

X20032

Infrared Heating | Heater Controller



Infresco S 6kW Controller

6000W, 230v

Remote switch soft start



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KEY FEATURES:

- ✓ **Extended Lamp Life:** Soft-start and zero-voltage switch-off significantly increase lamp longevity.
- ✓ **Versatile Control:** Manage up to four 1.5kW lamps with ease.
- ✓ **Energy Efficient:** Reduces inrush currents to protect heater elements and save energy.
- ✓ **Easy Installation:** Designed for simple wiring with additional cable entry points.
- ✓ **Durable Construction:** IP65-rated for robust protection against dust and water.

The **Infresco-S 6kW** is a highly efficient controller designed to optimise energy usage when paired with Quartz Infrared Halogen Lamps or other heating and lighting products. This model is engineered with a soft start feature that significantly reduces high inrush currents, extending the life of heater elements by up to 30% and ensuring a smoother operation. Capable of controlling up to four 1.5kW lamps, the Infresco-S offers easy installation with two additional cable entry points for seamless wiring.

This microcontroller-based unit features zero-voltage switching and a soft-start function, reducing stress on the mains supply and enhancing the longevity of connected lamps. Whether used in residential or commercial settings, the Infresco-S is an ideal choice for controlling infrared heating lamps and garden lighting, making it perfect for patios, restaurants, warehouses, and more.

APPLICATIONS:

The Infresco-S 4kW controller is perfect for a wide range of settings, including:

- Patio Areas
- Smoking Shelters
- Restaurants
- Warehouses
- Workshops
- Garden Lighting
- Livery Stables

TECHNICAL SPECIFICATIONS

Mains Voltage	230V AC ±10% @ 50/60Hz
Max. Operating Current	25A
Power Consumption	50mA
Operating Temperature	-40°C to +30°C
PCB Terminal	Max. Cable Entry Size 6mm
Remote Switch Type	Latching
IP Rating	IP65
Gland Diameter (Fitted)	Max. Cable Entry 2.5mm ²
4 Lamp Installation	Must be fitted in Parallel



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INSTALLATION

IMPORTANT: Carefully read the following instructions before installing the unit.

Position the Infresco-S 6kW unit with the three fixed cable glands facing downward, ensuring secure attachment using the four mounting holes accessible from the front of the unit. To prevent water ingress, it is recommended to use round cables.

Wiring

Warning! Ensure the mains supply is fully isolated before commencing any wiring.

The unit comes with three pre-fitted cable glands. To maintain the unit's IP rating, only one cable should be inserted per gland. If connecting up to four lamps, two additional cable glands can be installed. Refer to Figure 2 for guidance.

- **Mains Supply:** Connect to the terminal block labelled 'LINE.' Attach the supply LIVE wire to the 'L' terminal, NEUTRAL wire to the 'N' terminal, and EARTH wire to the 'E' terminal.
- **Lamps:** Connect to the terminal block labelled 'LOAD.' Attach the load LIVE wire to the 'L' terminal, NEUTRAL wire to the 'N' terminal, and EARTH wire to the 'E' terminal. The load connections are paired, allowing multiple lamps to be connected.

IMPORTANT: Ensure all earth wires are securely connected to maintain earth continuity to the lamp fittings. Double-check all wiring, especially the line and load connections, and ensure that the cable glands are properly tightened.



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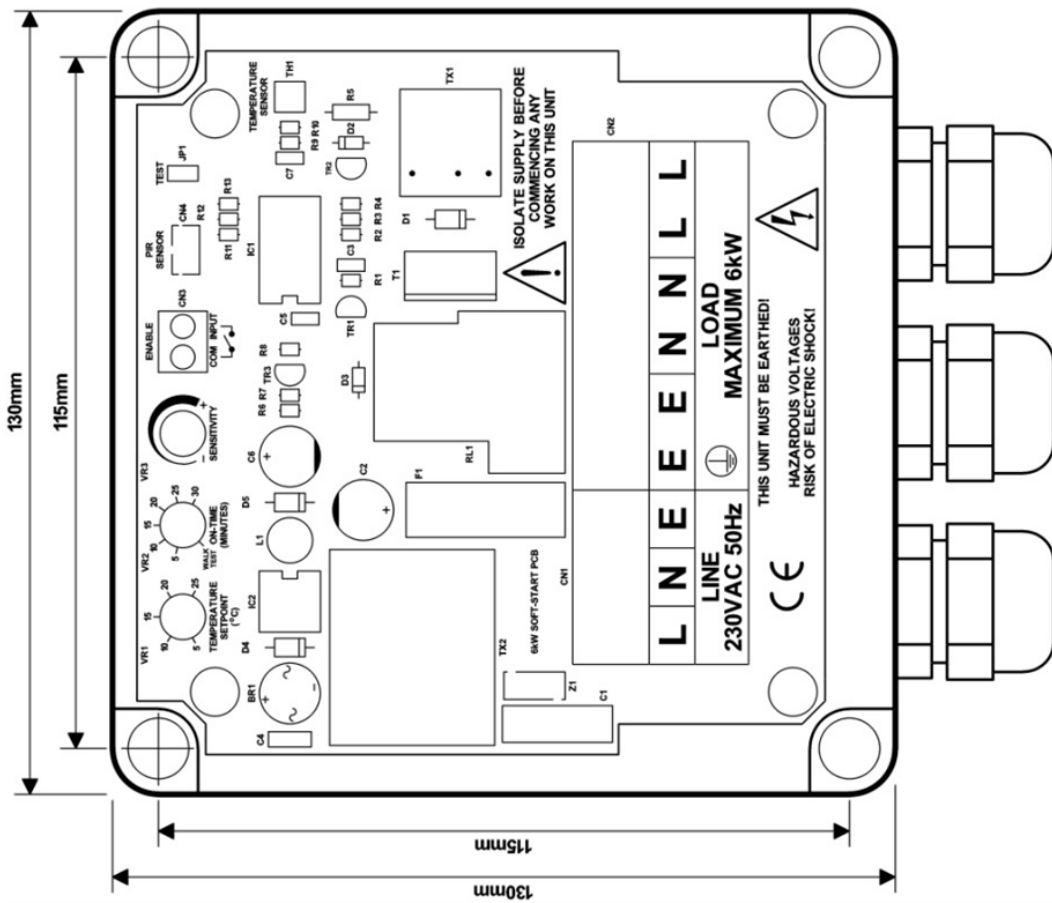
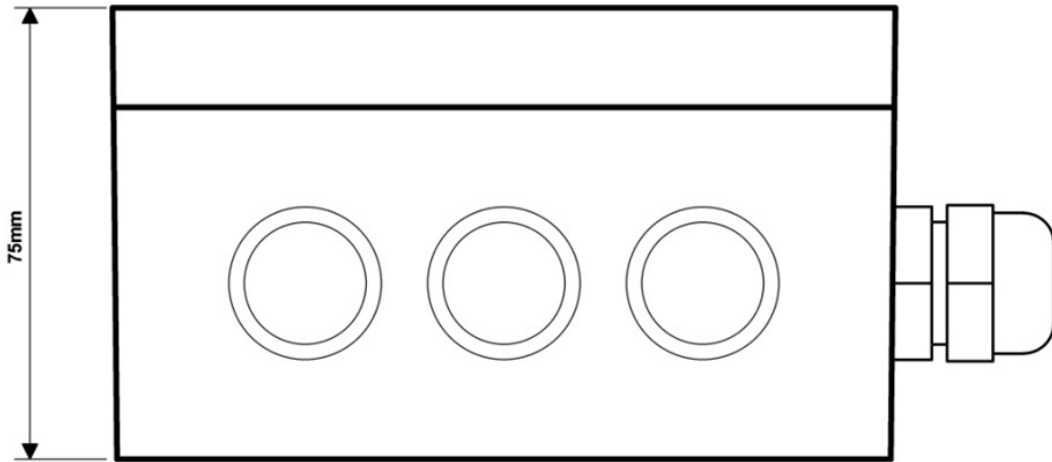


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DIMENSIONS



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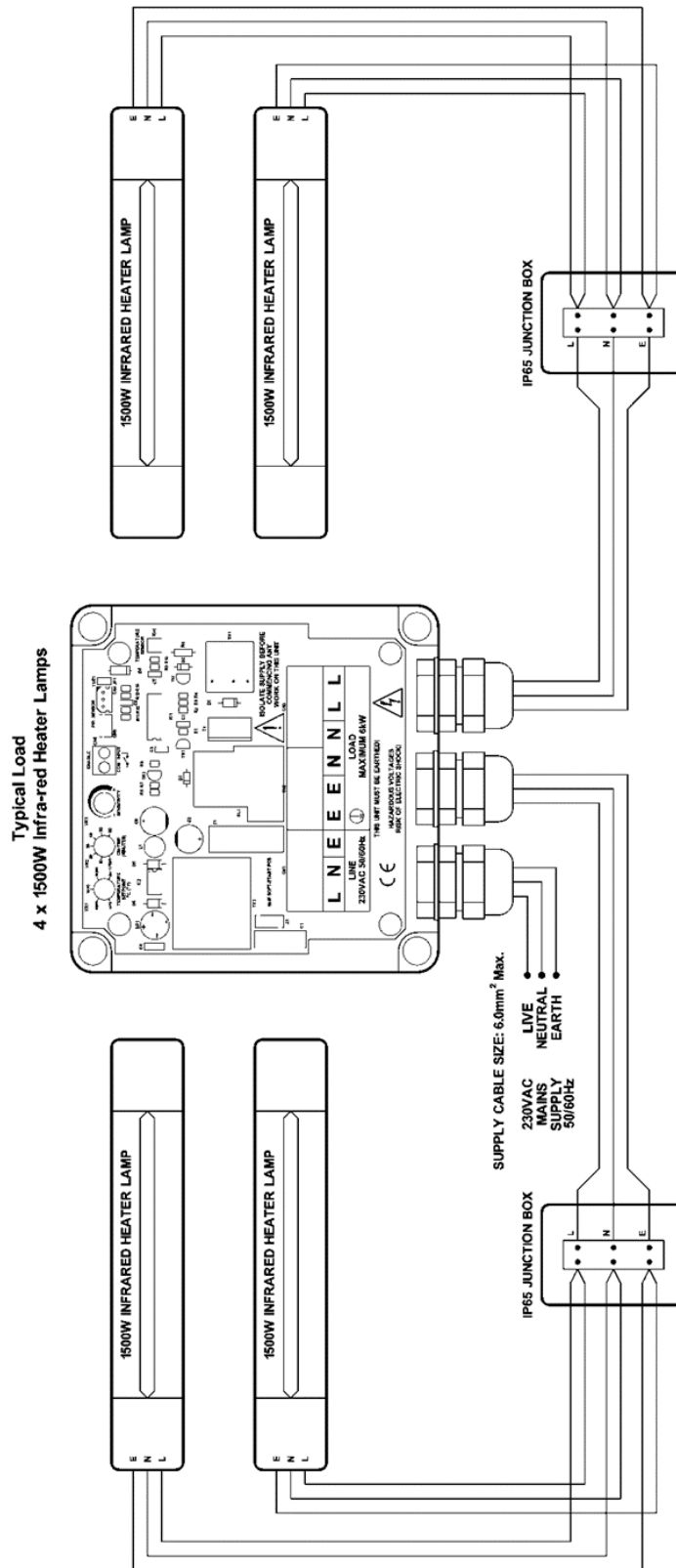


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CONNECTIONS

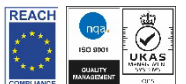


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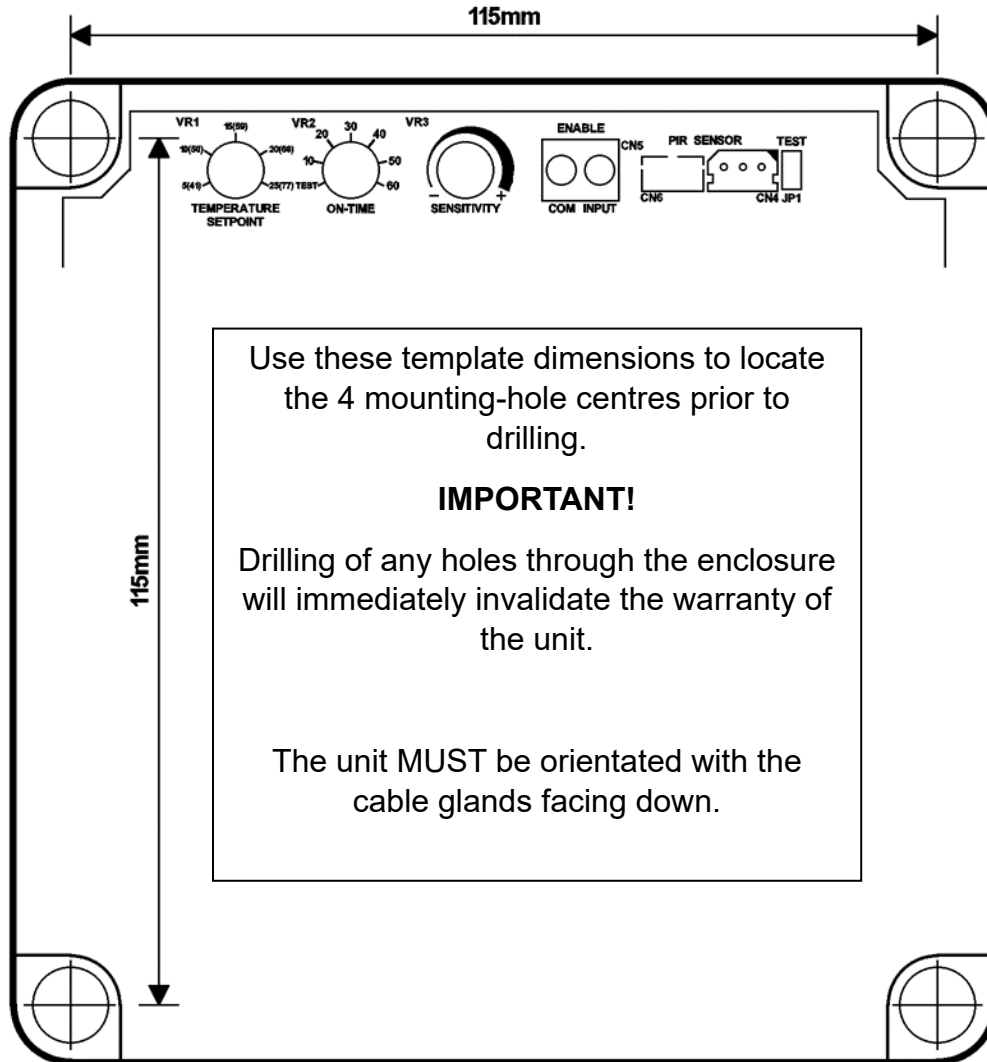
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MOUNTING TEMPLATE

IMPORTANT! When wall mounting, the unit must be oriented with the cable glands facing downwards.



TROUBLESHOOTING

Problem	Solution
Lamps do not switch on	1 Check the LINE and LOAD wiring connections to the unit and ensure the mains supply is switched on. Go to [2] if fault still exists
	2 Check the lamps/lamp fittings. If possible, fit a known working lamp. Go to [3] if fault still exists
	3 Isolate the mains supply then check, and replace, if necessary, the PCB-mounted fuse (F1). If the fault still exists, go to [4]
	4 Contact your supplier



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RECOMMENDATION

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 and 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.

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
A86392	Infresco S 6kW Controller - Switch – Remote switch soft start



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