

Introduction

The infresco-T 6kW is part of a family of controllers designed to provide energy saving when used with quartz infrared halogen lamps or other heating and lighting products. The 'T' model switches the lamps on for a predetermined time period of between 1 and 30 minutes. The microcontroller-based unit incorporates zero-voltage switching and a soft-start function to eliminate the lamps' initial high inrush current – potentially increasing lamp life by as much as 30%. Installation of the unit is simple and once installed is relatively maintenance-free.

Product Features

- Energy saving – provides heat for a pre-determined time period.
- Extends lamp Life.
- Control up to 4 x 1500W lamps.
- Soft-start/zero-voltage switch-off.
- Low-cost.
- Easy to install.

Applications: patio areas, smoking shelters, restaurants, warehouses, workshops and garden Lighting.

Installation

Important: Read carefully the following information before installing the unit.

The Infresco-T 6kW should be fixed securely using the four mounting holes accessible from the front of the unit. Remove the lid to access the mounting holes. To ease installation, a mounting template is provided opposite to locate the 4 mounting hole centres.

IMPORTANT! The unit must be orientated with the cable glands facing down.

Technical Specification

Supply Voltage	230VAC +/- 10% 50 Hz
Switching Capacity	6kW Max.
Lamp On-Time	1 to 30 minutes
Current Consumption (control circuit)	20mA
Terminals	6.0mm ² Rising Clamp
Operating Temperature	-20 to 40 °C
Protection Rating	IP65
Gland Diameter	Max Cable Entry 2.5mm ²
Enclosure Dimensions (WxLxH)	130x130x75 (mm)



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User & Installation Manual For

Infresco-T 6.0kW



**RoHS Compliant
Directive
2002/95/EC**

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Wiring

It is recommended that installation and maintenance of this equipment should be done with reference to the current edition of the I.E.E. wiring regulations (BS7671) by suitably qualified/trained personnel. These regulations contain important requirements regarding safety of electrical equipment (for International Standards refer to I.E.C/ directive IEC950).

Warning! Isolate the mains supply before commencing any work on the unit. Failure to do so could result in serious injury or fatality.

The unit is fitted with three cable glands. Only one cable should be fitted per gland to prevent degrading the unit's IP rating. To connect 4 lamps, refer to the 'Wiring Diagram' on the next page for an alternative configuration using two junction boxes.

The mains supply connects to the terminal block marked 'LINE'. Connect the supply **LIVE** to the 'L' terminal, **NEUTRAL** to the 'N' terminal and **EARTH** to the 'E' terminal.

The lamps connect to the terminal block marked 'LOAD'. Connect the load **LIVE** to the 'L' terminal, **NEUTRAL** to the 'N' terminal and **EARTH** to the 'E' terminal.

Important! Ensure all earth wires are connected to maintain earth continuity to the lamp fittings.

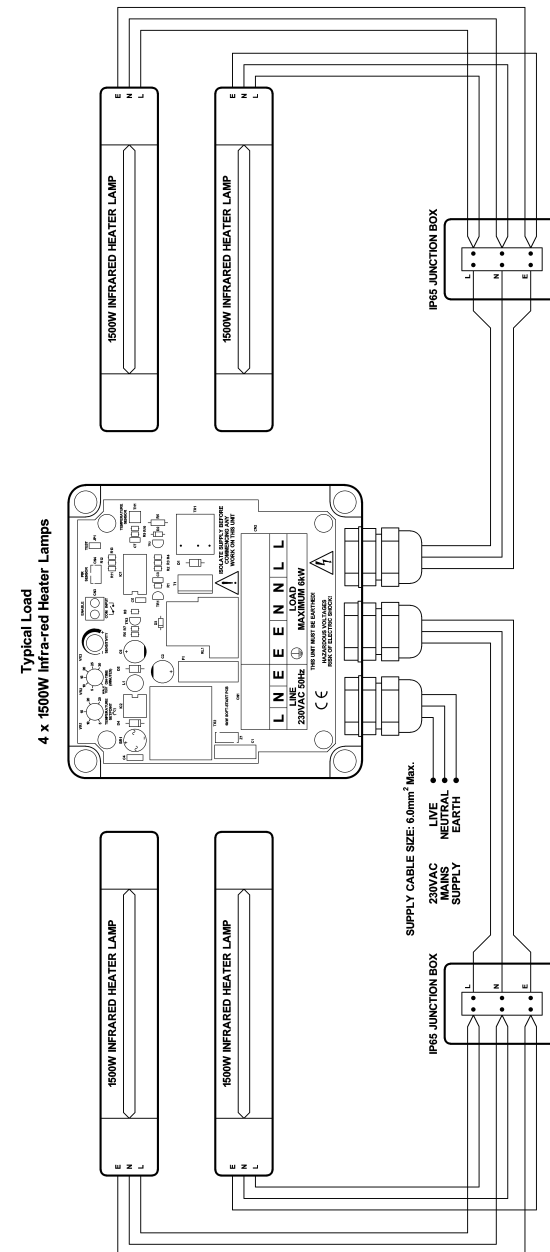
Check all wiring and make sure the cable glands are tightened.

Commissioning

Set the on-time preset (VR2) to a time period of between 1 and 30 minutes (see 'Mounting Template' to locate VR2). Replace the lid and switch on the mains supply to the unit.

Press the push-button on the front of the unit to switch the lamps on.

Wiring Diagram



Troubleshooting

Warning! Isolate the mains supply before commencing any work on the unit. Failure to do so could result in serious injury or fatality.

Problem: Lamps do not switch on.

Solution:

- Check the mains supply to the unit is switched on.
- Check the LINE and LOAD wiring connections to the unit and lamps. Fit a lamp that you know is in working order.
- Contact your supplier.

Problem: Lamps do not switch off.

Solution:

- Check the on-time preset (VR2) is set correctly.
- Contact your supplier.

Mounting Template

