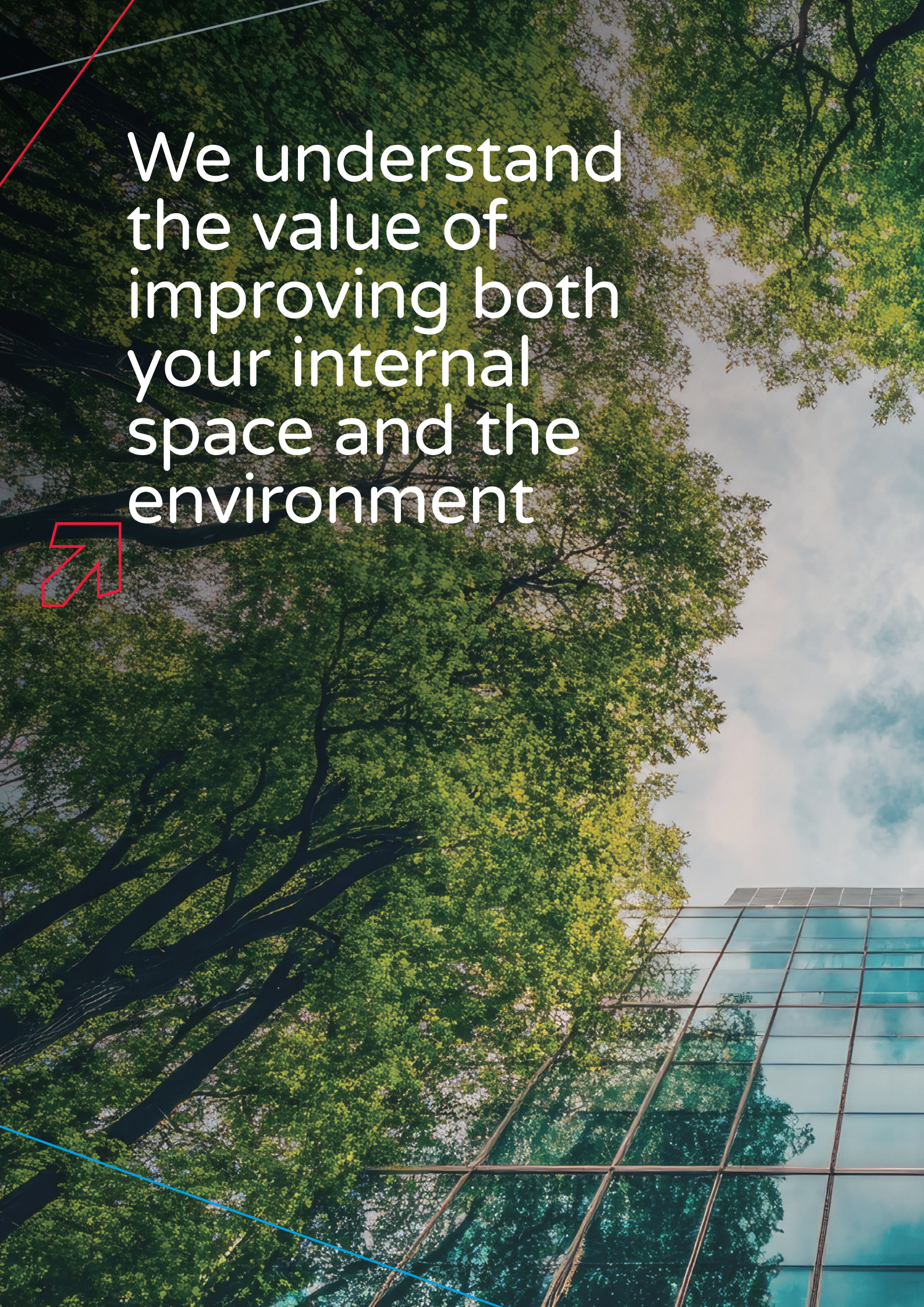




Enriching
Environments



spc-hvac.co.uk



We understand
the value of
improving both
your internal
space and the
environment



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About us

Based in Leicester, UK, SPC has been proudly manufacturing heating and cooling solutions for over 50 years.

With a strong foundation in British manufacturing and innovation, we produce high-quality products for both public and private sector projects.

Our Leicester-based factory enables us to maintain exceptional standards while supporting sustainable and reliable manufacturing practices. We take pride in delivering solutions that not only enhance internal environments but also reflect our commitment to environmental responsibility.

We are dedicated to supporting every stage of your project, from initial planning and design to on-site delivery. With a flexible and friendly approach, our team ensures that your unique needs are met with expertise and care.

Choosing SPC means partnering with a company that values quality, sustainability, and a legacy of British manufacturing excellence, a commitment recognised through our membership with Made in Britain.

Beyond our products, we also provide:

- Active BIM objects linked to product selection software
- Continuing Professional Development (CPD) courses
- Free self-selection software packages to support design and specification



"We offer the best possible solution for our customers and always aim to provide a professional and friendly service."



Part of the Carver Group

PART OF THE
CARVER
GROUP

SPC is proud to be part of the Carver Group, an eighth-generation, family-owned business with over 250 years of British manufacturing heritage.

Founded in Walsall in 1776 by Joseph Carver, the Carver Group has grown from its origins as a local leather-trade supplier into a diversified international manufacturing group focused principally on heating, ventilation and air conditioning (HVAC).

The Group remains family owned, with an eighth-generation Carver on its board, and is headquartered in the West Midlands, UK. It has representation in 50 countries, with branches in Germany, France, Ireland, the Netherlands, the United Kingdom and Canada.

SPC joined the Carver Group in 2024, joining a portfolio of specialist manufacturing businesses that develop, manufacture, supply, install and support products and solutions for building ventilation, air heating and cooling.

In June 2026, the Carver Group marked its 250th anniversary, one of Britain's oldest and most enduring family-owned manufacturing businesses, having traded continuously for a quarter of a millennium.

Our Businesses

The Carver Group's portfolio of specialist manufacturing and engineering businesses includes:

- **SPC** - heating and cooling solutions, manufactured in Leicester for over 50 years
- **Powrmatic** - industrial and commercial heating, ventilation and air-conditioning equipment
- **Thermoscreens** - air curtain technology, with sales in more than 50 countries
- **Biddle** - air diffusion technologies, including air curtains, air heaters, cassette units, heat recovery and fan coils
- **Applied Comfort** - Packaged Terminal Air Conditioners (PTACs) for commercial, industrial and institutional customers
- **Cooltherm** - design, supply, installation and servicing of air-conditioning systems and chillers
- **Carver Clamps** - clamps for the welding, fabrication and woodworking sectors, manufactured for over 50 years
- **Widney Leisure** - heating appliances for holiday homes

By choosing SPC, you're partnering with a company that manufactures in-house from its own Leicester factory, backed by the scale, heritage and resources of the Carver Group.



POWRMATIC

Thermoscreens

Biddle

Applied
Comfort

COOLTHERM

CARVER CLAMPS



WIDNEY

Our Dedication to Innovation and Sustainability

At SPC, we are dedicated to adapting our products to improve energy efficiency.

Commitment to Sustainability:

- We prioritise reducing energy consumption and minimising environmental impact.
- Our products are designed to support low water temperatures and integrate seamlessly with heat pump technology.

Tailored Solutions:

- Bespoke solutions are at the heart of what we do, ensuring products are tailored to meet specific project requirements.
- With in-house capabilities, including coil heat exchangers, enhanced and low-flow coil options, and EC motors as standard, we deliver flexibility and efficiency.

Versatile Product Range:

- From Belgravia Fan Convectors to Trench Heaters and Air Curtains, our products cater to a wide range of applications, including low water temperature systems.

Trusted Expertise:

- SPC is a recognised industry leader, dedicated to delivering innovative, high-quality heating and cooling solutions for all your needs.



Heating and Cooling Coils

Our heat exchanger coils are used whenever there is a need to heat, cool, or dehumidify the air – they are also used to recover heat.

Coils are found in ductwork and central plants in hospitals, shopping centres, offices, laboratories, and industrial processes.

Water Coils transfer heat energy between water and air efficiently. Heating coils warm air streams while cooling coils extract heat from air.

Steam Coils transfer heat from steam to air using the latent heat of vaporisation as steam condenses.

Refrigerant Coils work with condenser and DX evaporator systems to efficiently heat or cool air streams.

Runaround Coils are self-contained heat recovery systems with matched coil pairs connected in a continuous loop.

Casing options: Economy, standard, enclosed and unitary available across all coil types.

Also available: Electric Heater Batteries, Reclaim Plus Pump Packs, Replacement coil service, site surveys and an online coil self-selection software



Electric Heater Batteries

Electric heater batteries provide efficient heating for ducted systems and air handling units.

SPC's controllable heater batteries offer a turnkey solution, integrating power and control in a single package with advanced thyristor controls for continuous output modulation.

Key Features:

- Thyristor switching for continuous control
- High temperature safety cut-outs
- Flow proving switches
- 0-10V BMS interface
- Up to 8kW single phase, 135kW three phase
- Circular heaters up to 630mm diameter
- 321 stainless steel heating rods

Alongside the range of controllable electric heater batteries, SPC offer standard heater batteries. These are ideal for those instances where a controls specialist requires the bare heating elements in a rectangular or circular casing for incorporation into their own control system.

Belgravia Fan Convector

Belgravia Fan Convectors are ideal for heat pumps and low water temperature systems, offering quick, efficient heat distribution while saving wall space compared to radiators.

Fan Convectors are a popular choice in educational institutions, libraries, places of worship, and office buildings due to their low maintenance requirements.

Bespoke Solutions for Your Projects

Belgravia Fan Convectors are available in a variety of styles and configurations to meet the unique requirements of your environment and operating conditions:

- Exposed/cased
- Recessed/concealed
- Low-level floor/wall installation
- Horizontal for ceiling installation
- High-level wall-mounted installation, designed to blow air downward

With energy-efficient EC/DC fan motors, all our Fan Convectors help reduce running costs, saving users hundreds of pounds over a unit's lifetime.



Free Site Surveys

Our Area Sales Managers are available to provide free site surveys, helping to identify the best Fan Convectors for your space and guiding contractors through the selection process.

Belgravia Fan Convectors Range

Our Fan Convectors are available in several options, including Low Surface Temperature (LST) units, fresh air units, and units suitable for use with condensing boilers and heat pumps:

Belgravia Supreme

Designed with rounded edges and no sharp corners, this model is ideal for environments where safety, appearance, and robustness are critical.

Provides up to 16.3kW (outputs vary with model size and fan speed).

Belgravia Classic

The traditional design of the Belgravia Classic is available in multiple configurations and sizes.

Provides up to 16.3kW (outputs vary with model size and fan speed).

Belgravia Tilevector

This ceiling cassette heater (measuring just 210mm high) fits neatly within a standard suspended ceiling grid. Available in LPHW or electric heating options, it delivers immediate warmth to those below.

Provides up to 8.6kW (outputs vary with model size and fan speed)

Belgravia Tilevector Plus

A low water temperature version of the Tilevector for heat pumps and condensing boilers. Provides up to 3.5kW (Solo Plus) and 7.1kW (Duo Plus) heat output at standard operating conditions.

Full performance data for the Belgravia range is available via our Belgravia Fan Convector brochure.

CurveVector Cassette Heater

The CurveVector cassette heater provides efficient space heating with even air distribution through its innovative circular discharge grille.

Designed to fit in standard 600mm x 600mm suspended ceiling grids, the CurveVector delivers even warmth throughout the room whilst remaining virtually invisible, only the stylish circular grille is visible from below.

Key Benefits

- Space-saving design: recessed ceiling installation frees up valuable wall and floor space
- Even temperature distribution: 360° circular air discharge eliminates cold spots
- Energy efficient: low energy EC fan motor suitable for low water temperature systems and heat pump installations
- Quiet operation: ideal for noise-sensitive environments
- Quick installation: fits standard ceiling grids with an adjustable mounting system
- Low maintenance: user-friendly design with easy access



Applications

Ideally suited to schools, universities and colleges, offices and reception areas, retail shops and showrooms, libraries and museums, banks and public buildings, and any space where floor and wall areas must remain clear for furniture and fittings.

Technical Snapshot

The unit fits a standard 600mm x 600mm ceiling tile, with an overall unit height of 300mm above the ceiling and a weight of 32kg. It runs from a 230V single-phase supply, with a low energy EC fan motor available across three speed settings. Available with either a 2-row or 3-row heating coil, output varies with water temperature and fan speed selected, from around 2.9kW up to 8.4kW. Units feature an integral thermostatic valve limiting discharge air temperature to 65°C.

Remote thermostat and switch control options are available, including on/off, fan speed and summer/winter changeover, along with an adjustable low water temperature cut-out.



Thermatile Radiant Heating & Cooling Panels

Radiant heating and cooling panels provide cost-effective and efficient solutions for quickly heating or cooling spaces.

These panels are tailored to fit your environmental needs and are frequently used in offices, hospitals, and schools.

Why Choose Radiant Panels?

- Direct warmth to occupants and surfaces, not just the air
- Reduced energy consumption compared to traditional convection heating
- Quick response times for rapid temperature control
- Silent operation with no moving parts
- Ideal for spaces with high ceilings where warm air would typically rise
- Perfect for sensitive environments - no air movement means no circulation of dust or pollutants
- Compatible with low water temperature systems and heat pumps

Thermatile TEN-TWELVE

These water-based panels radiate heat from their surface to directly warm room surfaces and occupants. Manufactured to fit standard suspended ceiling grids, they offer flexibility for installation in plasterboard ceilings, angled on walls, or freely suspended from soffits.

Thermatile Electric Radiant Panels

Electric radiant panels offer an alternative solution when hot water is unavailable. Available in 600mm and 1200mm lengths with 600mm width, they deliver 250W or 500W output respectively. Installation is simple, requiring only a single-phase 230V supply. Mounting options include free hanging with aluminium frames or drop-in configuration for suspended ceilings.



"SPC's radiant panels are maintenance free."



iTwelve Industrial Radiant Panel

SPC's iTwelve Industrial Radiant Panel is a high-performance heating, and cooling when specified, solution offering increased outputs and reduced weights compared to conventional industrial panels.

The iTwelve takes advantage of its copper/aluminium construction to provide increased outputs and reduced weights compared to conventional industrial panels. A patented tube shape and collector design allow a minimal number of on-site connections and simple hanging options, combining to make this the most user-friendly and effective industrial panel on the market.

Panel arrangements are bespoke designed by SPC engineers to suit each customer's needs in terms of output rates, pressure drops, connection positions and parallel or series piping configurations, with options for same-end or opposite-end connections.

Product Description

- 'D' shaped 12mm copper tubes wrapped in aluminium saddles, adhered to a 1mm aluminium radiating panel, creating around 360° contact and minimising heat transfer resistance
- Downward surface powder coated RAL 9016; upper surface insulated to minimise upward convection
- Tubes joined via splitting/joining manifolds, terminating in 22mm copper tails, compatible with crimp fittings or flexible hoses with no welding required
- Panels are modular, up to 3m in length and available in widths of 300, 600, 900 or 1200mm, suspended using multi-suspension bars with carabiner clips

iTwelve Key Features

- Patented 'D' shaped 12mm copper tubes for superior heat transfer
- Copper/aluminium construction with increased outputs and reduced weight, around 5.5kg per 3m module versus 20kg for a steel equivalent
- Minimal on-site connections with simple hanging options, no rigid threaded bar required
- Bespoke designs tailored to customer requirements
- More efficient than competing copper/steel arrangements
- Can be used for cooling, with chilled water above dewpoint



CiRRUS Unit Heater

The CiRRUS Unit Heater is specially designed for installation in industrial or heavy commercial spaces such as factories, warehouses, storage spaces, distribution centres, garage spaces, and more.

These units provide a powerful jet of air angled into the occupied space, which can help provide local or overall heating of the work/storage area, thereby increasing your employees' comfort and productivity.

- Available in a range of sizes for a variety of mounting heights and heat outputs
- Horizontal units, wall-mounted with adjustable louvres angled to blow air down into the space
- Vertical units blowing directly down, suspended from the ceiling via rods
- White or black finish available as standard (any other RAL colour upon request)
- Supplied suitable for manual, automatic or BMS control
- Ideal for factories, storage spaces, distribution centres, garages etc.



AIRDOR Forcefield and iForce Industrial Air Curtains

Our range of Air Curtains are designed to provide powerful overhead heating, making them an efficient way to enhance comfort and save energy.

Air Curtains effectively counteract cold draughts from entering your building and prevent warm air from escaping outside, thereby maintaining a comfortable indoor temperature.

AIRDOR Forcefield

This powerful range of Air Curtains is specifically designed for applications requiring an invisible air barrier. With its unique features, AIRDOR Forcefield is ideal for public, commercial, or industrial building entrance areas.

Installation options

Our units can be installed over the doorway:

- Vertically or horizontally
- Wall or ceiling mounted
- Exposed or concealed

Heating options

Our LPHW Air Curtains provide air volumes of up to 640l/s and at standard operating conditions, can deliver up to 16kW.

Electric heated units provide up to 18kW of heat using three phase power. When using single phase power, the unit delivers up to 6kW of heat.

iForce Industrial Air Curtain

Our industrial Air Curtains are designed to protect doorways up to 6 metres in height and can be mounted either horizontally above the door or vertically along the sides of the door. We offer units in widths of 1.5m, 2.0m, and 2.5m.

iFORCE
INDUSTRIAL
AIR CURTAIN



Metropolitan Trench Heating and Cooling

Trench Heating and Cooling units are a solution to heat losses and gains through glazing. We offer natural and powered trench heating and cooling units that are energy-efficient and suitable for both commercial and domestic use.

Independently tested with a high output, our Trench Heating and Cooling range is extensive, offering a variety of heights, widths, lengths and finishes to fit your needs, all made in our Leicester factory.

Thoughtfully constructed to ensure the easiest installation possible, features include:

- A cover plate that hides connections and protects against dirt
- Height adjustable feet and telescopic supports
- Architectural grilles in a range of colours
- Edging trim that matches the finish and colour of the grille



Fan-assisted Electric Units

Electric Trench Heating units replace the traditional LTHW system with electrical 230V heat exchangers. These units feature ceramic PTC heating elements that can self-regulate and prevent overheating, ensuring that the unit cuts out before any hazards occur.

Natural Units

Installed beneath floor-to-ceiling windows, Metropolitan Natural Trench Heaters are suitable for use in offices, reception areas, hotels, restaurants and residential properties to eliminate draughts and enhance comfort.

Heating & Cooling Powered Units

Powered units can be specified when enhanced heat outputs are required. Low-power fans are whisper-quiet in operation and use EC/DC technology for enhanced controllability and energy efficiency.



Metropolitan HC Trench Heating and Cooling

Building on SPC's Metropolitan trench range, the next generation HC range is designed to match the increasing demands of the commercial sector for air-conditioning units fitted within the floor.

Trench units have traditionally been used to ensure buoyant warm air jets are thrown up alongside full-height glazing to counteract cold down-draughts. The benefits of unobtrusive heaters embedded in the floor have led to units increasingly being used for summertime cooling too, providing a year-round conditioning system.

Unlike traditional models, where fans were used just to assist natural buoyancy in heating mode, the Metropolitan HC range is fully fan-powered. Powerful fans blow air through the heat exchanger and ensure separation between the inlet and outlet, preventing short-circuiting and air bypassing the coil.

Fan-Assisted Performance

Units are available in heating-only versions, cooling-only versions, or four-pipe/two-pipe heating and cooling configurations. Fans are powered by direct-coupled brushless DC motors for the optimum in efficiency, noise generation and controllability, and the range is whisper-quiet in operation.

Flexible Configurations

The standard range covers four combinations of height and width to suit different requirements, with standard lengths available from 900mm up to 3000mm. While individual trench units are limited to 3m in length, they can be butted together in runs and piped up in parallel to precisely fill the available space, with roll-up grilles used to cover the entire installation length.

Grilles

As standard, units are finished with an attractive anodised aluminium roll-up grille. The standard satin anodised finish can be substituted for a range of 'Anolok' coloured bar finishes, giving a spectrum of bronze, gold and blue tints. For high-end applications, or where greater strength is required, the roll-up grille can be replaced by a linear stainless steel version.

Controls

The basic unit is suitable for control via a BMS/ supervisory system, controlling fan speed via a 0-10V signal and opening/closing valve actuators on the heating and cooling circuits. Manual fan speed switching and master/slave control of multiple units are also available.



Continuing Professional Development (CPD) Courses

Who better to learn from than the people who design and manufacture these heating and cooling solutions?



Since 1997, our CIBSE-approved CPD sessions have provided architects, mechanical consultants, and contractors with expert-led, practical training. Each session lasts approximately one hour.

Our CPD Courses

Decarbonisation of Industrial & Commercial Heating Systems

Explore how low-temperature systems and heat pumps can reduce carbon emissions, alongside embodied carbon considerations and funding options.

An Introduction to Coil Heat Exchangers

Understanding coil applications and how they transfer heat to or from airstreams. Explore heat transfer fluid options, engineering considerations for different applications, and key factors for performance and efficiency. Includes an overview of electric heater batteries.



Radiant Heating & Cooling – Fundamentals and Design Guide

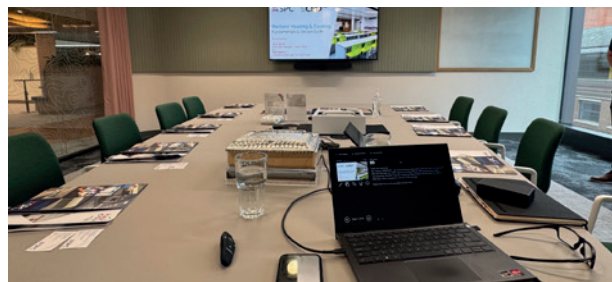
Discover the fundamentals of radiant systems, their benefits, and integration with modern solutions like heat pumps.

Design Considerations for Trench Heating

Gain insights into trench heating systems, including applications, energy-efficient controls, and installation considerations.

Why Choose SPC CPDs?

- Expert-Led: Delivered by experienced HVAC professionals
- Practical Focus: Insights to optimise your projects
- Proven History: Over 25 years of CPD excellence



Self-selection Software

SPC offers user-friendly, free software designed to make HVAC project planning effortless. With our tools, you can easily select, configure, and cost the perfect products for your needs. Simplify the specification process, ensure timely delivery, and gain confidence in your choices - all with just a simple registration.

Online Coil Selection Software

Easily select the most suitable heating and cooling coils for your application. Whether it's for water, refrigerant, or steam systems, our tool ensures quick and precise specifications tailored to your needs.

Features:

- Support for multiple system types: Water, Refrigerant, and Steam
- Fast and accurate coil specification
- Reduce delays and improve project timelines



Online Product Configurator

Customise SPC products to your exact project requirements using our versatile configurator. Tailor products with options for casing, controls, and output specifications.

Products included:

- Belgravia Fan Convectors: Classic, Supreme, and Tilevector models.
- CiRRUS Unit Heaters
- Forcefield Air Curtains
- iForce Industrial Air Curtains

Why Use SPC Software?

- Completely Free: No hidden costs, just simple registration
- Easy to Use: Simplifies complex specifications
- Time-Saving: Accelerates product selection and customisation
- Confidence in Choice: Ensures the right product for every application

Register today to access our free software tools and take the hassle out of HVAC project planning.

Active BIM Objects & ISO Certification

Active BIM Objects

SPC has enhanced Building Information Modelling (BIM) with our Active BIM Objects, linked directly to product selection programs. These tools provide project-specific data, including water temperatures, heat outputs, and air temperatures, which can seamlessly integrate into Revit models. This innovation not only saves time but also ensures compliance with BIM Level 2 standards.

Key Features:

- Fully compliant with BS 1192:4
- Created by an Autodesk-certified Engineer in Autodesk Revit 2024
- Provides precise project-level data for enhanced efficiency

For access to Active BIM Objects, please contact us for a quote or technical submittal. Alternatively, standard BIM objects are available for download from our website or BIMStore, but will require manual addition of project-specific data.

ISO 9001 Certification

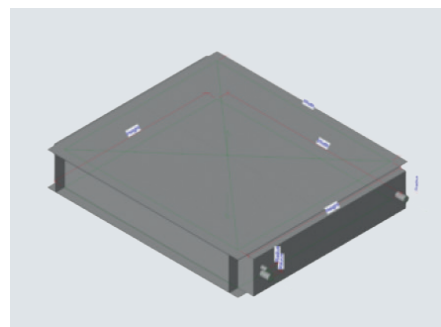
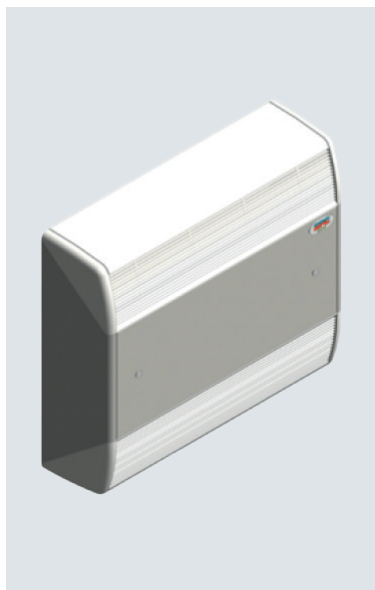
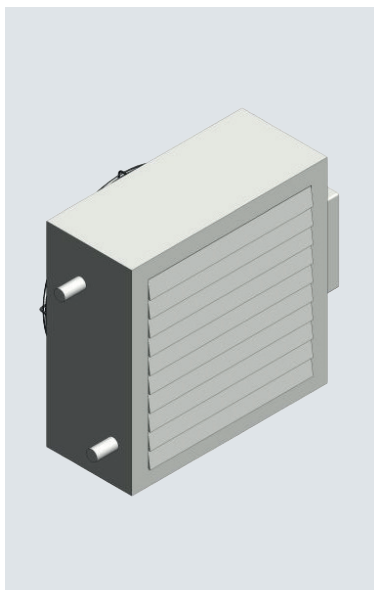
At SPC, quality is at the heart of everything we do. We are proud to hold the ISO 9001:2015 Quality Certification, an internationally recognised standard for excellence in quality management systems.

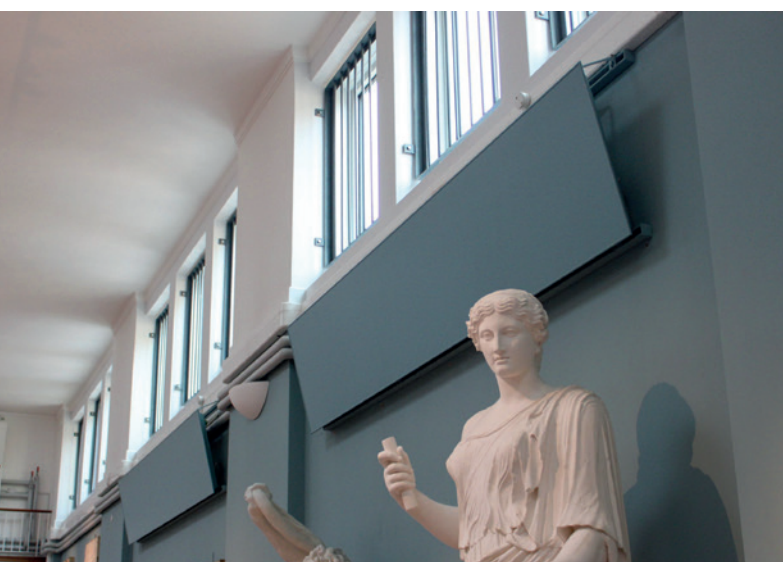
This accreditation demonstrates our commitment to:

- **Consistent Product Quality:** All products are manufactured in-house for maximum reliability
- **Continuous Improvement:** We are dedicated to refining our processes and exceeding customer expectations
- **End-to-End Support:** From planning and design to delivery, we work alongside our customers to ensure project success

Whether it's Heating & Cooling Coils, Fan Convectors, Radiant Panels, Trench Heating and cooling, or Unit Heaters, our rigorous quality standards ensure that every product meets and exceeds expectations.

By choosing SPC, you're partnering with a company committed to delivering innovative solutions backed by decades of expertise and ISO-certified quality assurance.







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