

COMMERCIAL HEATING & PLANT

FROM PLANT ROOMS AND BOILER HOUSES TO SMALL APPLICATIONS, THE RANGE OF HEATING EQUIPMENT AVAILABLE IS VAST OFFERING DIFFERENT SOLUTIONS AND EFFICIENCIES TO MATCH YOUR REQUIREMENTS. BY WORKING CLOSELY WITH BRAND LEADING MANUFACTURERS, BACKED UP BY OUR HIAB CRANES ON OUR LGV'S, SUPPLYING YOUR EQUIPMENT HAS NEVER BEEN EASIER.



- / BOILERS
- / WATER HEATERS/ CYLINDERS/CALORIFIERS
- / LOWARA
- / PUMPS
- / PRESSURISATION UNITS
- / BOOSTER SETS
- / DOSING POTS
- / AIR & DIRT SEPARATORS
- / EXPANSION VESSELS
- / MAGNETIC FILTERS
- / METERING
- / STELRAD
- / RADIATORS & TOWEL RAILS
- / HEATERS

/ BOILERS /



A fuel-burning unit used for heating water with the three main types being; combi, system and heat only (for biomass please refer to the renewable section). SBS partner a number of commercial boiler manufacturers making sure there is a unit to suit every application. Boilers need to meet both environmental and economical demands and have options for wall hanging or floor standing, which often depends on size range selected. Available kW range varies between model and manufacturer but by dealing with quality brands all performance and ErP demands can be met.



BOILER OPTIONS

- Gas
- Oil
- Gas/Oil
- Industrial
- CHP/Biomass (see renewable section)

See vital statistics section to see the comparison chart for your desired model

/ WATER HEATERS / CYLINDERS / CALORIFIERS /

A wide range of options are available to offer solutions for every application, from public buildings and commercial properties, to construction sites, festivals and sporting events. Following the change in ErP Regulations it has become extremely important to provide products capable of performing to the required level. Efficiency percentages and recovery rates for these products remain paramount along with protection against legionella and easy installation as space is often at a premium. Smaller undersink and oversink instant boiler water options are also available whether it be for domestic or industrial use. Size (litre) range varies between model and manufacturer but by dealing with quality brands all performance demands can be met.



BOILER OPTIONS

- Direct
- In-Direct
- Unvented
- Vented
- Solar (see renewable section)

For additional support on replacement and new water cylinders please refer to vital statistics section.



LOWARA



Renowned for its progressive research and development, Xylem's Lowara brand is a market leader in the advancement of pumping and circulating solutions for the residential and commercial markets. All hydraulic pumps, drives and packages are developed with low lifecycle costs in mind, as well as high efficiency, ease of installation and ultimately a long service life. With the ability to tackle even the most demanding of clean and wastewater management applications, the Lowara brand operates across multiple market segments, offering high quality solutions for water, wastewater, HVAC and fire protection.

PUMPS

Xylem's Lowara brand is synonymous with providing long term economical solutions for pumping and circulating clean or contaminated water. The main industries served are;

RESIDENTIAL AND COMMERCIAL BUILDING SERVICES: circulation in heating and cooling systems, domestic hot water, water supply, wastewater handling and fire protection solutions

PUBLIC UTILITIES: water supply and district heating solutions

AGRICULTURE: irrigation systems

AQUACULTURE: water transport solutions

MINING: water supply and dewatering solutions

OIL AND GAS INDUSTRY: heavy duty water transport solutions

GENERAL INDUSTRY: water supply, pressure boosting including boiler feeding, washing equipment

Lowara pumps, drives and packaged solutions such as pressure booster sets and wastewater lifting stations are all developed with low life cycle cost in mind. That means products which are robust, highly efficient, easy to install and service with a long service life.

To make it easy to work with Lowara products, we offer a package of tools, including pump selection software and applications, circulator replacement guides and CAD & BIM files online.



BOOSTER SETS, PRESSURISATION UNITS AND OTHER EQUIPMENT

GHV & GVF SERIES BOOSTER SETS: fully automatic for water supply equipped with 2-6 pumps including pressure transmitters and control panel.

HYDROQUENCH PACKAGED FIRE SYSTEM: automatic sprinkler sets provide a pressurised system in residential installations, using the latest technologies to ensure the highest degree of reliability. Designed to comply with the draft specification EN 12259-12 & BS 9251.

MINI COLD WATER PACKAGED BOOSTER SETS: complete with break tank, suitable for boosting cold water via type A/B air gap on domestic, commercial, industrial and building applications, energy saving variable speed models available fitted with the e-SM.

PREFIX PRESSURISATION UNITS: designed to replace water that has been lost through system leakage and to maintain the system design fill pressure in sealed heating and chilled water systems in accordance with BS7074 parts 1, 2 & 3.

SPHERE UNITS, BLOCK AND GENYO SYSTEMS: units consist of a single-phase automatic one pump pressure set available in the electro-mechanical version, sphere units, block (diaphragm tank, pressure switch, pressure gauge and various connectors) and in the electronic one (pump plus Genyo).

SMB, RESVARI, VARITANK, RESFIX AND FIXTANK BOOSTER SETS: Variable and fixed speed pumping units designed to maintain pressures, even during peak demand periods.



PUMPS



The energy regulations have changed the world of pumps a lot over recent years and SBS deal with various brand leading manufacturers to provide a solution for any pumping requirement in various applications such as; domestic building, commercial building, fire protection, industrial, water supply and waste water. Either from stock or direct from the applicable manufacturer, ErP compliant pumps can be supplied. Condensate removal pumps are listed in the air conditioning section.



PRODUCT RANGE

- Variable Speed & in-line Circulators (ErP compliant & WRAS approved)
- In-line (including twin) & end suction centrifugal,
- Multi-stage; horizontal, vertical, immersible, in-series
- Submersible & sewage

FEATURES (IF CORRECT PUMP IS CHOSEN)

- Simple installation
- Low energy consumption – complying with the latest ErP/EuP requirements
- Multiple pump settings
- Low noise level
- Minimal maintenance and long life
- Pumps to suit regardless of system pressures
- Pressure control and speed duty to suit
- Available for multiple systems including heat pumps and solar systems

To help convert new, old and different model pumps a conversion chart is available in vital statistics to help with replacements and new pumps.

PRESSURISATION UNITS



A wide range of high quality pressurisation units are available which can provide a solution for replenishing water into sealed system heating and chilled water installations. Unit can be suitable for small domestic/light commercial systems to a large industrial high-temperature or district heating systems. Models have the option to come with either digital or dial (analogue) displays, single and two pump versions, boxed (cabinet) or open and even small compact versions for small spaces.



SIZE: From small compact analogue units to large two pump digital units

BOOSTER SETS



High-rise buildings along with flow rate requirements often mean booster sets are essential in some geographical regions. Along with the fact water authorities only guarantee a pressure of 1 bar at a simultaneous flow of 9 litres/min, buildings of three levels or more will often require a booster set. Solutions are available for all types of installation from domestic to large industrial applications, even WRAS approved cold water booster sets. The model range varies from single pump and constant speed setting to multiple pumps, variable speed and inverter controlled sets.



/ DOSING POTS /



Dosing pots are installed in a heating or cooling system to allow rapid introduction of water treatment safely for the prevention of sludge, limescale and corrosion. The ideal location is where there is a high differential pressure between the flow and return pipework or heaters. The range has both mild steel and stainless steel material construction options, supplied fully assembled ready for installation on site. A non return valve has been fitted for additional safety due to its anti flash protection.

SIZE: 3.5ltr to 50ltr
TEMPERATURE: -10°C to 120°C
PRESSURE: 0.5bar to 14bar
FINISH: Mild steel & stainless steel available



/ AIR & DIRT SEPARATORS /



The range of separators available from SBS are designed to automatically remove dirt and air from heating, cooling and process systems, ensuring optimum performance of your equipment at all times. These can be installed in all buildings and even retro-fitted into existing systems, to provide economic and environmental benefits. Installation can be done on any sizeable open or closed loop system, including chilled water systems, condenser water systems, and process water systems.

FEATURES

- Stainless steel internal element.
- Designed and manufactured in accordance with pressure equipment directive 97/23/EC, 1997.
- Larger units available upon request.

SIZE: DN50 to DN300
CONNECTION: PN16 (others available upon request)
TEMPERATURE: Up to 110°C
PRESSURE: Up to 10bar
FINISH: Carbon steel and stainless steel available



/ EXPANSION VESSELS /



The expansion vessels for heating and potable water applications are manufactured with the highest grade materials to ensure long and reliable life. Available for both heating and potable water applications which comply with UK water regulations. All units are also fully compliant with European standards meeting all PED directives.

SIZE: 8mm (1/4") to 300mm (12")
TEMPERATURE: up to 99°C
PRESSURE: All pre set at 1.5bar, 8bar max up to 24ltr, 10bar max 35ltr up to 500ltr
FINISH: Red epoxy paint, grey, white (potable water)



/ MAGNETIC FILTERS /



Often unit installation is to prolong the life of the system with magnetic technology to help keep efficiencies high, maintaining optimum performance for both domestic and commercial environments. A wide range of products are available, even for the most demanding heavy duty industrial application with various connection options.

FEATURES

- Protection from black iron oxide
- Collects large and micro-particles of sludge that build up in the boiler
- Conforms to the pressure equipment directive
- Easy draining/cleaning maintenance



/ METERING /



Working with leading suppliers of metering products SBS can offer meters for the building services, process and agricultural markets along with a wide range of meters suitable for residential to hygienic applications.

PRODUCT RANGE

- **Water** - A full range of domestic, commercial and industrial WRAS and MID approved cold and hot water meters.
- **Electricity** - Single and three phase meters with either direct connection or CT operation with multiple communication outputs available.
- **Gas** - Range includes diaphragm, turbine and rotary meters. Gas regulators and solenoid valves also available.
- **Energy** - MID and RHI compliant/approved with multiple data output options.
- **Process** - Available for steam, oil, compressed air and hygienic requirements.
- **Tenant Valves** - Useful solution with multi purpose features. The compact product includes: ball type isolating valves, pressure reducing valve, double check valve, pressure gauge/test point and a connection for a water meter (not included). Adaptor available to allow for installation of class "D" meter suitable for use as a primary changing meter.



STELRAD



Stelrad offers one of the widest range of steel panel radiator styles and sizes in the UK and also has a comprehensive selection of designer products and towel warmers, not forgetting the range of low surface temperature radiators. With radiator heights up to 2200mm and width/lengths up to 3000mm, all size requirements can be met. Outputs are as low as 190 Watts (648 BTU's (Delta T50)) up to 6,276 Watts (21,414 BTU's (Delta T50))

Compact and Elite products were one of the first radiator ranges in the UK market to have a ten year guarantee. All products conform to EN442, the European Standard for radiators, and are manufactured in ISO 9000 certified facilities. The products are pressure tested to 10 bar (8 bar for LST's) to assure weld integrity and a thorough leak testing regime, followed by a four stage inspection process. Every radiator undergoes a two stage painting process to give an exceptionally hard-wearing finish in RAL 9016 as standard. To compliment the range, radiator valves are also stocked, which can be seen in the previous product area.

ELITE (STEEL PANEL)

One of the slimmest double panel radiators on the market at just 77mm wide, offering a range of 183 models and providing extra sizing flexibility to cover a multitude of application requirements. Specifically designed accessories, such as floor standing brackets, ensure the Elite can be fitted anywhere. Symmetrical convectors allow radiator mounting either way up, a TBOE connection is offered as an important facility in commercial applications and to ensure greater efficiency with high definition pressings to ensure smooth edges. All tappings are aligned with quality nickel-plated plugs and vents, incorporating high quality EPDM 'O' rings.

RANGE:

P1 – Single panel P+ – Double panel Single Convector
K1 – Single panel Single Convector K2 – Double panel Double Convector



SOFTLINE

This series of radiator offers a mix between design and performance giving the best of both with the range including Plan, Deco and Compact models. Vertical options are available should size of a room dictate a certain shape radiator is required.



COMPACT (STEEL PANEL)

The Compact is one of the UK's best-selling and comprehensive range of compact radiators. With proven high performance award winning characteristics, it is ideal for every room and every application where space is at a premium. Available in a range of 221 models, the range provides extra sizing flexibility and covers a multitude of application requirements. The integrated top grille and side panels have been specifically designed to eradicate any movement, providing a tight, professional fit that will remain in place, even after storage, transit and installation. A range called Compact Vertex is also available to give an extra option when it comes to sizing.

RANGE:

P1 – Single panel P+ – Double panel Single Convector
K1 – Single panel Single Convector K2 – Double panel Double Convector



STELRAD



DESIGNER

The range has both horizontal and vertical options to suit various tastes and property requirements. Colours and size vary greatly with a brief outline of the different options seen below;

- Planar – Slim profile radiator which is often a favourite with architect's after understating radiators
- Style – Combination of design and value presenting a stylist product
- Concord – Constructed from horizontal tubes creating a flat radiator
- Caliente – Like the Concord but ultra thin tubes
- Classic Column – Timeless steel column 'old' style classic radiator



LST STANDARD & I-PLUS

Meeting NHS guidelines for 'safe hot water and surface temperature' they are also finished in antibacterial paint as standard making safety paramount in such challenging environments. The LST Standard gives you the option to specify your preferred controls and can be installed in domestic, commercial and public buildings running heating systems. The i-Plus model comes with a Danfoss RAS-D remote sensor designed specifically for commercial heating systems which can be pre-set to allow adjustment of room temperatures between 5°C and 26°C. Every LST radiator is supplied with flat panel outer casing which is totally reversible to allow piping flexibility. The casing is held by security fittings with a unique seam fixing bracket system to prevent unauthorised access to the emitter accommodated inside. The emitter itself provides high outputs through convection for excellent heating performance. A range called LST Plus Vertical is also available to give an extra option when it comes to sizing.

RANGE:

K1 – Single panel Single Convector
P+ – Double panel Single Convector
K2 – Double panel Double Convector



RADIATORS & TOWEL RAILS



If Stelrad doesn't suit your project requirements SBS work with other manufacturers providing a range of LST, compact and towel rail radiators. The different products come with various feature benefits but common acceptance is this method of heat transfer (radiator) has developed significantly giving many more options than ever before helping find a solution for every application/environment.



HEATERS



In partnership with brand leading manufacturers, an extensive range of heating equipment is available through SBS. With such focus on the energy sector, maximising control and performance, while minimising running costs is key within any heater. A small selection of the range available is highlighted below with various approvals supporting the products.

UNIT HEATERS (FLOOR STANDING, CABINET AND OPEN)

Unit heaters can be installed in the widest variety of locations, from factories and warehouses to exhibition halls and showrooms. The two discharge options, downward or horizontal, meet all likely space configurations. Downward discharge is particularly suited to complex areas where obstacles might impede airflows from a horizontal unit. However the horizontal discharge units, with high adjustability, they are ideal where directional heating (eg along production lines) is required.

Most unit heaters can operate with low, medium or high pressure from hot water, steam, natural gas, oil or LPG. This means that most existing factory or commercial units need no major or expensive capital installation, before an effective heating solution can be found.

ADVANTAGES

- Increased comfort
- Extensive range
- Tried, tested and trusted over many years
- Simple to install
- Control flexibility
- Natural gas, oil or LPG fired options
- Ideal for most industrial and commercial applications with large range of heat outputs and burner options
- CE approved gas models available

SIZE: 10kW to 300kW

To assist with model selection see vital statistics section.



DESTRATIFICATION FANS

With any conventional air heating system warm air will rise to roof level by natural convection. In high buildings such as factories, warehouses and sports centres, this can result in high temperature gradients and consequently increased energy usage. Destratification fans reverse the natural convection process, recirculating warm air back to working level providing a permanent reduction in roof space temperature and uniform temperature distribution.

ADVANTAGES

- Ease of installation
- Low running costs
- Reliable in operation with minimum maintenance
- Extremely effective heat distribution
- Variety of paint finishes available upon request



HEATERS



RADIANT HEATERS

Easily installed and requiring minimal maintenance, these gas heaters provide clean, quiet, energy efficient heat. Ceiling mounted and aesthetically pleasing, these heaters are available in a variety of sizes and designs.

ADVANTAGES

- Broad range of inputs and tube lengths to fit a variety of building sizes and floor plans
- Durable components help provide long equipment life
- Ceiling mounting options
- Detailed installation, commissioning, operation and service manuals to assist in reducing installation and service time
- Deep-dish, parabolically-designed reflectors with end caps help maximise energy reflection & minimise heat loss by convection
- Reflectors can often be tilted or side reflectors can be added to concentrate heat where needed
- Quick fix couplings and hangers provide ease of installation
- Natural gas or LPG models available
- Unit can be CE design certified to meet industry standards



A comparison chart for your desired model is available in the vital statistics section.

AIR CURTAINS

An air curtain does not act as a physical barrier, but is designed to retain air conditioned or heated air, reduce cooling or heating loads while allowing the use of an 'open door' policy & keeping smells and other contaminants out. Applications can be retail premises, sales outlets, cold stores, busy main entrance, warehouse & reception areas. With any air curtain it is essential that the 'jet' of air reaches the floor and covers the entire door width. An air curtain should therefore enhance comfort and save energy.

ADVANTAGES

- Increased comfort
- Energy savings
- Tried, tested & trusted over many years
- Simple to install – plug & play
- Control flexibility

SIZE: 9kW to 60kW



TRENCH HEATING

Trench heating is very discreet, frees up floor space and does not obscure vision through any glazing. It also reduces the liability for accidental damage and requires minimal maintenance. However if space beneath the floor is restricted or the floor is solid, low level floor-mounted perimeter heaters or runs of continuous above-floor perimeter heating may provide the answer. Perimeter heating provides all the benefits of trench heating, circulating and heating cool air from windows, minimal dimensions and it works well in situations where trench heating cannot be installed.

SIZE: 100kW to 1800kW (Individual units)

