

# CoolShade Reflector

## Ecotechnics CoolShade REFLECTOR

Congratulations on purchasing the Coolshade Reflector.

Before you switch on any part of the system, please make sure you get the most from the reflector by taking a minute to read this important information.

### Covering Coolshade models: 150mm x 1000mm

#### Safety Advice

---- ALWAYS OBSERVE THE FOLLOWING ----

Cooltube Reflectors **MUST ALWAYS** be used in conjunction with air extraction using a suitable Fan and air ducting system.

If there is not sufficient cooled air flowing through the Cooltube it can overheat the reflector and lamps plus other parts of the light and may fail due to excessive heat.

As a guide, a minimum air flowrate of 200m<sup>3</sup> per hour is required for each Coolshade Reflector.

The Lamp will get Hot during use. Leave it to cool before touching it and never touch it while it is switched on!

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.

#### Installation

If the reflector has a protective film attached to it, remove it. Mount the reflector in a suitable position. Holding the base of the lamps (if you hold them by the glass tubes they may shatter!), screw them into the reflector's sockets firmly to ensure a good electrical contact.

When the reflector is safely mounted and the lamps are installed correctly, the unit can be switched on.

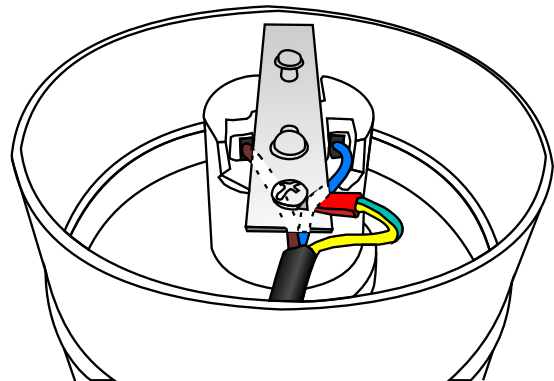
**Always use an Air Extraction System with Coolshade Lighting Systems.**



#### Assembly notes for: 150mm x 1000mm model

The 150mm x 1000mm Coolshade Reflector does not have either an internal reflector or external reflector.

#### Cooltube wiring guide



#### Wiring Illustration

To wire up the 1000mm Coolshade you will need to remove the lamp holder to access the terminal screws

1mm wire will be required and will also need heat resistant sheaths adding over the wires as the Cooltube can become quite hot when using HID lamps.

The Earth terminal must use the provided Crimp connector.

Please make sure you fix each connection firmly and also use the A/C lead clamp on the metal collar to fix the mains lead firmly.

#### Troubleshooting

If the Lighting system fails to start:

1. Check your ballast to make sure that is operating correctly
2. Check the bulb to make sure it is working correctly and has not blown or is damaged for example
3. Check your electric supply, plugs and sockets.
4. Switch off your lighting system, wait for the lamps to cool and then remove them and screw them back in again firmly. Switch the unit back on and if the lamps still fail, contact your supplier.

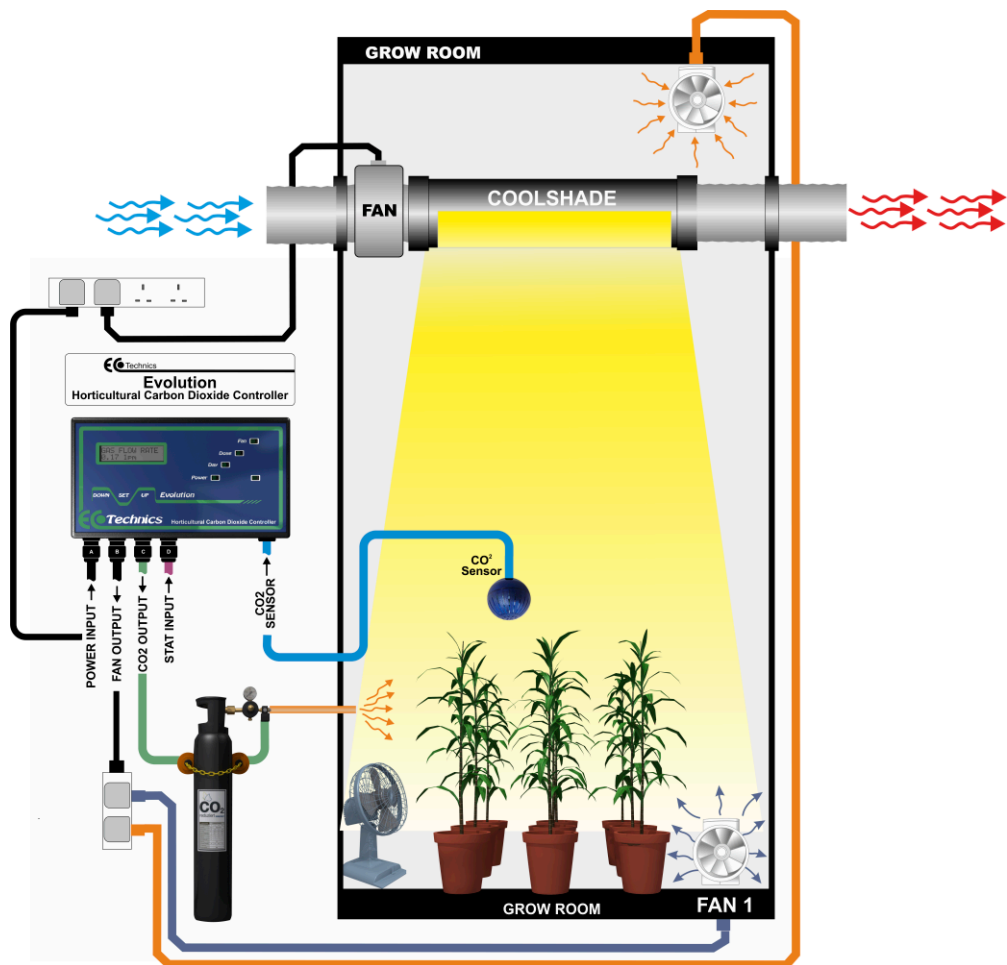
**Note:**

**In most cases a lighting failure is due to a defective ballast or bulb.**

#### Guarantee

In the unlikely event that you find fault with this product, please contact your supplier. All Ecotechnics reflectors carry a one year guarantee (terms & conditions apply), excluding faulty fuses and tampering.

# Evolution Digital Fan Speed Controller (CoolShade)



# Evolution Carbon Dioxide and Fan Speed Controllers (CoolShade)

