INTRODUCTION

The Infresco has been designed specifically to work with Infra Red Heaters, with a rating of 4kW it will allow you to control a variety of heating and lighting solution.

The Infresco has a 1 to 10 step setting allowing you to find the optimum comfort setting in you specific area. With energy saving a major factor in the design brief, once the Infresco is switched on it will automatically manage the heating system. With a built in temperature sensor only allowing the unit to switch on when required and a PIR that will detects a requirement for the heater to switch on only when needed. An optional remote control allows for the unit to be fitted out of the way so safety is paramount. The Infresco has a built in soft start function which will add up to an additional 30% life to your heater lamp.

APPLICATIONS

Any application were high inrush current is an issue or control is required. Typical use is for Infra Red Heating lamps, Garden lighting

FEATURES

Soft Start – up to 30% extended life of Lamp
Variable Control – Ability to find comfort level
Simple Installation – Ability to plug directly in 13A Plug with up to 3kW load
Energy Saving – Automated system. (Only heat when required)
Temperature Monitoring – If ambient temperature is above preset the Infresco unit remains switched off

SAFETY FIRST

Please read these instructions before installing and operating this product. (See warning for additional information).

Installation

The ideal site for the PIR to be mounted is approximately 2.5 + Meters of the floor. Ceiling mounting is preferred but not essential
The PIR must not be mounted.

- Directly in line of the lamps output
- Highly reflective surfaces
- Radiators or other thermostatically controlled heaters
- Open door ways with people walking past

Commissioning

NOTE: On switch on the PIR takes 60 seconds to set before detection takes place
NOTE: The PIR continues to monitor the area and will reset to the set time every time it detects movement.
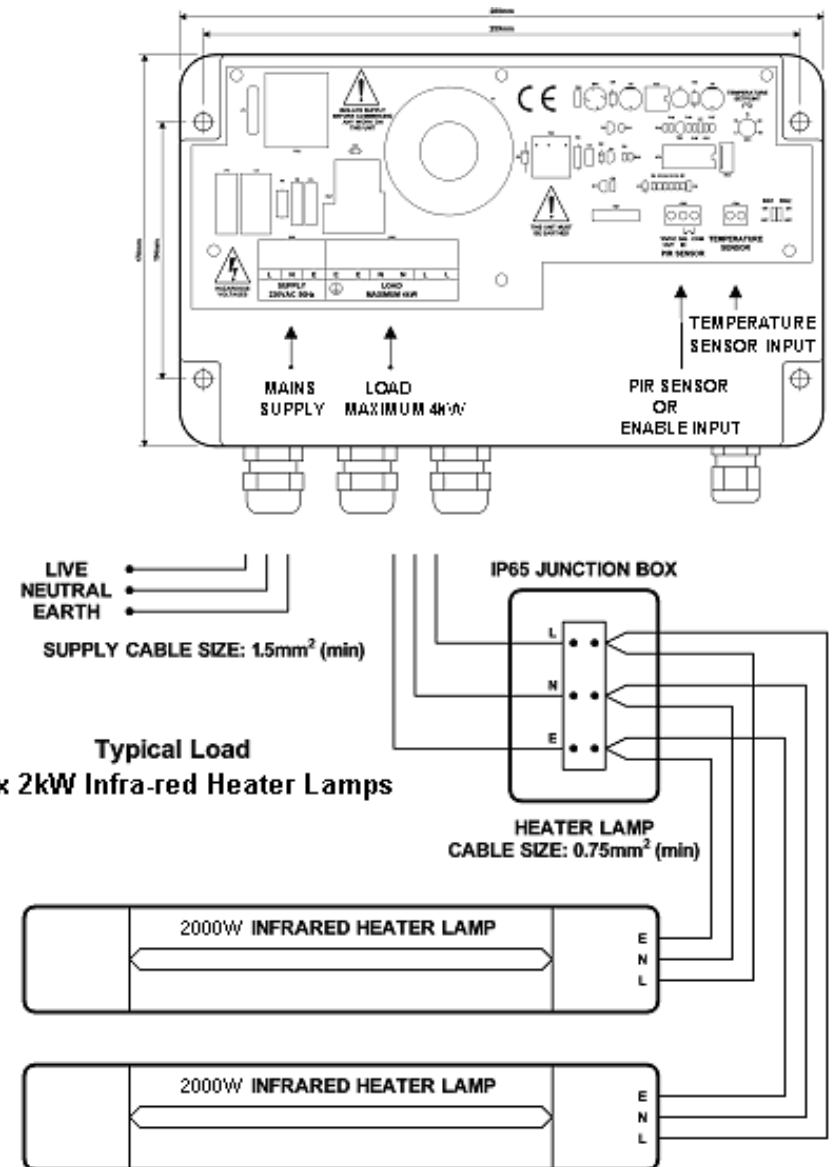Before testing ensure the wiring is correct. The temperature trip point has already been preset at the factory. The timer is preset to 5 minutes.
The expected detection area can now be "walked tested" using the diagram shown in mind. The area should be crossed in various directions to ensure coverage is as expected.

Display Features

Display shows 't'	The Infresco is turned OFF as the ambient temperature is above the trip level set by TEMP. SET.
Display shows 'F'	The Infresco is set to FULL output.
Display decimal point pulses	The PIR input is waiting to be enabled i.e. no movement.
Display decimal point fully on	The Infresco is in Standby mode pressing the remote control POWER button will toggle the power ON and OFF.

You can check the remote control is transmitting by observing the decimal point flashing rapidly.

INSTALLATION CIRCUIT

TEMPERATURE SENSOR INPUT

PIR SENSOR OR ENABLE INPUT

MAINS SUPPLY

LOAD MAXIMUM 4kW

LIVE
NEUTRAL
EARTH

SUPPLY CABLE SIZE: 1.5mm² (min)

IP65 JUNCTION BOX

L
N
E

Typical Load
2 x 2kW Infra-red Heater Lamps

HEATER LAMP
CABLE SIZE: 0.75mm² (min)

2000W **INFRARED HEATER LAMP**   E N L

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Specifications

Infresco Main Unit

Mains Voltage	230Vac +/- 10% 50 Hz
Max load at 20℃ ambient	4 kW
Power Consumption	50mA
PIR Set Time Period	5 Minutes
Temperature Set point	5℃ to 25℃
Factory Set Temperature trip point	20℃
IP Rating	65
Gland Diameter	Max Cable Entry 2.5mm²
2 Lamp Installation	Must be fitted in Parallel
Operating Temperature	-20℃ to 30℃
IP Rating	IP65
Max Unit Operating Temperature	65℃
Dimensions	W=280mm D=200mm H=80mm
	'D' inclusive of Glands

PIR Movement Sensor (optional)

Operating Voltage	12V dc
Direction	90° Adjustable
Detect	18 Metres

Outdoor Temperature Sensor (optional)

Dimensions	W=115mm D=110mm H=55mm

WARNING
It is important that the Infresco IR is not mounted directly to any flammable material i.e. wood.

It is recommended that the heatsink be spaced off any the mounting wall using pillars to aid in heat dissipation

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).

Heat Outdoors

HEAT
Outdoors ltd

Installation & Users' Manual

4kW IR Control

RoHS Compliant
Directive
2002/95/EC