Infresco ™

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united automation

www.united-automation.com

Contents:

United Automation Limited

British Engineering Excellence Since 1964

United Automation is a leading UK manufacturer of industrial control systems, based in Southport, England. With over 60 years of experience, we design and manufacture high-quality solutions for power, temperature, and motion control. Our Infresco range reflects a proud heritage of innovation, reliability, and British engineering excellence.

All products are designed and built in-house in the UK, ensuring rigorous quality control, dependable performance, and the flexibility to meet evolving market demands. Today, United Automation supplies over 400 standard products to customers in more than 88 countries worldwide, alongside bespoke control solutions tailored to specific applications.

Why Choose United Automation?

Choosing United Automation means partnering with a proven control specialist committed to quality, performance, and support.

UK Manufactured Quality
All United Automation products are designed and manufactured in-house at our Southport facility, ensuring consistent quality, rigorous testing, and reliable long-term performance.

60+ Years of Expertise
Founded in 1964, United Automation is a trusted pioneer in industrial power electronics, delivering proven, reliable control solutions across multiple industries.

Standard & Bespoke Solutions
With over 400 standard products and extensive custom design capability, we provide both off-the-shelf and tailored control solutions to meet exact requirements.

Global Confidence
Trusted in more than 88 countries worldwide, our products meet international compliance standards and are supported by expert technical support and a 12-month warranty.

Intelligent Heat Management

Precision Control Systems

Infresco by United Automation is not just a range of heating products; it is a complete, intelligent system designed to manage infrared heating with **pinpoint accuracy and superior energy efficiency.** Utilising advanced solid-state technology, Infresco controllers and their complementary line of high-performance infrared heater lamps allow you to move beyond simple 'on/off' heating.
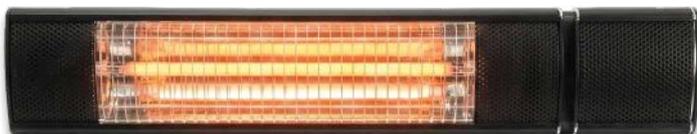
Infresco™

KEY INTELLIGENT FEATURES:

SOFT-START TECHNOLOGY
Extends lamp lifespan by up to 30% by reducing in-rush current.

VARIABLE CONTROL
Adjust heat output precisely (30-100%) to match ambient conditions.

SENSOR INTEGRATION
Seamless compatibility with PIR movement and temperature sensors for automated efficiency.

SCALABLE POWER
We provide solutions for both single-phase and heavy-duty 3-phase applications, ensuring the ideal solution for your needs.

CUSTOM KW CONFIGURATION
Seamlessly build your optimal heating system, matching controllers and Heater lamps precisely to your power needs—from 1.5kW units up to the largest bespoke solutions you require.

From sophisticated multi-zone commercial installations to simple outdoor space, the Infresco range ensures instant, focused warmth with minimal energy waste. We provide the control necessary to maximise comfort while reducing running costs.

Why Infresco?

Precision-Engineered Control

Designed and manufactured in the UK, Infresco controllers provide levels of control and reliability that standard switches and timers cannot achieve.

- **Extended Lamp Life** through controlled soft-start power delivery
- **Improved Energy Efficiency** with accurate heat regulation
- **Automated Operation** using sensor-based control
- **Robust, Weatherproof Design** with high IP ratings (up to IP65)
- **Multi-Zone Control** via centralised HMI solutions

Infresco puts you in complete control of comfort, efficiency, and performance.

More info:
https://united-automation.com/product-category/infresco-infrared-heating-controllers-and-accessories/

Why Control a Lamp Heater with Infresco?

Infresco turns infrared lamp heaters into a smart, responsive heating solution that works exactly when and where you need it. Instead of wasted energy and harsh on/off heat, Infresco delivers smooth, intelligent control that enhances comfort, protects your investment, and reduces running costs.

HEAT ONLY WHEN IT MATTERS
Integrated PIR sensors and timers ensure warmth is delivered only when a space is in use—no wasted energy, no unnecessary expense.

PROTECT YOUR LAMPS
Extend Their Life Infresco's soft-start technology gently powers up lamps, reducing electrical stress and helping premium gold and quartz lamps reach their full rated lifespan.

PERFECT COMFORT, EVERY TIME
Fine-tune heat output to suit the moment—from instant full warmth to subtle background heating—creating the ideal atmosphere for customers, guests, or staff.

Smarter Control. Greater Efficiency. Better Comfort.
Infrared heating is an investment; Infresco ensures you get the most out of it.

Infresco Controllers & Accessories

Infresco™

The Infresco range offers intelligent controllers and accessories for every infrared heating application — from simple manual dimming to advanced multi-zone and industrial power management. Designed and manufactured in the UK, Infresco controllers work seamlessly with high-performance infrared heater lamps to deliver precise, energy-efficient heat control.

Our Best-Selling Infresco Products

Infresco-T Touch Timer Controller
Intuitive touch-control with integrated timer functions, ideal for commercial and hospitality environments.

4kW **6kW** *SKUs: A86601, A86390*

Infresco-P Occupancy Sensor Controller
Automatically activates heating only when areas are occupied, reducing energy waste and operating costs. The built-in sensor ensures maximum efficiency by eliminating unnecessary heating.

4kW **6kW** *SKUs: A86602, A86391*

Infresco-VR Remote & Manual Controller
Flexible control via remote handset (optional) or manual adjustment for precise heat management.

4kW **6kW** *SKUs: A86394, A86396, A86393, A86395*

Infresco-S Protect Soft-Start Controller
Protects lamps with controlled soft-start technology, extending lifespan and improving reliability. Enables remote switching with the added benefit of a soft start to protect equipment.

4kW **6kW** *SKUs: A86603, A86392*

Infresco-VR Step & Dimmer Switch
Variable infrared heater controller offering stepped or smooth output control for precise, flexible heat adjustment in smaller installations.

1.5kW **3kW** *SKUs: A86711, A86710, A86712-UA*

Infresco-MZ Multi-Zone Power Hub
Heavy-duty industrial controller with three independently controlled 6kW channels, each with soft-start protection ideal for large, multi-zone commercial or industrial installations.

18kW *SKUs: A418307, A418308*

Infresco-T Touch Timer Controller (1-60 Min)
Automated Push Button Heater Switch

The Infresco-T Touch Timer provides intelligent, push-button control for quartz and infrared heating lamps in commercial and industrial environments. Featuring advanced capacitive touch technology, soft-start, and zero-voltage switching, it reduces in-rush current and extends lamp life by up to 30%.
User-defined heating cycles from 1 to 60 minutes ensure precise, energy-efficient warmth, while the robust IP65-rated enclosure delivers reliable, maintenance-free operation indoors or outdoors.

4kW *SKU: A86601*

6kW *SKU: A86390*

★ KEY FEATURES

· Capacitive touch interface for simple, intuitive operation
· Soft-start technology extends lamp life by up to 30%
· Zero-voltage switch-off for improved energy efficiency
· LED indicators for power and heating status
· Easy, low-maintenance installation
· IP65-rated for durability in demanding environments

✿ TECHNICAL HIGHLIGHTS

· Supply Voltage: 230V AC ±10% @ 50/60Hz
· Switching Capacity: 4kW or 6kW max
· Max Operating Current: 25A
· Power Consumption: 50mA
· Lamp On-Time: Adjustable from 1 to 60 minutes
· Operating Temperature: -20°C to +30°C

⠿ APPLICATIONS

Ideal for indoor and outdoor commercial and industrial environments, including restaurants, terraces, pub gardens, smoking shelters, workshops, warehouses, and general work or public areas where precise, energy-efficient infrared heating control is required.

Infresco Controller and Infrared Heating Lamp Diagram

Typical Load - 4x 1500W Infrared Heater Lamps

Supply Cable

More info:
https://bit.ly/3ZTb7iw
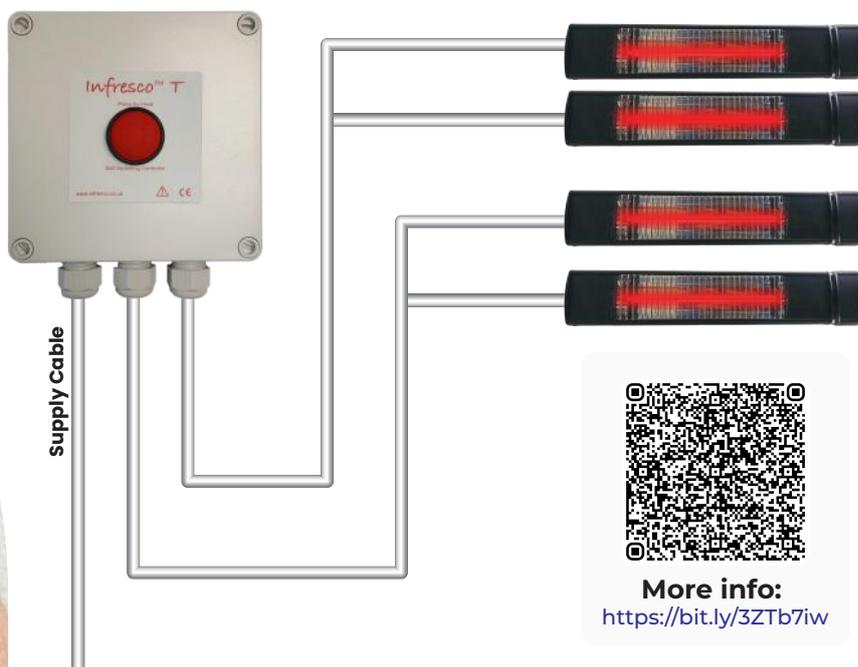
Infresco-P Occupancy Sensor
PIR Motion-Activated Heater Controller

The Infresco-P Occupancy Sensor delivers intelligent, presence-activated infrared heating for commercial and industrial environments. Combining PIR motion detection with integrated temperature control, the system ensures heaters operate only when spaces are occupied and ambient temperatures fall below the set point. This dramatically reduces energy consumption while soft-start and zero-voltage switching extend lamp life by up to 30%.

With an IP65-rated enclosure, the Infresco-P is robust, easy to install, and suitable for reliable indoor or outdoor operation.

4kW *SKU: A86602*

6kW *SKU: A86391*

★ KEY FEATURES

· PIR motion sensor for presence-activated heating
· Integrated temperature control for energy-efficient operation
· Soft-start and zero-voltage switch-off to extend lamp life by up to 30%
· Controls up to 4 × 1.5kW infrared lamps (6kW model)
· Adjustable run-on timer (model dependent)
· LED indicators for power and heater status
· Simple, low-maintenance installation
· IP65-rated for demanding environments

⚙ TECHNICAL HIGHLIGHTS

· **Supply Voltage:** 230V AC ±10% @ 50/60Hz
· **Switching Capacity:** 4kW or 6kW max
· **Max Operating Current:** 25A
· **Power Consumption:** 50mA
· **PIR Detection Range:** 5m, 100° coverage
· **Temperature Set Point:** Model dependent
· **Operating Temperature:** -20°C to +40°C

▦ APPLICATIONS

Ideal for indoor and outdoor commercial and industrial spaces including terraces, restaurants, smoking shelters, workshops, warehouses, garden areas, livery stables, and public or work environments where efficient, presence-activated infrared heating is required.

This diagram illustrates an automated energy-management system designed for outdoor or draughty indoor spaces. The **Infresco-P occupancy sensor** monitors the area using passive infrared beams (shown as green rays); as soon as it detects human movement, it triggers the overhead infrared heaters. This setup ensures that heat (the red zone) is only generated when the area is occupied, **significantly reducing electricity wastage and extending the lifespan of the heating elements.**

Infresco-VR Variable Dimmer
Manual & Remote Variable Heater Regulator

The Infresco-VR provides flexible, precision control for infrared heating in outdoor, commercial, and industrial environments. Available in manual or remote-control versions, it features proportional control from 30% to 100%, soft-start technology, and optional PIR and temperature sensor integration. By reducing inrush current, Infresco-VR helps extend heater lamp life by up to 30%, while delivering consistent comfort and improved energy efficiency in demanding applications.

4kW **6kW** *SKU: A86394, A86396 (Manual)*
A86393, A86395 (Remote)

Optional PIR motion, temperature sensors (VR Manual and Remote) and Remote-control operation available (VR Remote models)

★ KEY FEATURES

- Available in 4kW or 6kW load capacities
- 10-step adjustable heat output
- Soft-start technology extends lamp life by up to 30%
- Optional PIR motion and temperature sensors
- Remote-control operation available (VR Remote models)
- Energy-efficient, responsive heat management
- IP65-rated for reliable outdoor use

✿ TECHNICAL HIGHLIGHTS

- **Supply Voltage:** 230V AC ±10% @ 50Hz
- **Max Load (20°C ambient):** 4kW or 6kW
- **Power Consumption:** 50mA
- **Operating Temperature:** -20°C to +30°C
- **PIR Run-On Time:** 5 minutes

⠿ APPLICATIONS

Ideal for restaurants, terraces, pub gardens, smoking shelters, workshops, warehouses, and outdoor or indoor commercial spaces requiring precise, energy-efficient infrared heating with manual or remote control flexibility.

INFRESCO CONTROLLER
AND INFRARED HEATING LAMP DIAGRAM
Typical Load - 4x 1500W Infrared Heater Lamps

Optional Extras available for VR Remote models

Supply Cable
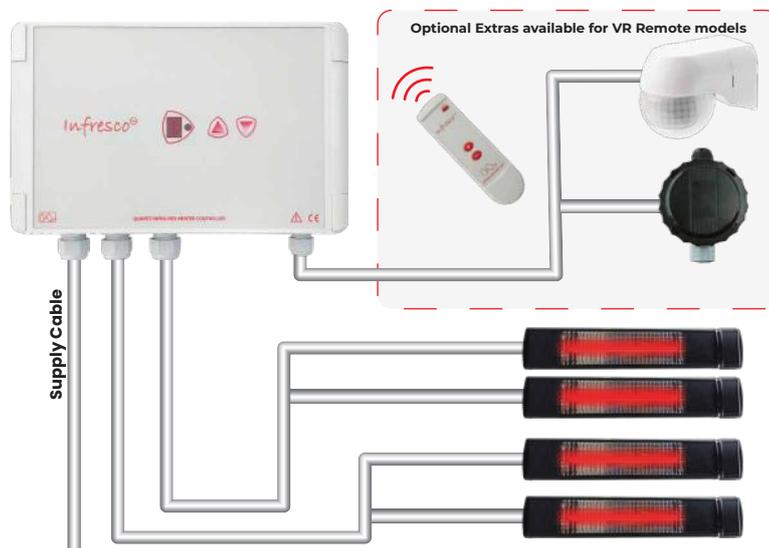
Infresco-S Protect Soft-Start
Heater Lamp Life Extender

The Infresco-S Protect Soft-Start is an intelligent, microcontroller-based controller designed to protect and extend the life of quartz infrared heater lamps. By combining soft-start power delivery with zero-voltage switching, it significantly reduces inrush current—helping lamps last up to 30% longer while improving overall system reliability.

Easy to install and IP65-rated for durability, the Infresco-S provides efficient, dependable operation in both indoor and outdoor environments.

4kW *SKU: A86602*

6kW *SKU: A86391*

★ KEY FEATURES

· Extends heater lamp life by up to 30%
· Soft-start and zero-voltage switching reduce electrical stress
· Supports multiple lamp configurations (model dependent)
· LED indicators for power and heating status
· Simple installation with robust IP65 enclosure
· Designed for reliable commercial and industrial use

✿ TECHNICAL HIGHLIGHTS

· **Supply Voltage:** 230V AC ±10% @ 50/60Hz
· **Maximum Load:** 4kW or 6kW (model dependent)
· **Max Operating Current:** Up to 25A (model dependent)
· **Power Consumption:** 50mA
· **Operating Temperature:** -20°C to +30°C / +40°C (model dependent)

⠿ APPLICATIONS

Ideal for indoor and outdoor commercial and industrial environments including restaurants, smoking shelters, workshops, warehouses, pub gardens, and general areas where reliable infrared heating and extended lamp life are essential.

INFRESCO-S SOFT-START: WHY IT'S ESSENTIAL FOR INFRARED HEATING

Infrared heaters are ideal for hospitality terraces, warehouses, and industrial spaces, but high startup current can cause breaker trips, lamp failure, and electrical stress.

Infresco-S Protect Soft-Start controllers gradually ramp up power and use zero-voltage switching to:
· Extend heater lamp life by up to 30%
· Prevent nuisance trips and blown fuses
· Reduce maintenance costs and downtime

Investing in Infresco-S ensures reliable, cost-effective infrared heating for commercial and industrial environments.
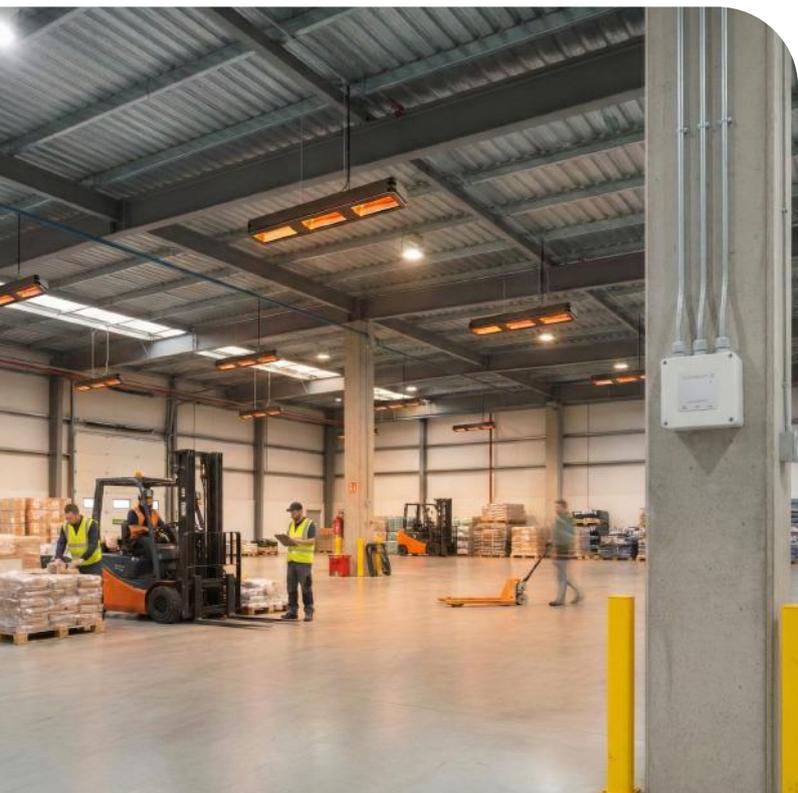
Infresco-VR Step & Dimmer Switch
Ideal for small single-zone heating areas

Infresco variable controllers provide precise, dependable power regulation for infrared heaters and compatible lighting systems. Designed for smooth performance, improved comfort, and enhanced energy efficiency, they reduce electrical stress through soft-start technology—helping extend lamp life by up to 30%.

Available in compact 1.5kW step or smooth dimming models, or a robust 3kW phase-angle regulator with integrated RFI suppression, these controllers deliver reliable manual heat control across commercial, industrial, and outdoor environments.

1.5kW *SKU: A86711 (Smooth Dimmer) A86710 (Step Switch)*

3kW *SKU: A86712-UA*

★ KEY FEATURES

- Precise manual heat control for infrared heaters and lighting
- Available as smooth variable control or stepped output regulation
- Soft-start technology helps extend heater lamp life
- Robust, user-friendly manual operation
- RFI suppression for stable, EMC-compliant performance (3kW model)
- Durable enclosures for reliable long-term operation
- Suitable for indoor and outdoor installations (1.5kW model) and only indoor (3kW model)

⚙ TECHNICAL HIGHLIGHTS

- **Supply Voltage:** 230V AC ±10% (model dependent)
- **Power Ratings:** 1.5kW or 3kW maximum load
- **Output Control:**
  - Smooth variable 0–100% adjustment, or
  - Stepped output (25% / 50% / 75% / 100%)
- **Load Rating (1.5kW):** 6.5A max @ 230V AC
- Phase-Angle Regulation with RFI Suppression (3kW model)
- **Operating Temperature:** -20°C to 50°C (A86711, A86710) and 0°C to 65°C (A86712-UA)

⠿ APPLICATIONS

Ideal for restaurants, terraces, smoking shelters, workshops, warehouses, and small single-zone heating areas where reliable, precise manual control of infrared heating is required.

More info:
https://bit.ly/3ZTb7iw

Infresco-MZ Multi-Zone Power Hub

3-Channel Industrial Heater Controller | 3 × 6kW Soft-Start

The Infresco-MZ Multi-Zone Power Hub is a heavy-duty industrial controller designed for precise, independent regulation of multiple infrared heating zones from a single unit. Featuring three fully isolated 6kW channels, it delivers accurate proportional power control across large installations while managing high inrush currents to extend lamp life and maintain system stability.

Engineered for demanding environments, the Infresco-MZ combines flexible control options with integrated protection and robust industrial performance.

18kW   *SKU: A418307, A418308*

Designed for use with our **HMI and D/A units,** these controllers can be used in tandem with each other for effortless control capability. Alternatively, a simple DC signal can be used too to control each phase.

★ KEY FEATURES

- Three independent 6kW channels for multi-zone heating control
- Adjustable soft-start (1–30 seconds) to reduce inrush current and equipment wear
- Flexible control inputs — DC signal, 5kΩ potentiometer, or HMI interface
- Single-phase or three-phase supply compatibility
- Integrated protection including EMC filtering, RC snubbers, and thermal trip safeguards
- Designed for reliable operation in demanding industrial environments

✿ TECHNICAL HIGHLIGHTS

- **Supply Voltage:** 230V / 415V AC RMS ±10%
- **Channel Capacity:** 6kW per channel (18kW total system capability)
- **Max Operating Current:** 30A per channel, 80A total
- **Operating Temperature:** Up to 60°C

▓ APPLICATIONS

Ideal for large infrared heating arrays, industrial heater battery systems, multi-zone commercial or industrial installations, outdoor heating networks, and single- or three-phase high-power heating environments requiring precise zone control.

INFRESCO CONTROLLER - INFRARED HEATING LAMP ZONES DIAGRAM

Typical Load - 4x 1500W Infrared Heater Lamps per zone
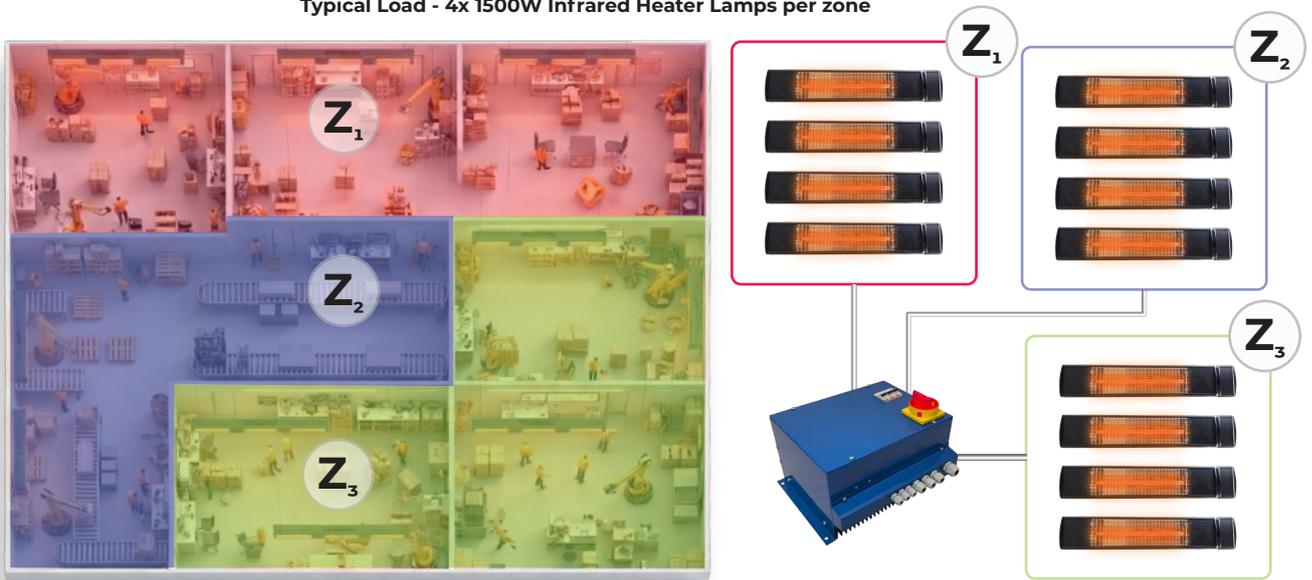
Infresco Cabinet Series
All-in-One Power Control Solutions

The Infresco Cabinet Series provides fully integrated, turnkey power-control solutions for infrared heating and resistive load management. Designed for reliability, flexibility, and fast installation, each cabinet houses all essential components within a single robust enclosure — combining power distribution, control electronics, protection systems, and signal interfacing in one complete unit.

Engineered for both standard and bespoke applications, Infresco cabinets deliver precise, scalable control for everything from single heating zones to large multi-phase industrial installations.

★ KEY FEATURES

· Supports single-phase or three-phase supply with flexible load configurations up to 54kW and beyond
· Compatible with multiple control inputs:
· manual potentiometer, 0–5VDC, 0–10VDC, 0–20mA, 4–20mA
· with optional HMI, thermostat, or 24/7 timer integration
· Flexible firing methods: burst-fire, phase-angle, or combined control, plus soft-start for reduced load stress
· Built-in RFI filtering for cleaner power and reduced electrical interference
· All-in-one enclosure simplifies installation — wiring, protection, control, and distribution pre-integrated
· Configurable for single-zone, multi-zone, or multi-phase systems
· Designed for standard or fully bespoke industrial solutions

✿ TECHNICAL HIGHLIGHTS

· **Supply Voltage:** 240V–415V+ (custom configurations available)
· **Load Capacity:** 12kW to 54kW+ (custom configurations available)

> Custom cabinet designs can be engineered to meet specific project requirements — from simple control systems to large-scale industrial installations.

⸬ APPLICATIONS

Ideal for infrared heater installations in outdoor spaces, warehouses, and workshops, as well as high-current industrial heating or resistive load applications such as kilns, ovens, and process heating zones. Suitable for commercial heating systems requiring robust centralised control and scalable multi-zone or multi-phase power management.

CONVECTION HEATING VS INFRESCO — WHAT'S THE DIFFERENCE?

Traditional convection heating warms the air within a space. In large buildings, this often leads to wasted energy because heated air rises upwards, gathering near the ceiling instead of staying where people actually need warmth. Air movement can easily carry this heat away, and temperature fluctuations — such as opening roller shutter doors — can quickly reduce effectiveness. Poor insulation makes the problem worse, allowing heat to escape through walls and roofing.

Infresco infrared heating works in a completely different way. Instead of heating the air, it delivers direct, localised warmth exactly where it's required. The heat stays focused at occupant level rather than drifting upwards or being lost through air circulation. Because of this targeted approach, far less energy is wasted — making Infresco a highly efficient and cost-effective heating solution for large or open environments.

Partner with United Automation for Your Next Project
More info: https://bit.ly/4raUkmv
Phone: 0044 (0) 1704-516-501
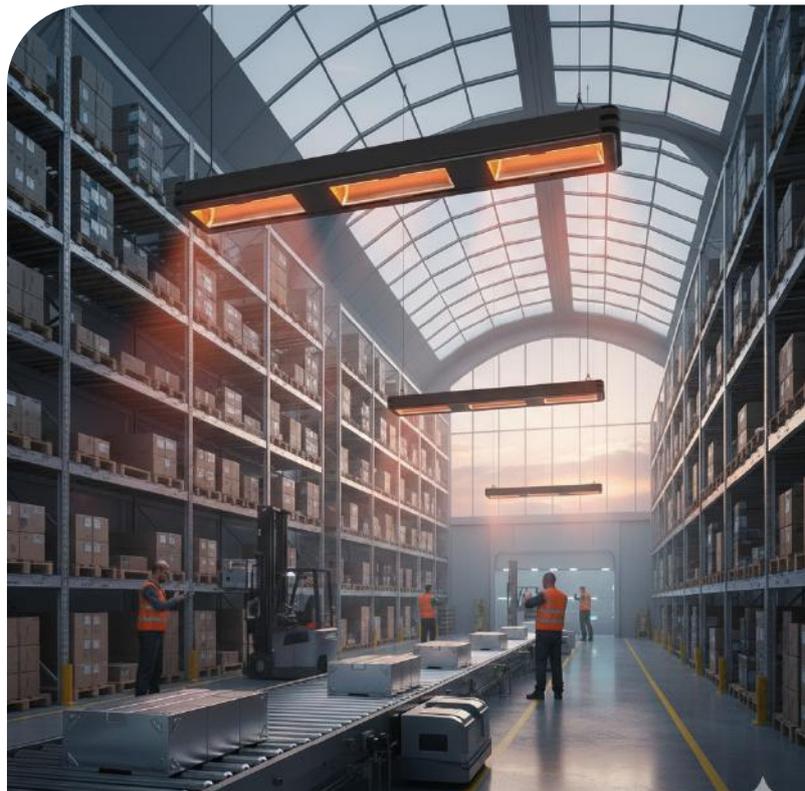
Infrared Heater Lamps

Focused Warmth. Instant Comfort. Maximum Efficiency

Infresco infrared heater lamps use high-quality gold and quartz elements to deliver powerful, instant heat exactly where it's needed. Unlike conventional convection heating that wastes energy warming the surrounding air, infrared technology emits focused electromagnetic waves that transfer heat directly to people and objects — providing immediate, deep, and efficient warmth.

Engineered for performance and durability, the range covers everything from sleek outdoor comfort heaters to heavy-duty industrial heating systems, ensuring optimal thermal efficiency in any environment.

Why Infrared Heating?

- Instant warmth with no pre-heat time
- High energy efficiency — heat only where needed
- Consistent comfort unaffected by draughts or air movement
- Low maintenance, long-life lamp technology
- Durable construction for indoor, outdoor, and industrial use

The Efficiency Gap
Convection heaters vs Infrared heaters
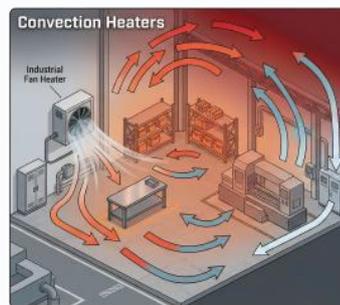
Convection heating is often inefficient in large industrial spaces because warm air rises into unusable ceiling voids, leading to significant energy waste and rapid heat loss through open loading bays.

In contrast, infrared heating provides highly efficient zone heating by directly warming workers and surfaces, which can **reduce energy consumption** by 20% to 50% since the rays are unaffected by drafts.

Designed for Every Heating Environment

Infresco offers a comprehensive selection of infrared lamps and heating fixtures tailored to specific power requirements, installation types, and operating conditions.

ADVANCED HEATING TECHNOLOGY

- Gold halogen and quartz elements for rapid heat delivery.
- High thermal efficiency with targeted energy transfer.
- Long operational life and reliable performance.

INDOOR & OUTDOOR COMFORT HEATING

- Stylish wall-mounted heaters up to 2kW
- Long-life gold lamps rated up to 5,000 hours.
- Dimmable output for precise comfort control.
- High IPX5 weatherproof protection
- Ideal for terraces, hospitality venues, and covered outdoor spaces.
- Selected models with integrated Bluetooth audio for enhanced ambience.

INDUSTRIAL & LARGE-AREA HEATING

- Heavy-duty heaters from 3kW to 18kW
- Robust IP65-rated enclosures for dust and water protection.
- Designed for warehouses, factories, hangars, and large workspaces.
- 3-phase power options for high-capacity heating coverage.
- Reliable performance in demanding environments.

High-performance infrared heating delivers efficient, responsive warmth wherever comfort, productivity, and energy control matter most.

Outdoor & Hospitality Infrared Heating
Happier Customers & Lower Cost.

Designed for comfort, ambience, and reliability, our outdoor infrared heating range delivers instant radiant warmth exactly where it is needed. Using advanced gold lamp technology and durable weatherproof construction, these heaters provide efficient performance in hospitality, commercial, and semi-outdoor environments — regardless of weather conditions.

1.5KW INFRARED HEATER LAMP | IPX5 WEATHERPROOF (NO REMOTE)

1.5kW *SKU: A-HL-E72C-1*

Efficient outdoor heating with instant, directional warmth powered by advanced gold lamp technology. A durable aluminium housing and IPX5 weatherproof protection ensure dependable performance in exposed environments. With a long 5000-hour lamp life, this heater delivers reliable comfort with minimal maintenance.

★ KEY FEATURES
- Instant infrared heating — efficient and environmentally friendly
- IPX5 weatherproof protection against rain and snow
- Long-life gold lamp element (5000 hours)
- Simple wall-mounted installation with included bracket
- Sleek, durable aluminium construction

✿ TECHNICAL HIGHLIGHTS
- **Voltage:** 220–240V AC | Frequency: 50/60Hz
- **Power Output:** 1.5kW
- **Mounting:** Wall bracket included
- **Dimensions:** 540 × 100 × 80 mm
- **Weight:** 2 kg
- **IP Rating:** IPX5

*Our **Infresco range is compatible with this heater**, enhancing temperature control and extending lamp life by up to 30%.

2KW DIMMABLE INFRARED HEATER LAMP | REMOTE CONTROL

2kW *SKU: A-HL-E72C-R2-RM1-B*

A versatile wall-mounted heater delivering powerful radiant warmth with adjustable comfort levels. The included remote control provides three heat settings, allowing precise temperature management for changing conditions. Built with a durable gold lamp element and weather-resistant housing for dependable outdoor use.

★ KEY FEATURES
- Remote dimming: 1000W / 1500W / 2000W heat settings
- IPX5 weatherproof outdoor design
- Long-life gold lamp element (5000 hours)
- Easy wall-mounted installation
- Durable aluminium housing

✿ TECHNICAL HIGHLIGHTS
- **Input Voltage:** 220–240V AC | 50/60Hz
- **Power Output:** 2000W
- **Heating Element:** Gold infrared lamp
- **Lamp Life:** 5000 hours
- **Dimensions:** 65.5 × 10 × 8 cm
- **Weight:** 2.65 kg

2000W INFRARED HEATER WITH SPEAKERS | DIMMABLE REMOTE | ALL-IN-ONE OUTDOOR UNIT

2kW *A-HL-E72C-R2-RM2-BS*

A multifunctional heating solution combining powerful radiant warmth with integrated audio. Designed to enhance comfort and ambience simultaneously, this unit delivers adjustable heat alongside built-in speakers for music or announcements — perfect for hospitality and entertainment settings.

★ KEY FEATURES
- Remote-controlled dimming: 1000W / 1500W / 2000W heat settings
- Integrated speakers for enhanced outdoor ambience
- Weatherproof aluminium housing (IPX5)
- Energy-efficient gold lamp with 5000-hour lifespan
- Easy wall-mounted installation

✿ TECHNICAL HIGHLIGHTS
- **Input Voltage:** 220–240V AC | 50/60Hz
- **Power Output:** 2000W
- **Heating Element:** Gold infrared lamp
- **Remote Dimming:** 3 heat levels
- **IP Rating:** IPX5
- **Dimensions:** 74 × 10 × 8 cm
- **Weight:** 3.3 kg

⠿ APPLICATIONS
These heaters are ideal for providing instant, efficient warmth in both indoor and outdoor commercial, hospitality, and small industrial environments. Their robust, IPX5-rated design is perfect for terraces, restaurants, and smoking shelters, as well as workshops, garages and small warehouses. With options for dimmable remotes and integrated speakers, they offer a durable, all-in-one solution for professional climate control and ambience.

Industrial Infrared Heater Range
Single-Phase Systems, Horizontal & Vertical Configurations

Engineered for demanding commercial and industrial environments, this high-performance infrared heater range delivers powerful, instant radiant heat exactly where it is needed. Using advanced short-wave infrared technology and ultra-low-glare lamps, these heaters provide highly efficient, targeted warmth with minimal light emission.

Designed for single-phase operation and protected by rugged IP65-rated aluminium housings, each model offers reliable performance in challenging indoor and semi-outdoor environments. By heating people and surfaces directly — rather than wasting energy warming the air — these systems can achieve energy savings of up to 90% compared with conventional convection heating.

Available in horizontal and vertical configurations, the range provides flexible installation and optimised coverage for a wide variety of industrial heating applications.

★ Key Benefits

HIGH PERFORMANCE
Features instant radiant heat and ultra-low-glare lamps that heat objects directly, potentially reducing energy use by 90%.

ROBUST BUILD
Constructed with IP65-rated anodised aluminium, ensuring the units are dust-tight and water-resistant.

SIMPLE INTEGRATION
Designed for single-phase electrical supply with flexible mounting options (wall, ceiling, or angled).

SMART & RELIABLE
Compatible with zoning controllers for enhanced efficiency and backed by a 2-year manufacturer warranty on the heater body.

3kW INDUSTRIAL INFRARED HEATERS (HORIZONTAL & VERTICAL)

3kW

SKU: A903670-15, A903676

Designed for efficient, targeted heating in smaller industrial and commercial spaces, the 3kW model delivers powerful radiant warmth with compact, versatile installation.

✿ TECHNICAL HIGHLIGHTS
- **Voltage:** 220–240V AC (Single Phase)
- **Power Output:** 3kW (2 × 1.5kW lamps)
- **Coverage Area:**
  - **Horizontal:** 13.2 m²
  - **Vertical:** Up to 30 m²
- **Current:** 13A
- **IP Rating:** IP65
- **Minimum Mounting Height:** 2.5 m
- **Housing:** Anodised aluminium
- **Dimensions:**
  - Horizontal: 255 × 153 × 857 mm
  - Vertical: 390 × 111 × 422 mm

4kW INDUSTRIAL INFRARED HEATER (HORIZONTAL & VERTICAL)

4kW

SKU: A903670, A903675

Providing increased output and wider coverage, the 4kW model is ideal for medium-sized industrial areas requiring consistent, high-intensity radiant heat.

✿ TECHNICAL HIGHLIGHTS
- **Voltage:** 220–240V AC (Single Phase)
- **Power Output:** 4kW (2 × 2kW lamps)
- **Coverage Area:**
  - Horizontal: 19.14 m²
  - Vertical: Up to 35 m²
- **Current:** 18A
- **IP Rating:** IP65
- **Minimum Mounting Height:** 2.5 m
- **Housing:** Anodised aluminium
- **Dimensions:**
  - **Horizontal:** 255 × 153 × 857 mm
  - **Vertical:** 390 × 111 × 422 mm

4.5kW INDUSTRIAL INFRARED HEATER (HORIZONTAL & VERTICAL)


Horizontal

Vertical

4.5kW

SKU: A903677, A903678

Built for demanding industrial environments, the 4.5kW model delivers higher heat intensity and expanded coverage, making it ideal for large open or draught-prone spaces.

✿ TECHNICAL HIGHLIGHTS

- **Voltage:** 220–240V AC (Single Phase)
- **Power Output:** 4.5kW (3 × 1.5kW lamps)
- **Coverage Area:**
   - **Horizontal:** 122.12 m²
   - **Vertical:** Up to 40 m²
- **Current:** 20A

- **IP Rating:** IP65
- **Minimum Mounting Height:** 3 m
- **Housing:** Anodised aluminium
- **Dimensions:**
   - **Horizontal:** 255 × 184 × 1292 mm
   - **Vertical:** 422 × 111 × 525 mm

6kW INDUSTRIAL INFRARED HEATER (HORIZONTAL & VERTICAL)

Horizontal

Vertical
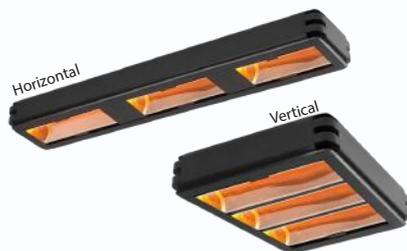
6kW

SKU: A903673, A903674

The highest-output model in the range, designed for large industrial environments and demanding heating requirements. Provides powerful radiant coverage with exceptional efficiency.

✿ TECHNICAL HIGHLIGHTS

- **Voltage:** 220–240V AC (Single Phase)
- **Power Output:** 6kW (3 × 2kW lamps)
- **Coverage Area:**
   - **Horizontal:** Up to 25.5m²
   - **Vertical:** Up to 44 m²
- **Current:** 20A

- **IP Rating:** IP65
- **Minimum Mounting Height:** 3.5 m
- **Housing:** Anodised aluminium
- **Dimensions:**
   - **Horizontal:** 255 × 184 × 1292 mm
   - **Vertical:** 422 × 111 × 525 mm

⠿ Ideal For

Warehouses and logistics hubs, production lines and assembly areas, workshops and maintenance bays, retail loading areas, indoor sports facilities, agricultural buildings, semi-outdoor commercial spaces, targeted workstation heating and more.

Performance Where It Matters

Industrial environments often lose heat rapidly due to air movement, large volumes, or open access points. Short-wave infrared technology overcomes these challenges by delivering heat directly to people, equipment, and surfaces — providing immediate comfort, improved productivity, and reduced operating costs.

Our Infresco range is compatible with those heaters, enhancing temperature control and extending lamp life by up to 30%.

Large-Scale Industrial Heating
Three-Phase High-Output Systems.

The 9kW–18kW three-phase infrared heater range is designed for large industrial and commercial environments requiring powerful, energy-efficient heating. Using advanced short-wave infrared technology with ultra-low-glare lamps, these systems deliver instant, targeted radiant warmth directly to people and surfaces — not the surrounding air.

Built with durable IP65-rated anodised aluminium housings and balanced three-phase operation, they provide reliable performance, wide coverage, and energy savings of up to 90% compared to conventional heating systems.

★ Key Benefits

HIGH-OUTPUT EFFICIENCY
Optimised for large-scale three-phase power, delivering up to 90% energy savings compared to traditional gas or convection systems.

INSTANT & DISCREET HEAT
Utilises short-wave radiant technology for immediate warmth with ultra-low-glare lamps, heating surfaces and people without preheating the air.
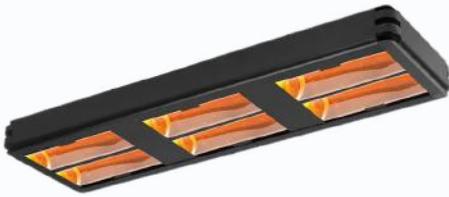
RUGGED INDUSTRIAL BUILD
Features an IP65-rated anodised aluminium housing, ensuring the unit is fully dust-tight and water-resistant for harsh environments.

VERSATILE & RELIABLE
Designed for flexible wall or ceiling mounting in high-ceiling zones, backed by a long-life service design and a 2-year manufacturer warranty.

9kW & 12kW INDUSTRIAL INFRARED HEATER | 3 - PHASE

High-capacity radiant heating for large commercial and industrial spaces. Multi-lamp configuration ensures stable, wide-area coverage with exceptional efficiency.

9kW **12kW**

SKU: A903671-15, A903671

⚙ TECHNICAL HIGHLIGHTS
- Voltage: 220–240V AC
- Power Output:
  - 9 kW (6 × 1.5kW lamps)
  - 12kW (6 × 2kW lamps)
- Coverage:
  - 9kW: 43.65 m²
  - 12kW 58.3m²
- Current per Phase:
  - 9 kW: 14A
  - 12kW: 18A
- IP Rating: IP65
- Dimensions: 390 × 184 × 1292 mm
- Mounting Height Minimum: 4 m
- Housing: Anodised aluminium

13.5kW & 18kW INDUSTRIAL INFRARED HEATER | THREE-PHASE

Maximum-capacity industrial heating for expansive environments requiring powerful, consistent radiant warmth. Designed for heavy-duty operation and wide coverage.

13.5kW **18kW**

SKU: A903672-15, A903672

⚙ TECHNICAL HIGHLIGHTS
- Voltage: 220–240V AC
- Power Output:
  - 13.5kW (9 × 1.5kW lamps)
  - 18 kW (9 × 2kW lamps)
- Coverage:
  - 13.5kW: 64 m²
  - 18kW: 85m²
- Current per Phase:
  - 13.5kW: 19.5A
  - 18 kW: 26A
- IP Rating: IP65
- Dimensions: 525 × 111 × 1292 mm
- Mounting Height Minimum: 5 m
- Housing: Anodised aluminium

⚎ Ideal For
Warehouses, logistics hubs, manufacturing plants, sports halls, agricultural buildings, exhibition centres, and large commercial facilities requiring controllable, energy-efficient zone heating at scale.

Industrial & Commercial Infrared Heaters — Comparison Table

How many heaters can be connected to each Infresco controller?

Model / Power	Infresco-T Touch Timer 4kW	6kW	Infresco-P Occupancy Sensor 4kW	6kW	Infresco-S Protect Soft-Start 4kW	6kW	Infresco-VR Step / Dimmer Switch 1.5kW	Variable Dimmer (Manual) 4kW	6kW	Variable Dimmer (Remote) 4kW	6kW	Variable Dimmer (3-Phase) 1-Channel 1x18kW* 18kW	Infresco-MZ Multi-Zone Power Hub (3-Phase) 3-Channel 3x6kW 18kW
1.5kW Heater (No Remote)	2	4	2	4	2	4	1	2	4	2	4	12	12
3kW Industrial Heater (Horizontal)	1	2	1	2	1	2		1	2	1	2	6	6
3kW Industrial Heater (Vertical)	1	2	1	2	1	2		1	2	1	2	6	6
4kW Industrial Heater (Horizontal)	1	1	1	1	1	1		1	1	1	1	3	3
4kW Industrial Heater (Vertical)	1	1	1	1	1	1		1	1	1	1	3	3
4.5kW Industrial Heater (Horizontal)		1		1		1			1		1	3	3
4.5kW Industrial Heater (Vertical)		1		1		1			1		1	3	3
6kW Industrial Heater (Horizontal)		1		1		1			1		1	3	3
6kW Industrial Heater (Vertical)		1		1		1			1		1	3	3
9kW Industrial Heater												2	
12kW Industrial Heater												1	
13.5kW Industrial Heater												1	
18kW Industrial Heater												1	

*Loads must be balance

Performance Data for Commercial and Industrial Infrared Heaters – Comparison Table

Model	Total Power	Lamps	Coverage Area	Phase Supply (220–240V AC)	Current per Phase	Dimensions (W×H×L) mm	Weight Kg.	IP Rating	Manufacturer warranty (Lamp not Covered)
1.5kW Heater (No Remote)	1.5kW	1 x 1.5kW	Up to 4 m²	Single Phase	6A	540 × 100 × 80	2	IPX5	✓
2kW Dimmable Heater (Remote)	2kW (Dimmable 1kW/1.5kW/2kW)	1 x 2kW	Up to 6 m²	Single Phase	8A	655 × 100 × 80	2.65	IPX5	✓
2kW Heater with Speakers and Remote	2kW (Dimmable 1kW/1.5kW/2kW)	1 x 2kW	Up to 6 m²	Single Phase	8A	740 × 100 × 80	3.3	IPX5	✓
3kW Industrial Heater (Horizontal)	3kW	2 × 1.5kW	13.2 m²	Single Phase	13A	255 × 153 × 857	6.1	IP65	✓
3kW Industrial Heater (Vertical)	3kW	2 × 1.5kW	Up to 30 m²	Single Phase	13A	390 × 111 × 422	6.1	IP65	✓
4kW Industrial Heater (Horizontal)	4kW	2 × 2kW	19.14 m²	Single Phase	18A	255 × 153 × 857	6.1	IP65	✓
4kW Industrial Heater (Vertical)	4kW	2 × 2kW	Up to 35 m²	Single Phase	18A	390 × 111 × 422	6.1	IP65	✓
4.5kW Industrial Heater (Horizontal)	4.5kW	3 × 1.5kW	22.12 m²	Single Phase	20A	255 × 184 × 1292	8.4	IP65	✓
4.5kW Industrial Heater (Vertical)	4.5kW	3 × 1.5kW	Up to 40 m²	Single Phase	20A	422 × 111 × 525	8.4	IP65	✓
6kW Industrial Heater (Vertical)	6kW	3 × 2kW	Up to 44 m²	Single Phase	20A	422 × 111 × 525	8.4	IP65	✓
6kW Industrial Heater (Horizontal)	6kW	3 × 2kW	Up to 25.5 m²	Single Phase	20A	255 × 184 × 1292	8.4	IP65	✓
9kW Industrial Heater	9kW	6 × 1.5kW	43.65 m²	3-Phase	14A	390 × 184 × 1292	14	IP65	✓
12kW Industrial Heater	12kW	6 × 2kW	58.3 m²	3-Phase	18A	390 × 184 × 1292	14	IP65	✓
13.5kW Industrial Heater	13.5kW	9 × 1.5kW	64 m²	3-Phase	19.5A	525 × 111 × 1292	16	IP65	✓
18kW Industrial Heater	18kW	9 × 2kW	85 m²	3-Phase	26A	525 × 111 × 1292	16	IP65	✓

Infresco Infrared Heater Controller Specifications – Comparison Table

Model	Control Type / Key Feature	Max. Switching Capacity	Max. Operating Current	Supply Voltage	Lamp On-Time / Timer	Operating Temperature	IP Rating	Warranty 12 Months
Infresco-T Touch Timer 4kW (1-60 Min)	Automated Push Button Heater Switch, Soft-Start	4 kW	17A	230 V AC	1 to 60 Minutes	-20°C to 30°C	IP65	✓
Infresco-T Touch Timer 6kW (1-60 Min)	Automated Push Button Heater Switch, Soft-Start.	6 kW	25 A	230 V AC	1 to 60 Minutes	-20°C to 30°C	IP65	✓
Infresco-P Occupancy Sensor 4kW	PIR Sensor, Temperature Control (1–60°C set point)	4 kW	17A	230 V AC	5 minutes (Fixed)	-20°C to 40°C	IP65	✓
Infresco-P Occupancy Sensor 6kW	PIR Sensor, Temperature Control (5–25°C set point)	6 kW	25 A	230 V AC	1 to 60 Minutes (Adjustable)	-20°C to 40°C	IP65	✓
Infresco-VR Variable Dimmer 4kW (Manual)	10-step adjustable output, Soft-Start, Optional PIR/Temp	4 kW	17A	230 V AC	PIR 5 minutes (Fixed)	-20°C to 30°C	IP65	✓
Infresco-VR Variable Dimmer 6kW (Manual)	10-step adjustable output, Soft-Start, Optional PIR/Temp	6 kW	25 A	230 V AC	PIR 5 minutes (Fixed)	-20°C to 30°C	IP65	✓
Infresco-VR Variable Dimmer 4kW (Remote)	10-step variable control, Soft-Start, Optional PIR/Temp & Remote Control	4 kW	17A	230 V AC	PIR 5 minutes (Fixed)	-20°C to 30°C	IP65	✓
Infresco-VR Variable Dimmer 6kW (Remote)	10-step variable control, Soft-Start, Optional PIR/Temp & Remote Control	6 kW	25 A	230 V AC	PIR 5 minutes (Fixed)	-20°C to 30°C	IP65	✓
Infresco-S Protect Soft-Start 4kW	Soft-start technology reduces inrush current, extending lamp life.	4 kW	17A	230 V AC	-	-20°C to 40°C	IP65	✓
Infresco-S Protect Soft-Start 6kW	Simple on/off control, Controls	6 kW	25 A	230 V AC	-	-20°C to 30°C	IP65	✓
Infresco-VR Step Switch / Smooth Dimmer 1.5kW	Fully Variable 0–100% or 4-Step Control	1.5 kW	6.5 A	230 V AC	-	-20°C to 50°C	IP55	✓
Infresco-VR Variable Dimmer (3-Phase) 18kW	Fully Variable 0–100%	18kW 1-Channel 1x18kW	80A	230V AC (Three-Phase)	-	Maximum 60°C	IP20	✓
Infresco-MZ Multi-Zone Power Hub 18kW	3-channel control (3 × 6kW), Soft-Start.	18 kW (6kW per channel)	30 A (per channel), 80 A (total)	230 V/415 V AC (Single/Three-Phase)	-	Maximum 60°C	IP20	✓
Infresco Cabinet Series	Turnkey power control cabinet (custom/bespoke)	12 to 54 kW and More	Custom/ Bespoke	240 V–415 V (custom/bespoke)	Custom/ Bespoke	Custom/ Bespoke	Custom/ Bespoke	✓

*Don't see the exact solution your project requires? As specialists in bespoke engineering, we can design and build a custom system tailored to your specific commercial or industrial needs.
Contact Our Technical Team Today https://united-automation.com/services/

Bundles & Value

We frequently offer discounted bundles combining our most popular heaters and Infresco controllers. These bundles simplify ordering and ensure compatibility while offering cost savings. Check the **"Bundles & Sale"** section on our website for the latest savings on pre-configured, energy-efficient heating systems.

Need a Bespoke Product?

Is your heating requirement unique? Do you need a custom control cabinet, specialised power rating, or integration with an existing BMS (Building Management System)?

United Automation specialises in designing and manufacturing tailor-made control systems. Contact our expert team today to discuss how our decades of British engineering experience can deliver a robust, compliant, and perfectly calibrated solution for your specific needs.

Contact Our Technical Team Today https://united-automation.com/services/

Take Control of Your Heating

Ready to upgrade to precise, efficient, and reliable infrared heating control?
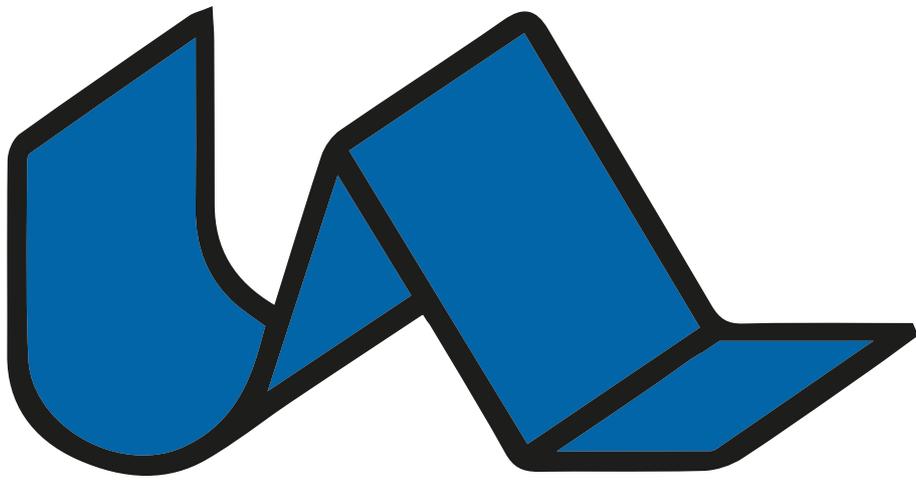
Contact Our Team Today

Department	Contact Detail
Sales & Technical Support	+44 (0) 1704 516 501
Email Enquiries	enquiries@united-automation.com
Visit Our Website	www.united-automation.com

UNITED AUTOMATION LTD

B M F House, Southport Business Park, Wight Moss Way,

Southport, PR8 4HQ, United Kingdom.

Southport, 2026

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automation

📍 United Automation Limited
B M F House
Southport Business Park
Wight Moss Way Southport
PR8 4HQ
United Kingdom

✉ enquiries@united-automation.com

📞 +44(0)1704 516501

🌐 www.united-automation.com

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