Temperature and humidity are two of the most important environmental factors in your growroom / glasshouse. All plants have an optimum temperature and humidity at which they will grow at and minimum and maximum levels that they can survive at. Therefore the environment is very important to the health & growth rate of your plants. Plants basically uptake water and nutrients via the root system and combine some of the water with the nutrients and carbon dioxide to form carbohydrates for growth. The rest of the water is transpired into the surrounding air.

The rate of transpiration increases with temperature and decreases with humidity, therefore if your growroom is hot your plants will transpire a lot of water and the humidity in your growroom will rise. This causes your plants to transpire less which in turn will limit their growth rate and possibly even cause rot or mould problems if left unchecked.

The **Evolution Digital Proportional Control System** constantly monitors the temperature & humidity in the growing area and constantly adjusts extractor fan speed in order to optimize conditions for plant growth. Plants grown in optimized environments grow much much faster and bigger resulting in increased yields and decreased crop cycle times.

**EXTRACTOR FANS**

Many growers fail to recognize the importance of extractor fans. As a rule of thumb Grow room / Glass house extractor systems should be able to totally remove the air from the room in a 5 minute period. The fan will bring fresh CO₂ rich air into the growing area. If an extractor fan with insufficient flow rate is used then it may not be able reduce the daytime temperature sufficiently and the temperature may exceed acceptable levels for your crop. Minimum run speed ensures a constant supply of fresh air while saving energy and reducing fan noise. Maximum run speed can be set to limit fan noise ie: a 200mm fan run at half speed will move as much air as a 100mm fan run at full speed but the 200mm fan run at half speed will be much quieter. Always check the suitability of your fans for phase angle speed control with the manufacturer.

**HEATERS**

There are many types of heater which are suitable for use with the **Evolution Digital Controller**, generally they fall into two main categories: **Electrical** and **Gas**.

**Electrical heaters** which take a long time to warm up such as oil filled convection heaters which ideally should be avoided.

**Fan heaters are probably among the best electrical heaters for grow room use.**

The main advantages of electrical heaters are low initial cost, fast warm up times and ease of use. The main disadvantage of electrical heating is power consumption which can be undesirable especially when high powered horticultural lighting is in use.

**Gas heaters** which are controlled by an electrical solenoid valve are also very good. There main advantages are very fast warm up time, very low electricity consumption and large amounts of carbon dioxide generated as a byproduct of combustion. Their main disadvantages are large amounts of water vapor (humidity), relatively high initial cost and large heavy gas cylinders which need refilling on a regular basis.
Controller Installation

PRE-INSTALLATION
Careful consideration at this stage can save a lot of time and trouble later on! Common considerations would include Power Source, Cable Lengths, Sensor Positioning, Control-Unit Positioning, Water Sprayers / Spillages etc.

Example system setup

CONTROL UNIT
The Evolution Control Unit can be mounted inside or outside of the growing area. Mains voltages are present in the control unit and water must not under any circumstance be allowed to come into contact with the unit. Wall mounting is preferable using the mounting slots at the back of the unit.
The unit should always be plugged in via an approved RCD breaker.

SENSOR PROBE
The Evolution sensor probe should be suspended from a suitable hanging point, preferably around level with the plant tops in your growing area. The sensor probe is a sensitive piece of equipment and should be handled with care. Under no circumstance should the sensor probe be submersed in water.
Connections

**SAFETY CONSIDERATIONS**

This appliance must be installed by an approved electrician and must be connected via an approved RCD safety breaker.

```
A - Stat Out
**Stat Out (Thermostat Output)**
This output connects to the stat input (thermostat input) of the Evolution Co2 controller if this controller is working together with the Co2 controller.
**Note this output is only used in conjunction with the Evolution CO2 Controller.** Wire: 0.5mm - 0.75mm

B - Heater Out
**Htr Out (Heater Output)**
This output can control Heater loads up to a maximum of 3Kw. Wire: 1.25mm - 1.5mm

C - Fan 2
**Fan 2**
This output is for the Air OUT fans. Multiple fans can be used with a maximum combined load of 6 Amps. Wire: 0.75mm

D - Fan 1
**Fan 1**
This output is for the Air IN fans. Multiple fans can be used with a maximum combined load of 6Amps. Wire: 0.75mm

E - Power Input
**Power Input**
This is the main power supply to the controller and should have a minimum 1.25mm cable with a 13 Amp supply or higher. Wire: 1.25mm - 1.5mm

F - Sensor Input
**Sensor**
The sensor is supplied with a 5M cable and plugs into the small telephone type socket. Wire: Included with temperature sensor.
```

neutral - Blue wire
earth - green & yellow wire
live - Brown wire
Setup

Once the controller is connected and mounted in a suitable position power should be connected and the controller should display the current Temperature & Humidity. You can now use the program keys to set the required parameters.
**HYSTERESIS** is the temperature at which it switches off again - This is the “hysteresis”. Without this hysteresis - your FAN AND HEATER would keep switching on and off every few seconds.

**Button Functions and General controller displays**

- **Left LED display**
  Displays live Temperature reading from the sensor probe.
  This display is multi functional when programming user settings.

- **Right LED display**
  Displays live Humidity reading from the sensor probe.
  This display is multi functional when programming user settings.

- **FAN LED light**
  The blue Fan light flashes to show that your Fans are currently running, the faster the flashing indicates a higher speed and constantly lit light indicates 100% fan speed, slower blinking indicates slower or idle fan speed.

- **Heater LED light**
  The Red Heater light indicates that the Heater is now active.

- **Power LED light**
  The Green Power light indicates that the Evolution Digital Fan Speed Controller is powered up from the mains supply.

---

**Min/Max Button**

Function: To swap between min and max fan speed settings.

*note: only works after you have pressed the FAN button*

**FAN Button**

Press to set the minimum and maximum run speed of your fans.
Press the min / max button to switch between min and max fan run speed settings.

**HTR/DOWN Button**

Enters HEATER temperature setting and also doubles as the DOWN button.
Hold this button down for 5 seconds to adjust HEATER HYSTERESIS.

**ADJUSTABLE HYSTERESIS:**

**HYSTERESIS** is the difference between the temperature at which the heater switches on - and the temperature at which it switches off again - This is the “hysteresis”. Without this hysteresis - your FAN AND HEATER would keep switching on and off every few seconds.

**TEMP/UP Button**

Enters the **DESIRED ROOM TEMPERATURE SETTING** and also doubles as the UP button.

**RH Button**

Enters the **DESIRED ROOM HUMIDITY SETTING**.
Setup

Setting the Desired Temperature

1. Press the TEMP button ONCE, the left display will show the Current Temperature Setting.
2. Press the Up (Temp) and DOWN (Htr) buttons to set the temperature.
3. After 5 seconds the display will flash and the new setting will be stored.

Once you have set your desired temperature simply wait 5 seconds the LED will flash to indicate that it has stored the new settings.

(once stored the display will revert back to live reading of the temperature and humidity)
Setup

Setting the Desired Humidity percentage

1. Press the R/h button ONCE, the left display will show the Current Humidity Setting.
2. Press the Up (Temp) and DOWN (Htr) buttons to set the Humidity.
3. After 5 seconds the display will flash and the new setting will be stored.

Press the R/h button to enter humidity setting mode.

You can now adjust the humidity using the htr button to lower and temp button to raise the humidity setting you need in whole percentage increments.

Once you have set your desired humidity simply wait 5 seconds the LED will flash to indicate that it has stored the new settings.

(once stored the display will revert back to live reading of the temperature and humidity)
**Setup**

### Setting the Desired Heater temperature

3

Press the **Htr** button **ONCE**, the left display will show the **Current Heater Setting**. Press the **Up (Temp)** and **DOWN (Htr)** buttons to set the Heater. After 5 seconds the display will **flash** and the new setting will be **stored**.

1

2

3

---

Once you have set your desired humidity simply wait 5 seconds the LED will flash to indicate that it has stored the new settings.

(once stored the display will revert back to live reading of the temperature and humidity)
Setup

Setting the Minimum and Maximum fan speeds

Press the FAN button ONCE,
The left display will show the **Current Minimum Run Speed** setting in percent.
Use the **Up (Temp) and DOWN (Htr)** Buttons to set the **Minimum Speed**.

Note:
After 5 seconds of inactivity from pressing any buttons the display will flash and the new settings will be automatically **stored**.

Once you have your desired Minimum fan speed you can press the **Min/Max** button to swap over and start to adjust your Maximum fan speed setting.

1. Press the **Fan** button to enter **minimum fan speed** setting percentage mode

2. You can now adjust the **minimum speed** using the **htr** button to lower and **temp** button to raise the fan speed setting you need in whole percentage increments.

3. Press the **Min/Max** button to swap over to the **maximum fan speed** setting percentage mode
**Setup**

### Setting the Minimum and Maximum fan speeds

Once you have pressed the min/max button the right display will show the **Current Maximum Run Speed** setting in percent. Use the **Up (Temp)** and **DOWN (Htr)** Buttons to set the Maximum **Speed**.

**Note:**

After 5 seconds of inactivity from using any buttons the display will flash and the new settings will be automatically **stored**.

The Blue Fan Light will flash slowly when the fan is set slow and flash faster until maximum speed where it will be constantly on.

*When Set, your controller will run the fans at the minimum speed required to maintain the set levels of temperature and humidity resulting in quieter fan operation, reduced running costs and optimum growing conditions.*

---

**4**

![Image 4](image4.png)

You are now in **maximum fan speed** setting percentage mode.

**5**

![Image 5](image5.png)

You can now adjust the maximum speed using the **htr** button to lower and **temp** button to raise the fan speed setting you need in whole percentage increments.

**6**

![Image 6](image6.png)

Once you have set your desired humidity simply wait 5 seconds the LED will flash to indicate that it has stored the new settings.

(Once stored the display will revert back to live reading of the temperature and humidity)
Advanced settings section

- temperature hysteresis page 12
- humidity hysteresis page 13
- fan/heater mode page 14
- fan output mode page 15
- phase angle page 16
- humidity ignore page 17
- temperature calibration page 18
- humidity calibration page 19
- led lights on/off page 20
- restore default settings page 21
- power up test sequence page 22
- min/max mode page 23
Advanced Settings & Calibration modes

TEMPERATURE HYSTERESIS

Press and hold Temp button for 4 seconds enables adjustment of temperature hysteresis. Adjustment is 0.2 to 5.0 degrees, initial setting is 0.2 degrees.

1. Hold down the temp button for 4 seconds to enter hysteresis mode.

2. You can now adjust the hysteresis using the htr button to lower and temp button to raise the hysteresis setting.

3. Once you have set your desired hysteresis point simply wait 5 seconds the LED will flash to indicate that it has stored the new settings.
Press and hold R/H button for 4 seconds enables adjustment of humidity hysteresis. Adjustment is 0.2 to 5.0%, initial setting is 0.2%

1. Hold down the R/h button for 4 seconds to enter hysteresis mode.

2. You can now adjust the hysteresis using the htr button to lower and temp button to raise the hysteresis setting.

3. Once you have set your desired hysteresis point simply wait 5 seconds the LED will flash to indicate that it has stored the new settings.
Advanced Settings & Calibration modes

**FAN / HEATER Mode**

0P0 = When heater is on fans are off/min.  
0P1 = When heater is on fans are on.

**Please note in normal use the controller should be set to OP0.**

1. Make sure the Evolution Fan speed controller is **OFF** before you start (no electrical power)

Press and hold “**htr**” button down (keep the **htr** button held down)
Then plug in and turn the power on to power up the Evolution Fan Speed controller.

2. Once powered up, the controller will display **--- --- ---** you may now release the “**htr**” button at this point.

3. The display will flash up the current chip code for example: E1.9 PHA then shortly afterward the heater mode will flash up briefly such as: HTR OPO or HTR OP1

To toggle heater modes simply re-power up the unit with the same procedure and it will switch over to the opposite mode of either OPO or OP1 depending on the last mode it was in.

---

**Please note in normal use the controller should be set to OP0.**

1. Make sure the Evolution Fan speed controller is **OFF** before you start (no electrical power)

Press and hold “**htr**” button down (keep the **htr** button held down)
Then plug in and turn the power on to power up the Evolution Fan Speed controller.

2. Once powered up, the controller will display **--- --- ---** you may now release the “**htr**” button at this point.

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To toggle heater modes simply re-power up the unit with the same procedure and it will switch over to the opposite mode of either OPO or OP1 depending on the last mode it was in.
Advanced Settings & Calibration modes

FAN OUTPUT Mode

Default is 'PHA' mode (PHAse angle control).

Phase angle mode the controller will control the speed of the fans and you can set a % speed for them in min and max.

Contactor mode the fans will just switch either on or off (0% and 100%).

1. Make sure the Evolution Fan speed controller is OFF before you start (no electrical power)

Press and hold Fan and Min/Max buttons down (keep them held down)
Then plug in and turn the power on to power up the Evolution Fan Speed controller.

2. Once powered up, the controller will display - - - - - you may now release the Fan and Min/Max buttons at this point.

3. The display will flash up E22 in the left and the current setting of either CON or PHA in the right LED window before reverting to live readings.

To revert the current setting simply repeat this procedure, each time it will swap from one mode to the other.
Phase Angle Fan Speed Control

Phase Angle control uses a low frequency switch to chop an AC sine wave. The firing angle of the switch is varied (25% - 100%). The average voltage is proportional to the area under the sine wave. Thus, the average voltage is the integral from the firing angle to the zero crossing, the cosine of the firing angle.

Phase Angle control provides an excellent method to control the average voltage of an AC source. However, the low frequency AC waveform presented to the motor will create some torque ripple and acoustic noise, to keep this to a minimum we keep the range of control between 25% and 100%.

*note:* All universal motors operated from an AC source will have some torque ripple.
Advanced Settings & Calibration modes

Humidity Ignore Mode

This mode can be useful in winter or wet season if external humidity is above desired and temperature is below.

1. Make sure the Evolution Fan speed controller is OFF before you start (no electrical power)

Press and hold Min/Max and R/H buttons down (keep them held down)
Then plug in and turn the power on to power up the Evolution Fan Speed controller.

2. Once powered up, the controller will display - - - - - you may now release the Min/Max and R/H buttons at this point.

3. The Humidity display on the right LED window will now constantly flash on/off every second or so to show that humidity control has now been disabled and will only show live readings and will no longer control the fans.

To revert the current setting simply repeat this procedure, each time it will swap from one mode to the other

Humidity LED will flash every second to show it is now set to “humidity ignore” mode.
1. Make sure the Evolution Fan speed controller is OFF before you start (no electrical power)

Press and hold Temp button down (keep it held down)
Then plug in and turn the power on to power up the Evolution Fan Speed controller.

2. Once powered up the controller will display - - - - - - release the Temp button at this point

3. The display will show - - - in the right LED and the current temperature reading in the left LED. Using the up and down buttons (Htr and Temp) you can calibrate the temperature by lowering or raising the setting.

4. To store the new setting simply press the min/max button.

5. To exit advanced mode power simply down and then power back up the controller again to resume the normal mode of the controller.
Advanced Settings & Calibration modes

Humidity Calibration Mode

1. Make sure the Evolution Fan speed controller is OFF before you start (no electrical power)

Press and hold R/h button down (keep it held down)
Then plug in and turn the power on to power up the Evolution Fan Speed controller

2. Once powered up the controller will display - - - - - release the “R/h” button at this point

3. The display will show - - - in the left LED and the current humidity reading in the right LED. Using the up and down buttons (htr and temp) you can calibrate the humidity by lowering or raising the setting.

4. To store the new setting simply press the min/max button.

5. To exit advanced mode power simply down and then power back up the controller again to resume the normal mode of the controller.
Advanced Settings & Calibration modes

LED lights OFF/On (Fan Heater)

You may wish turn off the Red and Blue LED lights for the Heater/Fan on the controller, if your controller is within the grow room so that the plants are not being illuminated by these Red and Blue coloured LED’s.

1. Make sure the Evolution Fan speed controller is OFF before you start (no electrical power)

Press and hold Fan and R/H buttons down (keep them held down)
Then plug in and turn the power on to power up the Evolution Fan Speed controller

2. Once powered up and displaying - - - - - - you may release the Fan and R/h buttons.

3. The lights on the controller for the heater (red) and Fan (blue) will be turned off. To turn them back on simply repeat this procedure.

Fan and Heater Lights will be set to OFF if you require them back ON simply repeat this procedure.
You may wish to restore the unit to default settings as listed in the back of the user guide:

1. Make sure the Evolution Fan speed controller is **OFF** before you start (no electrical power)

Press and hold **Min/Max and Temp** buttons down (keep them held down)

Then plug in and turn the power **on** to power up the Evolution Fan Speed controller

2. Once powered up and displaying **--- ---** you may release the **Min/Max** and **Temp** buttons.

3. This will restore factory defaults as listed in the back of this user guide.

Factory settings for the controller are now restored.
Power Up Test Sequence - LED test and chip revision

whenever you power up the controller it will run through it’s display test sequence before displaying the current temperature and humidity

step 1 to 8 is to test the LED display to make sure all segments illuminate.
step 9 shows the chip revision number in the left display and the fan mode in the right display PHA or CON
step 10 shows that the htr function is enabled in the left window, in the right window the fan mode: OPO - heater on fans off or OP1 heater on fans on.
Advanced Settings: Min/Max mode

1. Press and hold down the Min/Max button for 5 seconds to enter min/max advanced mode.

2. The display will show as above to indicate you have now entered Min/Max advanced mode.

You can now release the min/max button.

MIN/MAX MODE MIN/MAX Button Advanced functions:

To enter min max mode:
Press and hold the min/max button down for 5 seconds, both displays will go blank to confirm. Release the min/max button.

1. FIRST PRESS
Displays the actual room temperature on the left display and the current run speed of the fans on the right display in %.

2. SECOND PRESS
Displays speed of the fans on the left display in %. The actual room Humidity is displayed on the right.

3. THIRD PRESS
Displays the MINIMUM temperature & humidity since last reset.

4. FOURTH PRESS
Displays the MAXIMUM temperature & humidity since last reset.

5. FIFTH PRESS
Displays firmware version and Fan Output Mode (PHA or CON)

note SIXTH PRESS
Displays to show actual temperature and humidity levels... but advanced mode is still active.

To Erase previous readings of min/max levels for temperature and humidity
When in Min/Max mode: Press and hold down the min/max button for 5 seconds the screen will display once the recent history is erased you will see current live readings from the controller for temperature and humidity, new Min/Max readings will now be stored during use. To exit min/max mode simply power down the unit then reboot the Evolution Digital Fan Speed Controller.
Default settings and example set-up.
# Default Settings and Specifications

## Settings

<table>
<thead>
<tr>
<th>Controller Setting</th>
<th>Default Setting</th>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Min Fan run speed</td>
<td>26%</td>
<td>0/25-100%</td>
</tr>
<tr>
<td>Max Fan run speed</td>
<td>80%</td>
<td>0-100%</td>
</tr>
<tr>
<td>Heater</td>
<td>11 C</td>
<td>0 C - 25 C</td>
</tr>
<tr>
<td>Temperature</td>
<td>26 C</td>
<td>10 C - 35 C</td>
</tr>
<tr>
<td>Humidity</td>
<td>60%</td>
<td>40% - 80%</td>
</tr>
<tr>
<td>Fan/Heater mode</td>
<td>0P0</td>
<td>0P0 or 0P1</td>
</tr>
<tr>
<td>Fan Output mode</td>
<td>PHA</td>
<td>PHA or CON</td>
</tr>
<tr>
<td>Heater Hysteresis</td>
<td>3.0 C</td>
<td>1.0 C to 5.0C</td>
</tr>
<tr>
<td>Temp Hysteresis</td>
<td>0.2 C</td>
<td>0.2 C to 5 C</td>
</tr>
<tr>
<td>Humidity Hysteresis</td>
<td>0.2 %</td>
<td>0.2% to 5%</td>
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</table>

## Specifications

<table>
<thead>
<tr>
<th></th>
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<th>220 - 240 Vac Single Phase</th>
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<tbody>
<tr>
<td>Power Supply</td>
<td>20 Watts Max</td>
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</tr>
<tr>
<td>Maximum Total Fan Load</td>
<td>1.5 Kw</td>
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<tr>
<td>Maximum Total Load</td>
<td>3.0 Kw</td>
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<tr>
<td>Temperature Probe cable length</td>
<td>5m</td>
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<tr>
<td>Fan IN</td>
<td>6 Amps</td>
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</tr>
<tr>
<td>Fan OUT</td>
<td>6 Amps</td>
<td></td>
</tr>
<tr>
<td>Heater</td>
<td>3Kw</td>
<td></td>
</tr>
</tbody>
</table>
**Diagnoses**

**Diagnostic Advice and Service/Error Codes**

**Unplugged Temperature & Humidity Sensor or failed/broken Sensor:**
Will display the following in the LED display:

After the LED test sequence, chip revision number and PHA and OPO settings are displayed the main screen will show the following for a short period of time (approximately 15 seconds)

99.9 in the left window (temperature) and 0.0 right window (humidity)

The display will then change to the following and stay on this display:
- - - - and will continue to display this.

**Error Code 1:**
Error 1 is a corruption of the internal memory.

**Error Code 2:**
Error 2 is missed mains zero-crossing pulses.

This could be low mains voltage or a component error when the controller was assembled.

If the user has a few kW of heaters on an extension lead then and this also powers the Evolution Fan Speed Controller on the same extension lead.
In this scenario when the heater turns on this could drop the mains voltage sufficient to cause this error.
For more information on using the Evolution Digital Fan Speed Controller with the Evolution Carbon Dioxide Controller see our user guide for the Evolution Carbon Dioxide Controller:

Section C which starts on page 16 of the Evolution Carbon Dioxide Controller User Guide (pdf available on our website)

Please note you will find the latest revision of any of our User Guides on the Ecotechnics website located in the downloads area below:

http://www.ecotechnics.co.uk/downloads.htm
--- ALWAYS OBSERVE THE FOLLOWING ----

- When connecting / disconnecting all cables, grasp the connector itself—never pull on the cable. This way you will avoid causing shorts, or damage to the cable’s internal elements.

- Do not excessively twist or bend the power cord, or place heavy objects on it. Doing so can damage the cord, producing severed elements and short circuits. Damaged cords are fire and shock hazards!

- In households with small children, an adult should provide supervision which is essential for the safe operation of any electrical appliances in the home. All cords and cables should be placed so they are out of the reach of children.

- Try to prevent cords and cables from becoming entangled.

- Before moving the unit, disconnect the power cable from the mains supply and any cords coming from external devices.

- Never handle an AC adaptor or electrical plugs with wet hands when plugging into, or unplugging from, an outlet or this unit.

- Before cleaning the unit, turn off the power and unplug the AC adaptor from the outlet.

- Do not force the unit’s power-supply cord to share an outlet with an unreasonable number of other devices.

- Be especially careful when using extension cords—the total power used by all devices you have connected to the extension cord’s outlet must never exceed the power rating (watts/amperes) for the extension cord. Excessive loads can cause the insulation on the cord to heat up and eventually melt through.

- Protect the unit from strong impact. (Do not drop it!)

- Before using the unit in a foreign country, consult with your retailer or an authorized distributor.

- Whenever you suspect the possibility of lightning in your area, disconnect the unit from the power outlet.

- Do not attempt to repair the unit, or replace parts within it. Refer all servicing to your retailer or an authorized distributor.

- When moved from one location to another where the temperature and/or humidity is very different, water droplets (condensation) may form inside the unit. Damage or malfunction may result if you attempt to use the unit in this condition. Therefore, before using the unit, you must allow it to stand for several hours, until the condensation has completely evaporated.
SAFETY CONSIDERATIONS

- Always make sure the unit is unplugged before attempting to connect the fan and/or heater to the unit.
- Always check that all cables are correctly and securely connected and that the cover is securely screwed on before plugging the unit in and turning the power on.
- Always Remember that Electricity and Water is an Extremely Dangerous Combination. Electricity can be fatal especially in the presence of water.
- It is strongly recommended that any electrical equipment used in the growing environment is mounted above ground level, on a shelf or if possible wall mounted so that in the event of water spillage or flooding the two remain separate.

This appliance must be installed by an approved electrician and must be connected via an approved RCD safety breaker.

POWER CONSUMPTION  15 WATTS MAX
SUPPLY VOLTAGE  230-240V AC
TOTAL LOAD NOT TO EXCEED 3.0 Kw

ECOTECHNICS PRODUCT GUARANTEE

Thank you for choosing an Ecotechnics product for use in your growroom. As leading manufacturers of horticultural equipment and accessories we are committed to providing a range of innovative products to enhance your garden. Our commitment to quality is second to none, however if you do experience any problem all our products are covered with a full 3 year parts & labour guarantee and should be returned to the retailer along with the original purchase receipt.

Ecotechnics UK Ltd is not liable for labour costs involved in the installation or removal of the product, lost profits, incidental or consequential loss, injury to property or persons or any other consequential loss however caused.

Shop / Dealer

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Purchase Date

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Serial Number

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