

Climate Control "Evolution III" Wiring Instructions

Never use cable thicker than 1.5mm, use multi strand where possible as it will be more pliable.

Never force the wires back with the controller front. If need be fit a deeper back box!

Never run the temperature cable or the rain sensor cable within 150mm of any power or motor cable.

Never set the opening temperature lower than closing temperature.

Always separate the opening and closing temperatures by 3 degrees minimum.

Please refer to the accompanying photo wiring diagram, make all your hard wire connections first then move the toggle to connect the on board battery.

Leaving the battery activated with the power switched off will flatten the battery and cause loss of customers settings. This back up is for power cut emergencies only and it will not operate the vents under such circumstances.

F.A.Q.s.

My vents do not shut when it rains!

Is the controller in manual? The rain sensor function only works in "automatic".

Is the rain sensor clean and fitted in an exposed place?

If the vents have just opened in automatic mode there will be a delay of 30 seconds before the rain sensor becomes fully operational.

One or more of my windows opens further than the others!

Check that the motors are all set to the same chain extension.

I have a display but the controller does not operate!

The controller has a small battery for use in power cuts this battery will only illuminate the display and keep memory settings. If the power light is not illuminated you either have a blown fuse in the spur, a power cut or some other interruption in supply. If you have no display either the power interruption has been lengthy enough to flatten the battery.

I have no temperature display!

Check that you have a good connection at the controller terminal block.

Check that the wires have not been broken during installation.

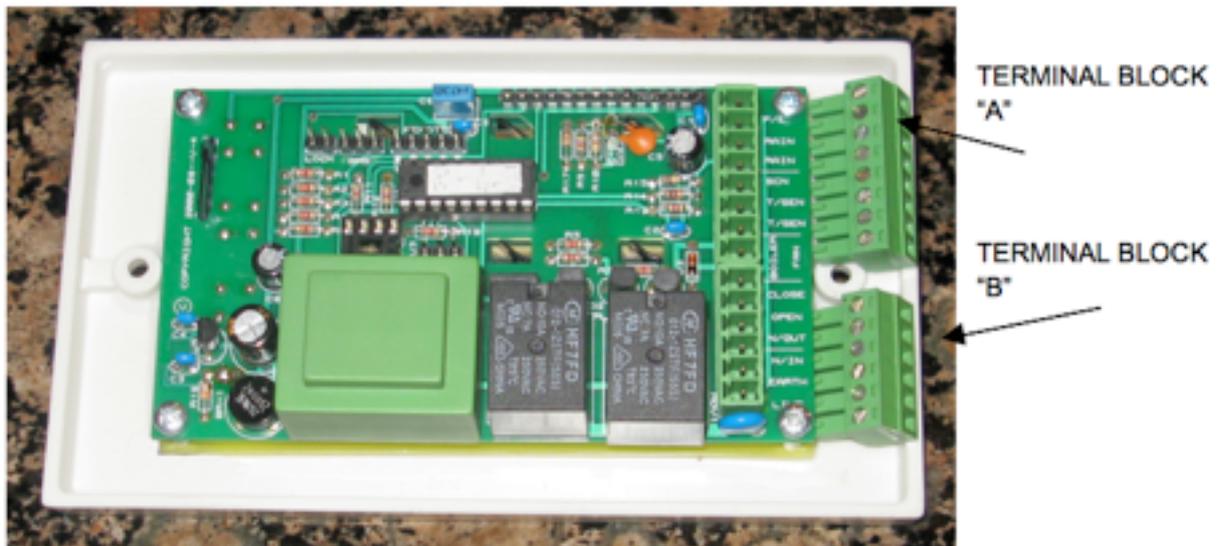
Installation

The installation of all electrical items must be undertaken by a qualified technician.

Mains power must be supplied via a switched fused spur fitted with a 5 amp fuse.

Do not use cable thicker than 1.5mm and multi strand if possible for flexibility.

This controller will fit into any standard 2gang surface or flush 35mm back box.



For ease of installation this controller is fitted with two terminal blocks where all the connections are made, one is marked "A" the other is marked "B". Please wire as follows.

Terminal block "A" starting from the letter "A" working down.

- 1/ earth for metal face plate
- 2/ yellow or blue wire from the rain sensor
- 3/ yellow or blue wire from the rain sensor
- 4/ rain sensor screen
- 5/ either temperature sensor wire
- 6/ either temperature sensor wire..... leave terminals 7 & 8 empty

Terminal block "B" starting from the letter "B" working down.

- 1/ close wire from motor
- 2/ open wire from motor
- 3/ neutral wire from motor
- 4/ neutral wire from fused spur
- 5/ earth wire from fused spur
- 6/ live wire from fused spur

To ensure you have correctly wired your terminal blocks check your connections with the legend marked on the circuit board next to the sockets.

Set-up instructions.

The front of the controller has a digital display which will give you information on the current status in LCD form there are also three square buttons which programme and operate the controller and finally a lamp to signal that power is present at the module.

With your wiring complete switch on the power at the fused spur...the power lamp should illuminate and a display appear on the LCD screen.

Before the controller can work you need to set the parameters by which the controller operates.

Firstly press the M/A button until "MANUAL" appears on the display.....now press the bottom button marked with the "arrow down" symbol this will fully close the motor.....next press and hold the top button "arrow up" and count the number of seconds it takes for the motor to reach fully open. For guidance a TOPPS ACK 42 motor takes 13 seconds to reach full 400mm stroke. A TOPPS ACK 30 takes 6 seconds to reach 180mm stroke and 11 seconds to reach 380mm stroke. Make a note of your own motors time from closed to open.

With the power still on press and hold the M/A or centre button.....still holding the button switch off the power at the fused spur.....count to 10 and switch the power back on.....only when the power is on and the display showing should you release the M/A button.

The controller has now entered the "set up" menu and the display now requires that you enter the time in seconds that your motor takes to open.....use the arrow up button to increase the figure and the arrow down button to decrease the figure. When you have set the correct time for your motor press the M/A button once more.

The display now shows the rain sensor sensitivity please leave this at "05" for normal use. Press the M/A button once more.

This new display relates only to special functions and should be bypassed. Press the M/A button once more.

The final display is only of interest should you have a conflict between the temperature shown on the controller and another device in the room. This display allows you to alter the controller to mimic the second device, to do so press the arrow up or down to alter the value shown. Press the M/A button again when you are finished.

You have now returned to the normal working display.

Operating instructions.

To switch from manual operation to automatic function simply press the M/A button once and the display will show the selected mode.

In manual simply press "arrow up" to open and "arrow down" to close....when you release the button the motor stops and the window remains in that position until altered. The rain sensor will not function in manual!

When "auto" is selected (press the M/A button to select) you will need to input the temperature at which you wish the room to be maintained. When you press either of the "arrow" buttons a temperature is displayed this is the current "desired room" temperature to raise it repeatedly press "arrow up" to lower it repeatedly press "arrow down". When the desired temperature is displayed just wait a few seconds and the controller will automatically accept the new value and the display will return to auto.

Your set up is complete.....obviously if you wish to change anything just go through the procedure again.

In automatic mode your controller will try to maintain your chosen room temperature by opening and closing the window/vent. It does this by only opening the motor $\frac{1}{4}$ of its travel at a time and depicts the motor position on the display. Several minutes will elapse between each opening of the motor so as to give the temperature time to stabilise also putting less strain on the motor itself as it does so.

If you require a quicker temperature drop, open the window/vent in manual but be aware that the rain sensor will not function in manual.

Display

Now you have set your controller for the first time the display will read "temp" and a number. This number will be the room temperature as recorded by the sensor.

Also the words "HI" & "LO" this means a setting is in the memory.

WARNING!

The rain sensor overrides all automatic functions and closes the windows when it detects rain. This function only operates with the controller switched to auto.

If there is a power cut the controller automatically defaults to "auto" when the power is reconnected.

this may not be desirable if you are away on holiday when this occurs.
switch off the controller before you leave!

Defaulting to manual would cause the windows to be permanently open in some instances.

The temperature readings shown and gathered by this controller are only for the purpose of its own function and may differ from other instruments used in the near vicinity.
Any differences between this controller and other devices are irrelevant.