

X20032

Infrared Heating | Heater Controller

# Infresco S 6kW Controller

6000W, 230v

Remote switch soft start

## CONTACT US:

☎ 0044 (0) 1704-516 501

✉ [enquiries@united-automation.com](mailto:enquiries@united-automation.com)

🌐 [www.united-automation.com](http://www.united-automation.com)



## 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.

## TECHNICAL SPECIFICATIONS






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

## 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

## YOU MUST READ THIS BEFORE INSTALLATION

 ELECTRICAL SAFETY	 INSTALLATION REQUIREMENTS	 USER RESTRICTIONS	 USAGE ENVIRONMENT	 HOT SURFACE WARNING
<b>WARNING: RISK OF ELECTRIC SHOCK</b> Always consult the Installation & Maintenance Instructions before connecting this product to the power supply. <b>WARNING: Disconnect Power Before Servicing</b> Ensure the electrical supply is safely disconnected before connecting to any supply, load, or control terminals.	<b>WARNING: Installation by Qualified Personnel Only</b> This product must only be installed or fitted by a competent, qualified installer familiar with the relevant electrical standards and installation practices.	<b>WARNING: Not for Use by Vulnerable Individuals</b> This product is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they are supervised or instructed by a person responsible for their safety.	<b>WARNING: Industrial Use Only</b> This is an industrial-grade product and is not intended for household use.	<b>WARNING: Hot Surfaces</b> On certain models, surfaces marked with this symbol become hot during use. Avoid direct contact and follow all thermal safety precautions.

# Infresco S 6kW Controller

6000W, 230v

Remote switch soft start

## 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

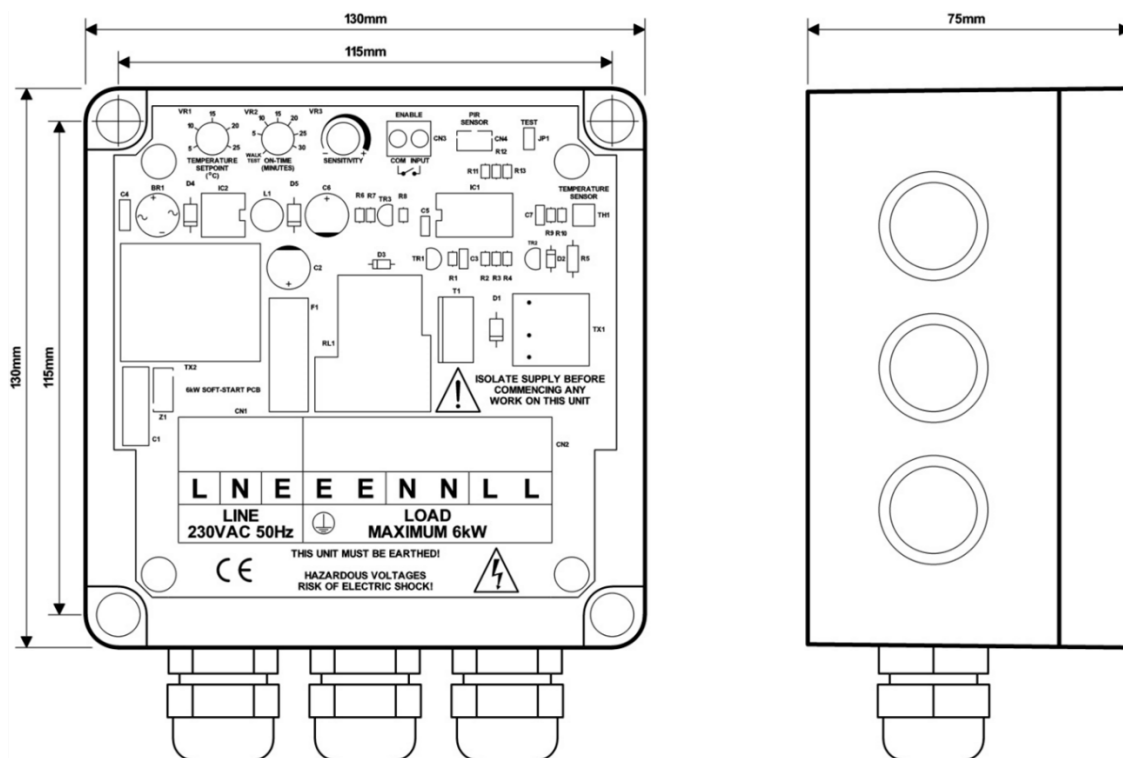
**Warning!** Ensure the mains supply is fully isolated before commencing any wiring.

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.

## DIMENSIONS



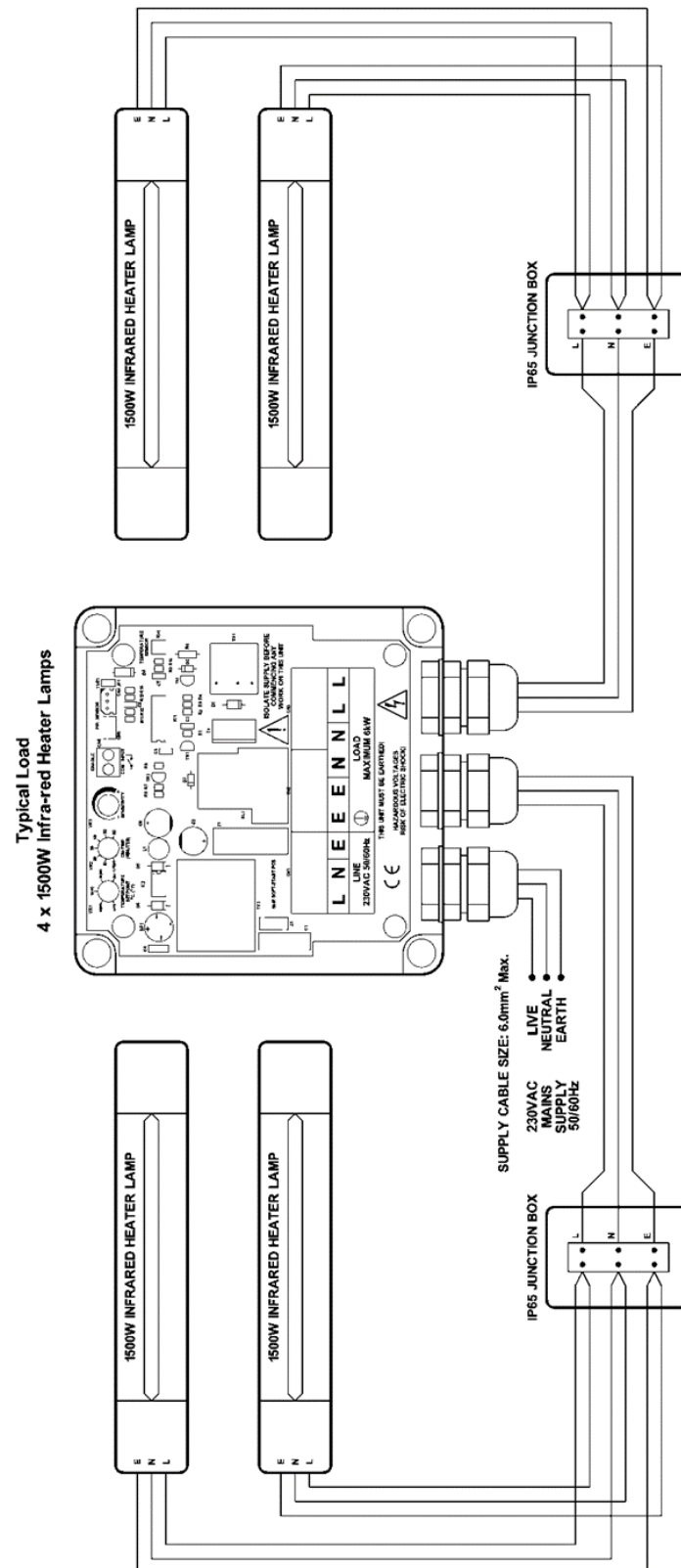
### Contact Us:

# Infresco S 6kW Controller

6000W, 230v

Remote switch soft start

## CONNECTIONS



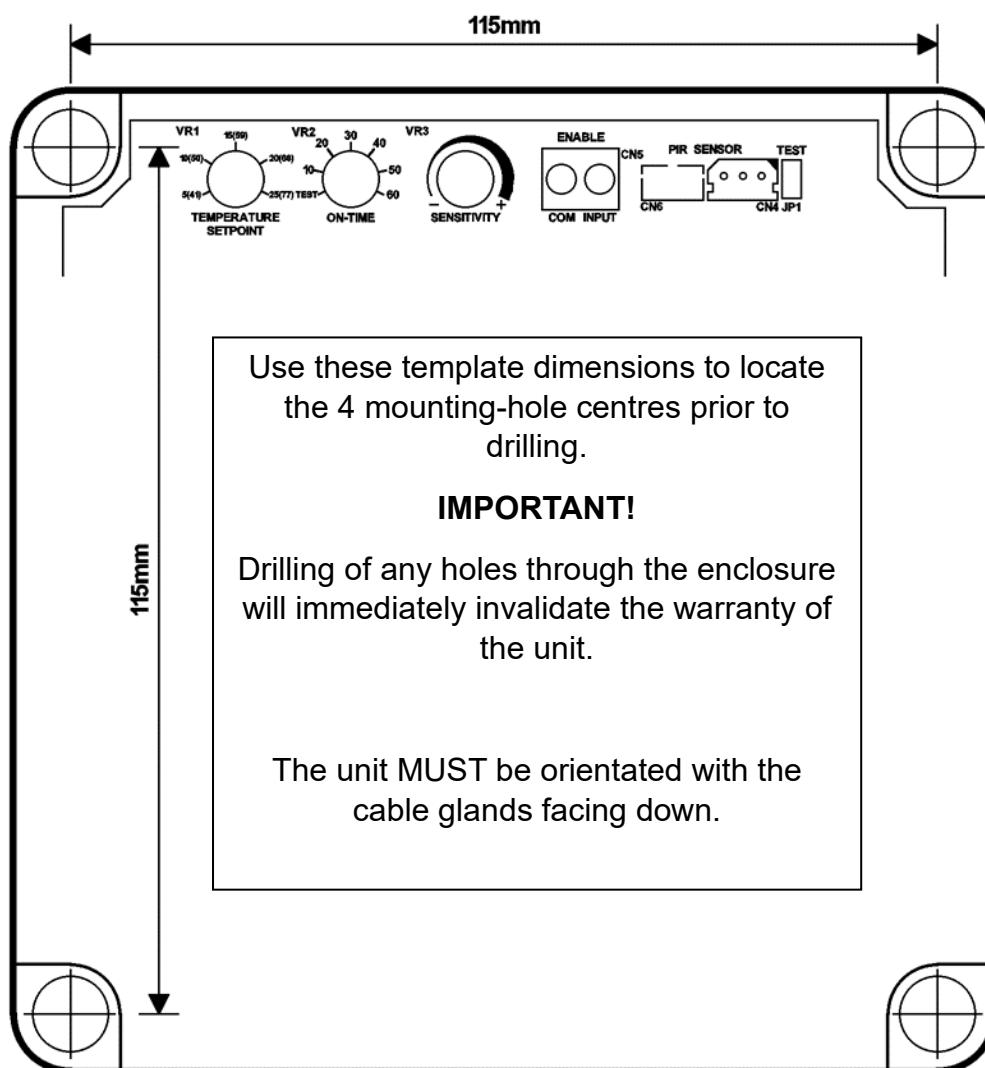
# Infresco S 6kW Controller

6000W, 230v

Remote switch soft start

## MOUNTING TEMPLATE

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



# Infresco S 6kW Controller

6000W, 230v

Remote switch soft start

## 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

## 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



BMF House - Wight Moss Way,  
Southport Business Park  
Southport PR8 4HQ  
ENGLAND, UNITED KINGDOM

**Contact Us:**  
☎ 0044 (0) 1704-516 501  
✉ enquiries@united-automation.com  
🌐 www.united-automation.com

