by pressing the PROG button. (Note that to change Auto Timer Settings when the control is switched off, only the clock is displayed, the PROG button needs to be pressed and released within one second).

**Programming Sequence**

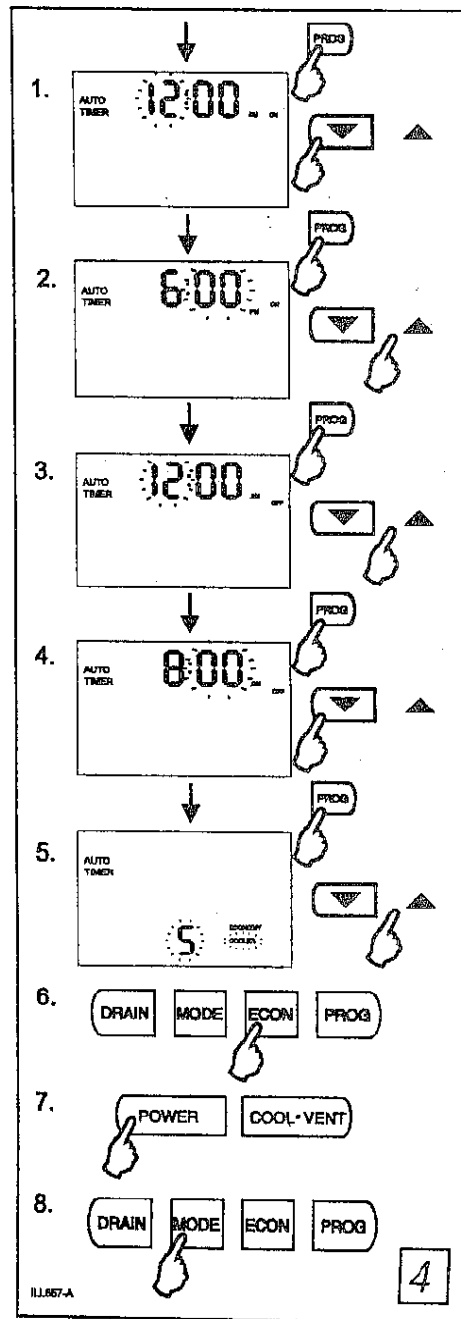
**Note: Cooler must be ON for modes to be selected.**

1. Set the ON TIME hours.
2. Set the ON TIME minutes.
3. Set the OFF TIME hours.
4. Set the OFF TIME minutes.
5. Set the Comfort Level (1-10).
6. Set ECON mode on/off.
7. Press POWER button.
8. Press MODE button to select Auto Timer.

To change between each of the first 5 steps, press the PROG button. The setting being changed flashes once per second. To change the set value, use the ▼ or ▲ button. If no buttons are pressed for 4 seconds, the programming mode will finish.

Programmed settings are stored in memory and you can re-use the Auto Timer daily without having to change them.

To change a particular setting, press the PROG button repeatedly until the setting to be changed is flashing.



**Manual**

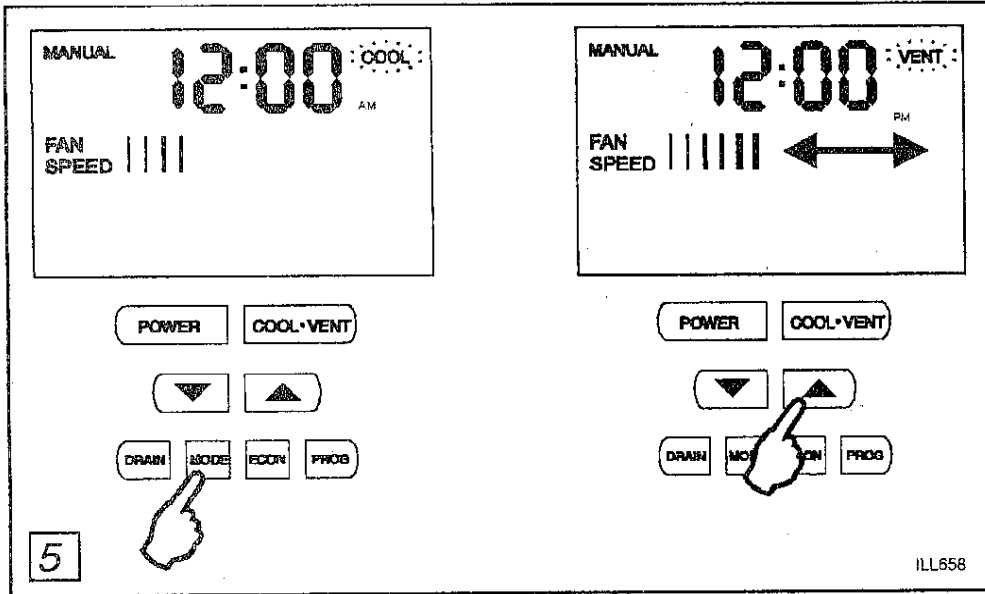
Selecting Manual control using the MODE button will allow COOL (pump on) or VENT (fan only, see Fig. 5) to be selected. Ensure POWER is on before selection.

During ventilation, fresh air is drawn in without being cooled.

Once COOL or VENT has been selected, your "Horizon" Controller will maintain a constant speed as shown by the bar graph, labelled FAN SPEED (see Fig. 5)

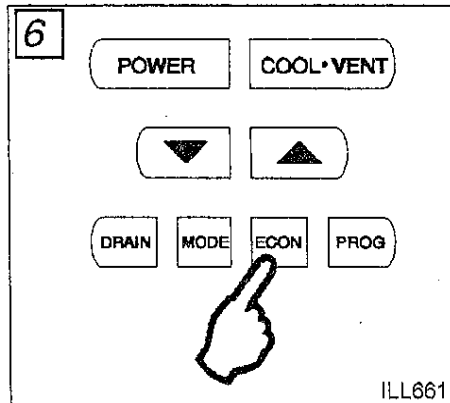
To increase the amount of required cooling or ventilation press the ▲ button.

To decrease the amount of required cooling or ventilation press the ▼ button.



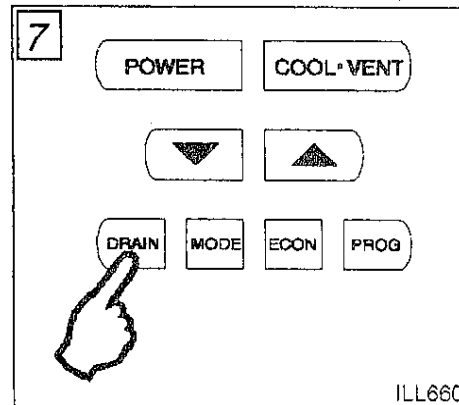
**Economy**

Selecting **ECONOMY** limits the available cooling or ventilation, and reduces power used by up to 20%. The **ECONOMY** function can be used in either Auto, Manual or Auto Timer modes.

**Drain**

The **DRAIN** button allows you to open the drain valve in the tank of the Cooler and empty the water from the tank. This will leave the tank clean and dry, and switch the Cooler off. The **DRAIN** button may also be used instead of **POWER** to switch the Cooler off.

If the Cooler has not been used for 3 days (can be changed to 3 Hours, see Fig. 10, page 10) the control will automatically drain the tank to maintain the cleanliness of the system.



**Water Manager**

Your Breezair "Horizon" Controller is fitted with the Water Manager system which automatically monitors the quality of the water in the Cooler and only adds fresh water when required.

Water Manager drains off the existing water in the Cooler to allow it to be replaced by fresh water only when needed. How often Water Manager will do this will depend on the quality of the water supply and the nature of the day and rate of evaporation.

In areas of poor water quality Water Manager will operate more frequently as it tries to keep the water in the system at an optimum level to maximise cooling effect and the life of the filter pads.

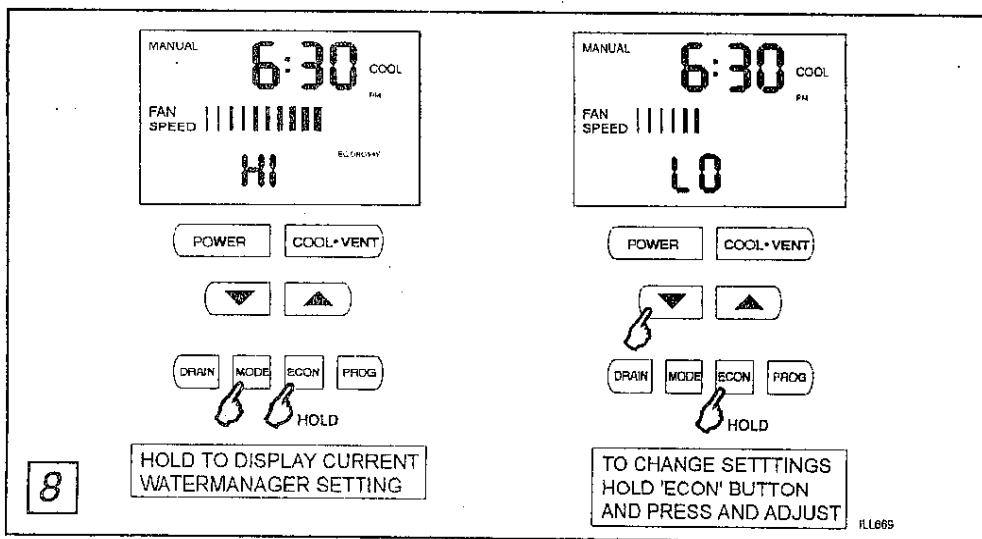
The "Horizon" Controller has a unique adjustment for Water Manager so it can be set specifically to either high or low salinity settings. The low salinity setting has been provided to allow using the Cooler's outlet water for watering lawns.

The high salinity setting is designed to operate the Cooler at the maximum safe salinity level to maintain normal working life. This also results in the minimum water usage by the Cooler.

**Note: Outlet water must not be used on a garden when using the high salinity setting.**

The current Water Manager setting is displayed by holding down the ECON button and pressing the MODE button. The setting can be changed by holding ECON and pressing the UP or DOWN buttons (see Fig. 8).

The factory default Water Manager setting is high. For areas operating with bore water, DIP switch F should be switched OFF (see Fig. 10). This will disable the salinity measuring circuit and simply drain water every 4 hours of operation. The display will show "4Hr" when the ECON and MODE buttons are used to show the Water Manager setting, and cannot be changed using the up and down buttons.





Your Breezair "Horizon" Controller is designed to allow pre-wetting the Cooler's filter pads before switching the fan on. This function (pre-cool) is enabled by switching DIP switch D on (see Fig. 10). Once pre-cool is enabled, the Cooler will operate as follows when switched on:

(1) If the tank is empty the drain system will be activated to fill the tank.

(2) After allowing 60 seconds for the tank to fill, the pump will be switched on to wet the filter pads.

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

(Meaning there will be a 4 minute delay before the fan starts and cooling begins).

#### During a Power Blackout

The Cooler will not operate, however the controller will still be active, sending signals to the Cooler at approximately 10 minute intervals. When power is restored, the Cooler will automatically resume to normal operation within 10 minutes.

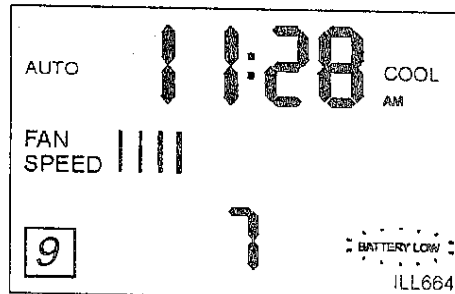
#### Cleaning

Exterior surfaces may be cleaned with a damp cloth containing water and a little mild household detergent. Avoid the use of abrasive cleaners, aerosol cleaners and solvents, as some of these may cause permanent damage.

#### Replacing Batteries

The controller requires three (3) AAA sized batteries to operate. The use of alkaline batteries is recommended for maximum life. Under normal conditions a set of batteries can provide 1,000 hours of operation when the Cooler is turned on. **Do not use rechargeable batteries as their voltage rating is too low for control operation.**

When the batteries are getting low on power a BATTERY LOW indicator will show on the display. This indicates that the batteries have less than 50 hours operating life remaining (see Fig. 9).



To change the batteries, remove the cover from the back of the controller, pull out the flat batteries and replace with new ones. Do not mix new batteries with old batteries, as this will cause the new batteries to go flat very quickly.

The control has 2 minutes of back-up power to retain time and memory setting while the batteries are being changed.

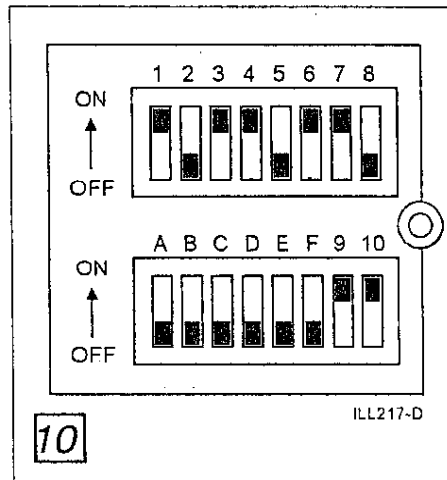
**Dip Switches**

There are 2 rows of DIP (dual in-line package) switches located under the battery cover of the controller (see Fig. 10).

Definition of dip switch positions is as follows:

1 - 10 ADDRESS CODE

- |   |  |
|---|--|
| A | RESERVED FOR LATER USE                 |
| B | OFF, 24 HOUR CLOCK                     |
| B | ON, 12 HOUR CLOCK                      |
| C | OFF, 1100W / 1500W MOTOR               |
| C | ON, 380 / 550 / 750W MOTOR             |
| D | OFF, NO PRECOOL                        |
| D | ON, PRECOOL                            |
| E | OFF, DRAIN 3 DAYS AFTER<br>POWER OFF   |
| E | ON, DRAIN 3 HOURS AFTER<br>POWER OFF   |
| F | OFF, DRAIN EVERY 4 HOURS               |
| F | ON, ACTIVATE WATER<br>SALINITY CIRCUIT |



SYMPTOM	POSSIBLE CAUSE	ACTION
Controller has no display	Batteries incorrectly fitted, batteries flat Control faulty	Refit batteries Replace the batteries Replace the control
Cooler does not respond to Controller	Flat batteries (BATTERY LOW indicator on ?) Signal interference.	Replace the batteries Try another location for the controller.
- No LED's on.	No power to box	Check fuse, isolating switch, etc Replace the control box.
- Heartbeat LED O.K. but data LED glows RED permanently.	Antenna not correctly connected.	Connect antenna. Replace antenna / wiring loom.
- Heartbeat RED for 1 second and Data light mostly on.	Very noisy environment. Poor connections.	Move antenna.
- Data light mostly off but flashes RED on handset key press, and Heart beat AMBER for 1 second.	Addresses do not match.	Change handset address to match that of the control lid.
- Heart beat LED permanently RED.	<b>Safety shutdown has occurred.</b>	<b>Contact Breezair immediately.</b>
Motor cuts out while the Cooler is operating but pump still running.	Motor overloaded. Minimum speed incorrect Internal error. Motor failure.	Check the motor current on high speed and adjust if necessary. Check minimum speed is not set too low. Check for RED Heartbeat. Replace the motor.
Fan does not start (other functions work).	Controller in "AUTO" or "AUTOTIMER" mode. (If there are no fan speed bars displayed, the fan will not come on.)	Switch to manual mode to check fan operation.
Pump does not start (other functions work).	Cooler in ventilation mode. Pump faulty.	Press COOL button, check Precool switch. Replace pump.

cont...

<b>SYMPTOM</b>	<b>POSSIBLE CAUSE</b>	<b>ACTION</b>
<i>Cooler switches off, when controller is on.</i>	<i>Operation in AUTO mode will shut the Cooler off if the room temperature drops below your set comfort level.</i>  <i>During continuous operation, with no change being made to the control settings, the controller sends a confirmation signal every 10 minutes. If the Cooler fails to receive three signals it will shut down. This may be caused by poor controller location blanketing the signal or by low / flat batteries.</i>	<i>Try another location for the controller.</i>  <i>Replace batteries</i>

**WARRANTY  
REGISTRATION  
LINE**

FREECALL

**1300 650 644**

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