



Enriching
Environments



We understand
the difference
an improved
internal
environment
can make



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About us

Based in Leicester UK, SPC has been supplying heating and cooling products to the HVAC industry for over 50 years.

As a renowned supplier of high-quality products to both the public and private sectors, our extensive range of products includes:

- Heating & Cooling Coils
- Belgravia Fan Convectors
- Radiant Heating & Cooling Panels
- SPC Heat Cloud
- iTwenty Eight Industrial Radiant Panels
- CiRRUS Unit Heaters
- Air Curtains
- Trench Heating & Cooling
- Ultraviolet Air Sterilisation

As well as products, we also offer:

- Active BIM objects that are linked to product selection programs
- Continuing Professional Development (CPD) courses
- Free self-selection software packages

At SPC, we take pride in providing end-to-end project assistance to our customers, from the initial stages of planning and design to the final delivery of the products to the site.

We understand that every phase of the project is critical, and we are always available to offer our expertise and support throughout the process.

Our goal is to provide a bespoke and friendly service to each of our clients, and our flexible approach ensures that we cater to their unique needs and requirements.

By choosing SPC, you can rest assured that you are partnering with a company that is committed to delivering the highest standards of service and products.



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



Our Dedication to Innovation and Sustainability

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

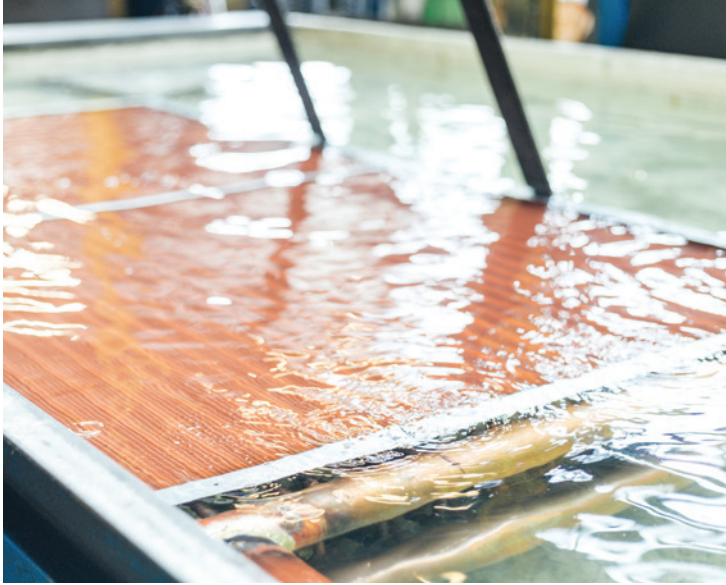
We understand the importance of reducing energy consumption and its impact on the environment, which is why we've made significant strides in improving our heating and cooling products. With a focus on low water temperatures and heat pumps, SPC is committed to providing our customers with innovative and sustainable products.

We pride ourselves on our ability to provide our customers with bespoke solutions tailored to their specific needs. With our in-house coil heat exchangers, enhanced coil and low-flow

coil options and EC motors as standard, we can offer a range of products suitable for a variety of applications, including low water temperature systems. Our Belgravia Fan Convectors, Trench Heaters, and Air Curtains are just a few examples of our dedication to innovation and sustainability. SPC Heat Cloud offers the residential market a progressive radiant product design for heating and cooling.

With SPC you are working with an industry leader committed to providing the best possible products for your heating and cooling 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 a variety of environments including hospitals, shopping centres, offices and laboratories. They also play a key part within industrial processes such as blast freezing, drying and material temperature control.

We offer a range of coil options that can be optimised to your needs:

Water coils transfer heat energy between water and air as quickly and efficiently as possible. Heating coils transfer energy from hot water to a stream of air and cooling coils extract energy from an air stream and add it to cold water.

Casing options: economy, standard, enclosed and unitary.

Steam coils are heat exchangers that transfer heat energy from steam to air as efficiently as possible. The heat energy comes from the latent heat of vapourisation of the steam as it changes phase from vapour to condensate.

Casing options: standard, enclosed and unitary.

Refrigerant coils transfer heat energy between the refrigerant and the air as quickly and efficiently as possible. Condenser coils transfer heat from the refrigerant to air as the refrigerant changes phase from vapour to liquid. DX evaporator coils transfer heat from the air into the refrigerant as it changes phase from liquid to vapour.

Casing options: standard, enclosed and unitary.

Runaround coils are self-contained heat recovery systems that consist of a matched pair of coil heat exchangers. The two coils are piped together in a continuous loop through which the heat-exchange medium (water or a water/anti-freeze mix) flows. A reclaim pump pack ensures that the medium flows between the two coils at the prescribed rate against the total system resistance.

Casing options: standard, enclosed and unitary.

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

Belgravia Fan Convectors

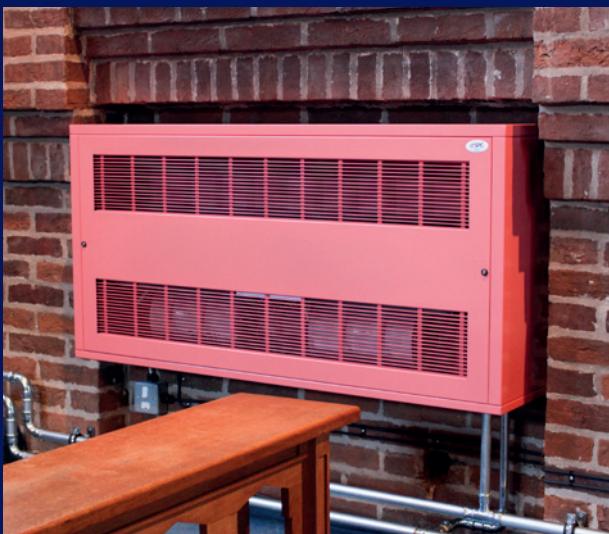
Belgravia Fan Convectors offer a simple and cost-effective solution to bring a room up to temperature quickly. With their ability to distribute heat rapidly and efficiently, they outperform underfloor heating and take up less wall space compared to radiators with the same output.

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

Belgravia Fan Convectors are available in a range of styles and configurations to meet the requirements of most environments and most operating conditions:

- Exposed/cased
- Recessed/concealed
- Low-level floor/wall installation
- Horizontal for ceiling installation
- High-level wall-mounted installation which blows air down.

All of our Fan Convectors use energy-efficient ECDC fan motors which reduce running costs, saving users £00s over a unit's lifetime.



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

Belgravia Supreme

With a rounded-edge design, the Belgravia Supreme has no sharp corners and can be found in environments where safety, appearance and robustness are imperative.

Provides up to 16.3kW heat output at standard operating conditions.

Belgravia Classic

The traditional design of the Belgravia Classic is available in many configurations and sizes. It provides up to 16.3kW heat output at standard operating conditions.

Belgravia Tilevector

This ceiling cassette heater (measuring 210mm high) fits within a standard suspended ceiling grid. Whether LPHW or electric heated, its airflow means it has the ability to bring immediate warmth to those below. Provides up to 9kW heat output at standard operating conditions.



For more information about our fan convectors and to download the product brochure and BIM objects please visit spc-hvac.co.uk

Radiant Heating and Cooling

Radiant heating and cooling panels are a vital component of SPC's product range, providing cost-effective and efficient solutions for heating up a room quickly.

Available in a number of styles, these panels can be tailored to fit your environmental needs. Frequently used in offices, hospitals and schools, SPC's radiant range requires little to no maintenance, with all products featuring wipe-clean surfaces.

Thermatile TEN-TWELVE Radiant Heating Panels

These panels radiate heat from their surface to directly warm room surfaces and the room's occupants. Manufactured to easily fit into a standard suspended ceiling grid, Thermatile TEN-TWELVE panels are flexible as they can also be fitted into plasterboard ceilings, angled on walls, and freely suspend from soffits.



"SPC's radiant panels are maintenance free."



Thermasail Radiant Conditioning Sails

These panels absorb radiant heat from both room surfaces and the people within that room. Free-hanging, they provide additional convective cooling. Shaped, sized and coloured to suit your environment, Thermasail panels can be perforated for sound absorption, making them perfect for office and educational environments.



For more information about radiant heating and cooling and to download the product brochure and BIM objects please visit spc-hvac.co.uk

SPC Heat Cloud

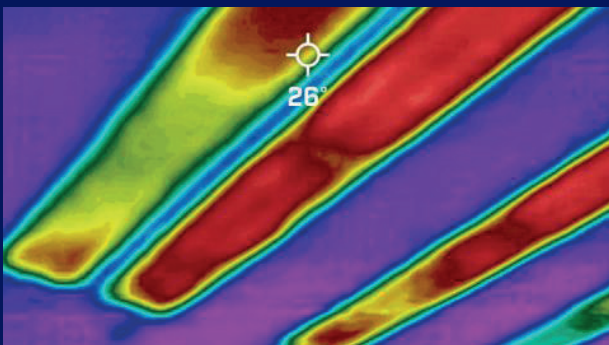
Heat Cloud is a high-tech radiant panel offering efficient heating performance from low water temperature systems along with low inertia and fast response times.

The radiant panels sit within the building's sub-structure, behind plasterboard ceilings or walls, without reducing the ceiling height or room dimensions and is invisible to the occupants. The product is simple to install, low weight, low water volume and totally recyclable.

How does Heat Cloud work?

The Heat Cloud panels are in direct contact with the plasterboard panels which become activated (heated) whenever hot water flows through the pipes of the Heat Cloud panel. The room facing surfaces of the plasterboard assume

a temperature above that of the people and objects in the space and transfer heat directly to these surfaces via radiant exchange. The space air is indirectly heated via contact with the warm surfaces.



For more information about SPC Heat Cloud
please visit www.heat-cloud.co.uk

iTwenty Eight Industrial Radiant Panels

The iTwenty Eight product has been installed in a number of locations around Europe and is widely considered to be one of the market-leading industrial panels.

SPC's iTwenty Eight Industrial Radiant Panels feature large bore waterways measuring 28mm x 1.5mm in thickness, along with header arrangements to split and join flow. These panels can be arranged into individual modules measuring up to six meters, allowing for extended panel runs with low-pressure drops while maintaining the same end flow and return pipes for runs of up to 70m.

- High-quality durable product with a reduced operating weight
- Proven reduction in energy consumption
- Completely pre-assembled
- Multi-module runs up to 70m joined on site with standard press fittings
- Same-end connections for reduced installation costs
- Can be used for heating & cooling



For more information about our iTwenty Eight Industrial Radiant Panel and to download the product brochure and BIM objects please visit spc-hvac.co.uk

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.



For more information about our CiRRUS Unit Heater and to download the product brochure and BIM objects please visit spc-hvac.co.uk

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

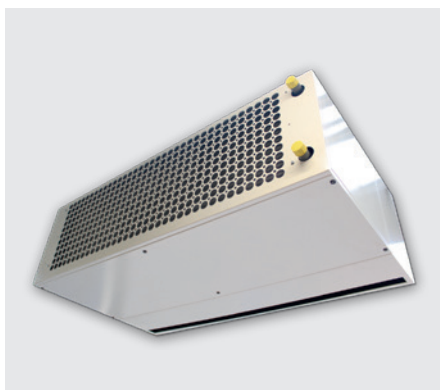
Our LPHW air curtains provide air volumes of up to 640l/s and at standard operating conditions, can deliver up to 16kW.

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



For more information about our air curtains and to download the product brochure and BIM objects please visit spc-hvac.co.uk

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.



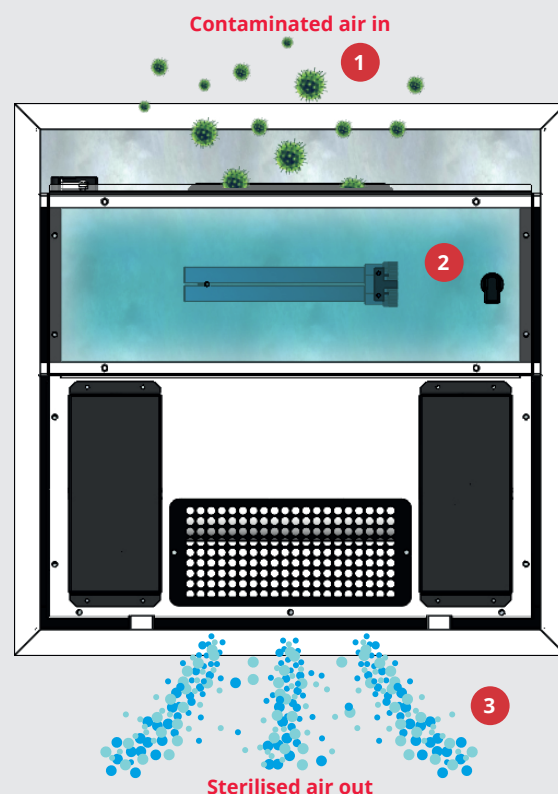
For more information about our trench heaters and to download the product brochure and BIM objects please visit spc-hvac.co.uk

BioGrid UV Air Steriliser

The BioGrid UV Air Steriliser is an air sterilisation unit that uses germicidal radiation to disrupt the nucleic acid of bacteria or viruses to render them incapable of reproduction. A 35W UV Philips lamp is used, which emits at a wavelength of 254nm, whilst generating no ozone, unlike competing units.

Installation of the BioGrid UV Air Steriliser unit will reduce the concentration of harmful viruses and bacteria, including airborne Covid, within a space without the need to leave windows permanently open and suffer high energy losses.

Typical applications include classrooms, office spaces, doctors' surgeries or any area which would benefit from increased sterilisation.



- 1 Contaminated air is drawn into the unit by the fan
- 2 The air is then sterilised, using germicidal radiation, inside the activation chamber to neutralise airborne bacteria and viruses
- 3 The sterilised air is then blown out of the unit into the area below

For more information about our BioGrid UV Air Steriliser and to download the product brochure and BIM objects please visit spc-hvac.co.uk

Accreditation, courses and self-selection software

At SPC, we believe that providing a physical product or solution is only one part of creating a truly enriching environment. That is why we offer support to our customers through our knowledgeable sales team, educational CPD courses and easy-to-use self-selection software.

Self-selection software

With our user-friendly software, you can easily and quickly select and cost the appropriate coils for your application. By utilising our self-selection tool, you can feel confident that you have chosen the right item.



Active BIM Objects

SPC have taken their Building Information Modelling (BIM) objects a stage further by linking them to product selection programs which give project-level data within the objects. This can then be inserted into your Revit model saving both time and effort when aiming to be BIM level 2 compliant.

Continuing Professional Development (CPD) course

Committed to training and broadening the knowledge of engineers through these courses, we have been registered as a CPD provider since 1997 and have been accredited by CIBSE.

We currently offer the following CIBSE-approved CPD presentations:

- Radiant Heating & Cooling - Fundamentals and Design Guide
- Design Considerations for Trench Heating

ISO 9001 Certification

At SPC, we take pride in holding an ISO 9001 accreditation that assures our customers that their key trading partners will deliver the quality they require.

As a company and as individuals, we are dedicated to ensuring quality and continuous improvement that will have a long-lasting effect.



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