

X20036

Infrared Heating | Heater Controller



Infresco VR 1.5Kw Control (5 step version)

1500W, 240v

Optimal Control for Quartz Halogen Infrared Heat Lamps



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KEY FEATURES:

- ✓ **5-Step Output Control:** Select from Off, Low, Medium, High, and Full power settings for tailored comfort.
- ✓ **User-Friendly Interface:** Up and down push buttons for easy power level selection.
- ✓ **Power Indication:** High-intensity LED indicates when the controller regulates the lamp's power.
- ✓ **Soft-Start Function:** Gradually switch on the lamp to extend lamp life.
- ✓ **IP55 Protection:** Suitable for outdoor installation with protection against dust and water jets.
- ✓ **Simple Wall Mounting:** Easy installation on any wall surface.
- ✓ **Integral EMC Filter Suppression:** Reduces electromagnetic interference.
- ✓ **Relay Override at Maximum Output:** Minimizes heat dissipation at full power.

APPLICATIONS:

- **Patio Areas:** Provides targeted heating for outdoor spaces.
- **Smoking Shelters:** Maintains comfort in smoking areas.
- **Restaurants:** Enhances comfort in outdoor dining.
- **Warehouses:** Keeps large industrial spaces warm.
- **Workshops:** Ensures reliable heating for work environments.
- **Garden Lighting:** Controls lighting to enhance garden aesthetics.

The INFRESCO-VR-1.5KW controller is expertly engineered to provide variable control of mains-driven loads, specifically for Quartz Halogen Infrared heat lamps, up to a total of 1.5KW. This microcontroller-based unit features a unique 5-step output system, allowing users to select precise power levels for optimal comfort and efficiency. The five steps include *Off, Low, Medium, High, and Full* power settings.

Equipped with a 'soft-start' function, the controller gradually powers up the lamp to eliminate the initial high inrush current, potentially extending the lamp life by up to 30%. The user-friendly design includes up and down push-buttons for easy selection of output levels, with a high-intensity LED providing clear indication when the controller is regulating the power to the lamp load.

Installation is straightforward, and the unit's robust design ensures it remains low maintenance once set up, making it a reliable choice for various applications.

The INFRESCO-VR-1.5KW controller is the ideal solution for efficient and precise control of infrared heat lamps, ensuring energy savings, extended lamp life, and optimal performance in various settings.

TECHNICAL SPECIFICATIONS

Supply Voltage	230V AC +/-10%
Supply Frequency	50Hz
Load Rating (maximum)	6.5A (1.5kW @ 230V AC & 25°C ambient)
Output Levels (total of 5 levels)	Off, Low, Medium, High & Full Power
Fusing or MCB Rating (external)	13A (Brown) Mains fuse or 16A domestic MCB
IP Rating	IP55 – Dust protection; protected against water jets
Operating Temperature	-20°C to 50°C
Maximum Ambient Temperature	30°C
Fixings	4 x 3.5Ø holes (on 97 x 82mm centres)
Supply & Load Cable (recommended)	1.0mm ² 400V AC (minimum rating)
Terminal Cable Ratings	2.5mm ²
Terminal Torque Settings (maximum)	0.5 Nm
Weight	500g
Power Consumption (maximum)	70mA
Isolation Voltage	2500V RMS



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Efficient Energy-Saving Solution for Heating and Lighting

INSTALLATION

MECHANICAL FIXING:

Warning: Isolate the mains supply before starting any installation work.

- Remove the four screws securing the front panel of the controller, being careful not to damage the ribbon connector attached to the internal circuit board. The front panel and ribbon connector can be disconnected for wall fixing.
- Mount the controller securely and vertically on a solid wall using suitable wall fixings via the provided mounting holes.

Warning: Do not drill additional holes in the enclosure as this compromises the IP rating and voids the warranty.

- Avoid placing the controller where it may be exposed to water or direct sunlight.
- Maintain an air gap between the wall and the metal heatsink/plate at the rear of the controller for adequate cooling.

FUSING/PROTECTION:

Protect the controller with either a 13A fuse and plug or a suitable remote Fuse/MCB within a distribution panel.

WIRING:

- **DO NOT** use more than one single 3-core cable per cable gland. Use separate cables for the supply connection and the load.
- Loosen the cable glands and feed the cable through, ensuring each gland has the internal sealing grommet fitted to maintain the IP rating.
- Strip back the outer insulation of the 3-core cable to approximately 40mm without damaging the individual cable insulation. Leave the Earth cable at 40mm and cut the remaining two cables back to 30mm. Strip each cable end back about 6mm and feed the whole cable through the correct cable gland.
- Connect the cables to the correct terminals as marked on the printed circuit board, ensuring the Earth wire is at least 10mm longer than the other wires.
- Tighten each cable gland, ensuring the rubber sealing grommet tightly grips the outer insulation of the cables.
- Replace the front cover, ensuring the ribbon connector is securely fitted and the seal is properly seated in the lid's groove.

COMMISSIONING

- Ensure the cover is securely fitted to the unit and the load (lamp) is mounted and connected according to the provided instructions. Switch on the power to the controller.
- The Red 'Status' LED indicator should remain off initially.
- Press the '+' button once to increase the output level to 'Low' and illuminate the Red 'Status' LED. Press the '+' button three more times to reach full power.
- Press the '-' button to decrease the output levels one step at a time. The LED should be illuminated if there is power to the load (lamp).



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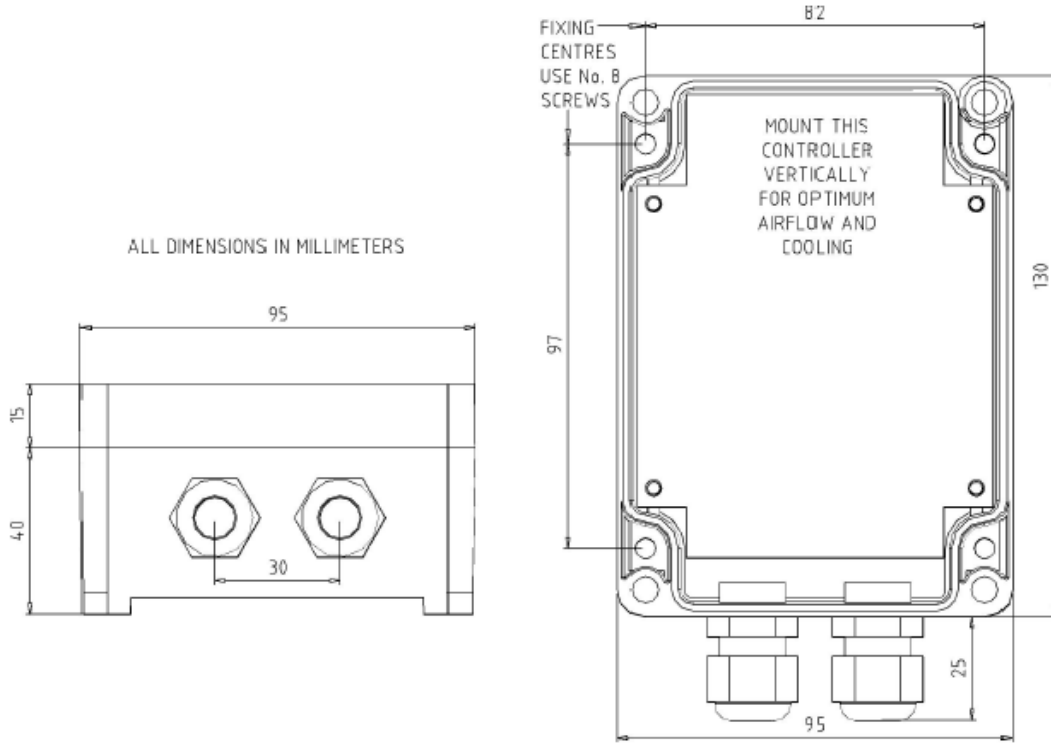


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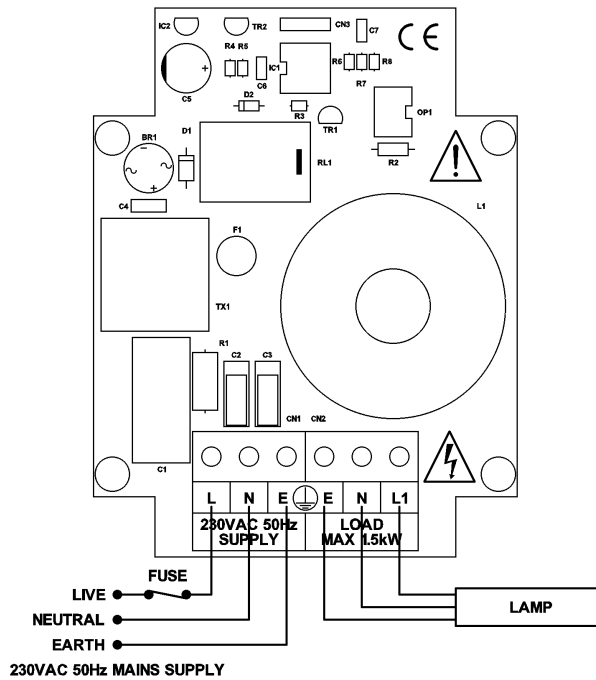
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DIMENSIONS & INSTALLATION



WIRING & CONNECTION DIAGRAM



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RECOMMENDATION

SAFETY ADVICE

Warning: This device operates at 'mains potential'. Ensure the power supply is switched off at the source during installation and servicing.

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 done with reference to the current edition of the I.E.E. wiring regulations (BS7671) by an approved (NICEIC or equivalent). electrical contractor. These regulations contain important requirements regarding safety of electrical equipment (for International Standards refer to I.E.C/ directive IEC950).

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
A86710	Infresco VR 1.5Kw Control (5 step version) - Efficient Energy-Saving Solution for Heating and Lighting



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