

X20021

Infrared Heating | Heater Controller



Infresco-T 6kW Controller

6000W, 240v

Advanced Energy-Saving Solution for Heating and Lighting



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KEY FEATURES:

- ✓ **Energy Saving:** Provides heat for a predetermined time period, reducing unnecessary energy consumption.
- ✓ **Extended Lamp Life:** Incorporates a soft-start function and zero-voltage switching to mitigate initial high inrush current, potentially increasing lamp life by up to 30%.
- ✓ **Control Capacity:** Capable of controlling up to 4 x 1500W lamps, making it versatile for various settings.
- ✓ **Cost-Effective:** Offers a low-cost solution for effective heating and lighting control.
- ✓ **Easy Installation.**
- ✓ **Soft-Start/Zero-Voltage Switch-Off:** Enhances the longevity of the lamps and ensures safe operation.

APPLICATIONS:

- **Patio Areas:** Ideal for providing targeted heating in outdoor patio spaces.
- **Smoking Shelters:** Ensures a comfortable environment in designated smoking areas.
- **Restaurants:** Enhances customer comfort in outdoor dining areas.
- **Warehouses:** Suitable for maintaining warmth in large, open industrial spaces.
- **Workshops:** Provides reliable heating for work environments.
- **Garden Lighting:** Perfect for controlling garden lighting, adding to the aesthetic appeal and functionality.

The **Infresco-T 6kW Controller** is a sophisticated part of the Infresco family, meticulously engineered to enhance energy efficiency when used with quartz infrared halogen lamps or other heating and lighting products. The 'T' model is designed to switch the lamps on for a predetermined time period ranging from 1 to 30 minutes, optimizing energy use while providing ample warmth and illumination.

The **Infresco-T 6kW Controller** is a reliable, cost-effective solution designed to maximize energy savings while extending the life of your lamps. Its microcontroller-based design ensures optimal performance, making it an ideal choice for a wide range of heating and lighting applications.

TECHNICAL SPECIFICATIONS

Supply Voltage	230V AC ±10% @ 50/60Hz
Max Load at 20°C Ambient	6kW Max.
Lamp On-Time	1 to 60 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 (W x L x H)	130x130x75 (mm)



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INSTALLATION

SAFETY FIRST!

Please carefully read these instructions before installing and operating the Infresco unit.

Positioning and Mounting

1. **Positioning:** Ensure the Infresco unit is positioned with the three fixed cable glands facing downward to prevent water ingress.
2. **Mounting:** Securely fix the unit using the four mounting holes accessible from the front. Use round cables to avoid water ingress.

Wiring

It is recommended that the installation and maintenance of this equipment be performed by suitably qualified/trained personnel, referencing the current edition of the I.E.E. wiring regulations (BS7671). These regulations contain important requirements regarding the 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.

Cable Glands: The unit is fitted with three cable glands. Only one cable should be fitted per gland to maintain the unit's IP rating. For connecting four lamps, refer to the 'Wiring Diagram' on the next page for an alternative configuration using two junction boxes.

Mains Supply Connection: Connect the mains supply to the terminal block marked 'LINE'.

- Live (L) to 'L' terminal
- Neutral (N) to 'N' terminal
- Earth (E) to 'E' terminal

Lamp Connection: Connect the lamps to the terminal block marked 'LOAD'.

- Live (L) to 'L' terminal
- Neutral (N) to 'N' terminal
- Earth (E) to 'E' terminal

Earth Continuity: Ensure all earth wires are connected to maintain earth continuity to the lamp fittings.

Final Check: Verify all wiring connections and ensure the cable glands are tightened.



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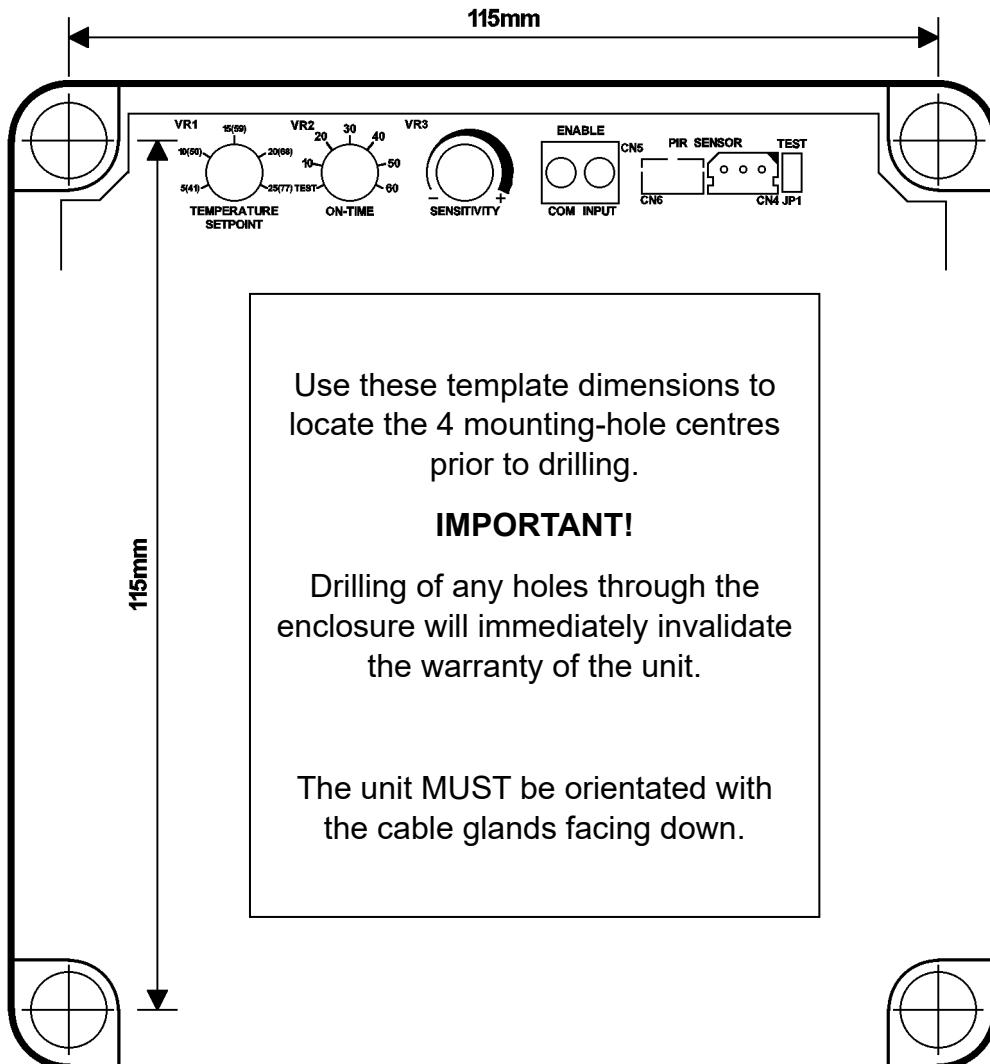
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Commissioning

1. **On-Time Preset:** Set the on-time preset (VR2) to a period between 1 and 60 minutes. Refer to the 'Mounting Template' to locate VR2.
2. **Final Setup:** Replace the lid and switch on the mains supply to the unit.
3. **Testing:** Press the push-button on the front of the unit to switch the lamps on.

By following these guidelines, you ensure a safe and effective installation and operation of your Infresco unit.

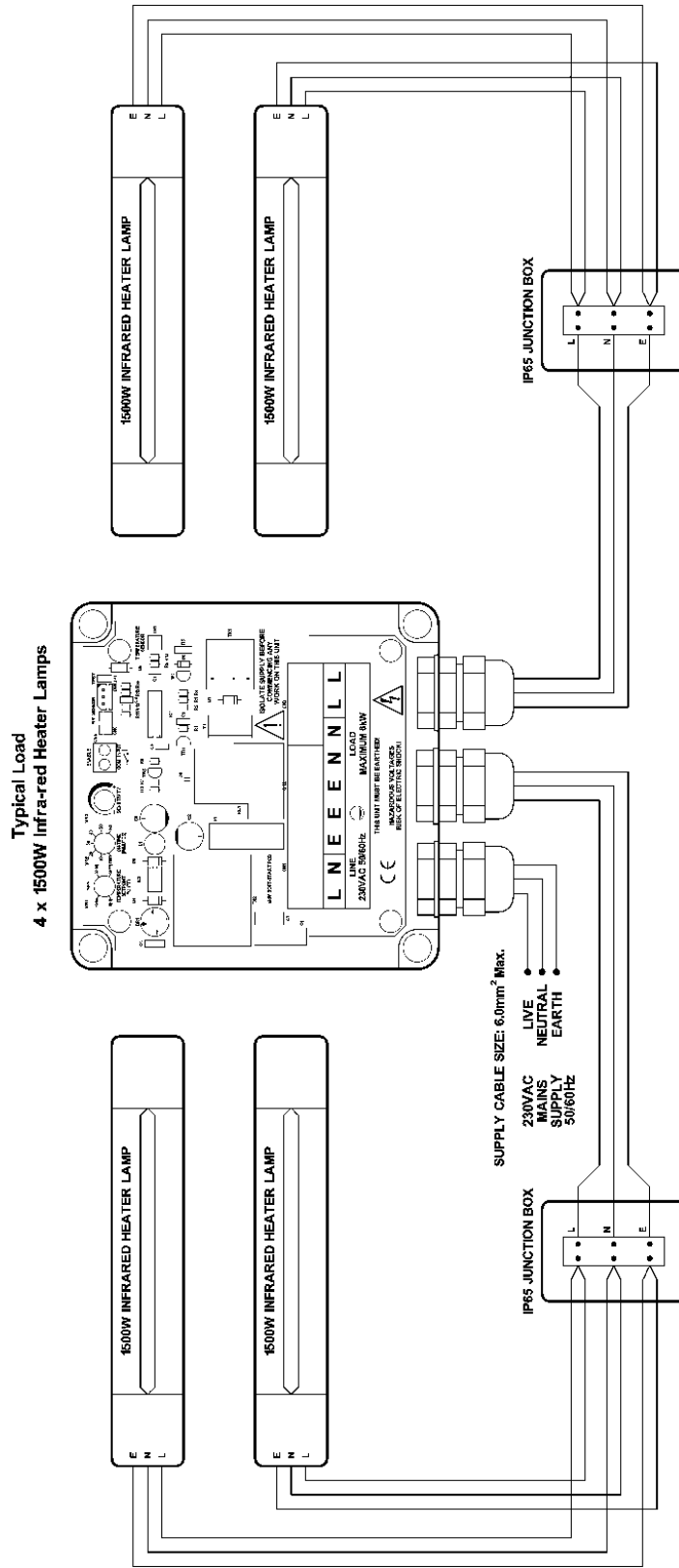
MOUNTING TEMPLATE



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WIRING DIAGRAM



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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	Solution
Lamps do not switch on	<ul style="list-style-type: none"> • 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.
Lamps do not switch off.	<ul style="list-style-type: none"> • Check the on-time preset (VR2) is set correctly. • Contact your supplier.

RECOMMENDATION & SAFETY REQUIREMENTS

DOCUMENTS

Other documents, which may be appropriate for your applications, are available on request.

Code	Identity	Description
X10255	SRA	Safety requirements: Addressing the Low Voltage Directive (LVD) including Thermal data/Cooling, Live parts warning, Earthing requirements & Fusing recommendations
P01.1	COS	UAL Conditions of Sale

NOTE: It is recommended that installation and maintenance of this equipment should be carried out by suitably qualified personnel, with reference to the current edition of the I.E.T. Wiring Regulations BS7671. The regulations contain important requirements regarding the safety of electrical equipment.

ELECTROSTATIC DISCHARGE (ESD)

This product range has been identified as requiring protection from electrostatic discharge (ESD). They include integrated circuits (IC's) that may be damaged or degraded if mishandled. They are much less vulnerable when built in-circuit and suitable and sufficient precautions are taken when being handled.

To address this matter, when the products are sold separately, they are protected in an ANTI-STATIC polyethylene bag.

Appropriate care should be taken when handling the units for installation.

OPTIONAL EXTRAS

Product Code	Product Description
A-HL-E72C-1	Wall Mounted Patio Heater 1.5kW (no remote)

PRODUCT CODE AND RELATED PRODUCT CODE

Product Code	Product Description
A86390	Infresco-T 6kW Controller-Advanced Energy-Saving Solution for Heating and Lighting



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