

X10820

Infrared Heating | Heater Controller



Infresco 3kW Manual Controller with 2 Gang Box

Power Regulator for use with IR Heater



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KEY FEATURES:

- ✓ **Integral RFI Network:** Ensures compliance with EMC standards, reducing interference.
- ✓ **On/Off Switch:** Easily control power with a simple turn, with the off position fully anti-clockwise.
- ✓ **Plug-in Power Connector Block:** Simplifies installation and setup.
- ✓ **Rugged and Compact Design:** Optimised for thermal dissipation, ensuring longevity and reliability.
- ✓ **Wall-Mounted Enclosure:** Easy installation with knockout holes for straightforward wiring.

APPLICATIONS:

The Infresco 3kW Manual Controller is perfect for use with Quartz Infrared Halogen Lamps and various other heating and lighting products, offering energy-efficient control in commercial and residential settings.

The **Infresco 3kW Manual Controller** is a highly efficient, compact phase-angle energy regulator designed to provide precise control over infrared heaters and other heating or lighting products. Encased in a durable metal double-gang, wall-mounted enclosure, this controller allows users to adjust the power output from 0-100% of a 230VAC infrared heater, delivering both energy savings and enhanced user control. With built-in RFI suppression, this unit ensures compliance with EMC standards, making it an ideal choice for environments where electromagnetic compatibility is crucial.

The **Infresco 3kW Manual Controller** offers a reliable and cost-effective solution for managing the power output of infrared heaters and other compatible devices, making it an essential tool for energy-conscious users.

TECHNICAL SPECIFICATIONS

Triac limiting RMS. On state cycle	25A
Peak one cycle surge @ (10mS)	320A
Min. operating current	200mA
Max. forward volts drop at 10A	1.5V
Max. load at 30°C ambient	13A
Max. unit operating temperature	65°C
Isolation voltage	2500V RMS
I²t limiting RMS. On state current	112A ² s
Unit limiting RMS. On state current	13A
Mains supply tolerance, +/- 10%	230V or 110V AC
Mains frequency	50/60Hz
Unit storage temperature range	0 to + 65°C
Dimensions and Weight	
Enclosure overall dimensions (excl pot & knob)	140mm (W) x 80mm (H) x 44mm (D)
Potentiometer shaft diameter	6.3mm
Potentiometer bush length	7mm



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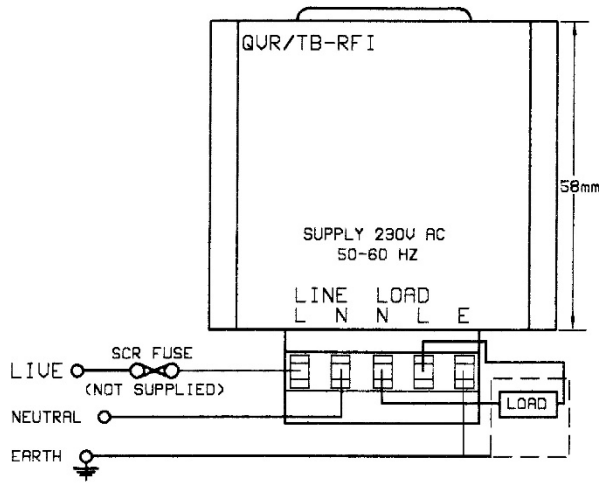


Infresco 3kW Manual Controller

3kW

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CONNECTIONS



WARNING: Switch of mains supply before commencing any installation or service work.

The Infresco 3kW unit can be mounted recessed in a wall, provided the IR load is rated no more than 2KW. For a load rated above 2KW, the unit must be mounted proud of the wall to ensure adequate cooling.

The HLVR2 should be connected according to the adjacent Wiring Diagram, using cables suitable for the maximum load rating of the IR heater load.

It is recommended to use a suitably rated semi-conductor protection fuse or Z-type MCB to protect the internal triac device (max rating 20Amps).

This unit **MUST** be EARTHED

RECOMMENDATION

FUSING

The unit comes with an integral 8A Protection fuse (32mm FF type). On initial “switch” on, some loads may need an increased Factor of Safety (F of S) for Unit and/or Device protection. See SRA Data sheet for further information.

DOCUMENTS

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

Code	Identity	Description
X10229	RFI	Filter recommendations: Addressing the EMC Directive
X10213	ITA	Interaction: Uses for phase angle and for burst fire control
X10255	SRA	Safety Requirements: Addressing the Low Voltage Directive (LVD) including, Thermal Data/Cooling, Live Parts Warning, Earthing Requirements and Fusing Recommendations
X10378	ILR	Inductive loads remedy sheet for use with phase angle controllers
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.

PRODUCT CODE AND RELATED PRODUCT CODE

Product Code	Product Description
A86712-UA	Infresco 3kW Manual Controller



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