



S-CB+
Wall Hung Condensing Boiler
60 - 180kW

Why choose Strebel?

Strebel Ltd has been supplying, installing and servicing commercial boilers and water heaters in the UK since 1970. Founded by Josef Strebel in Germany in 1893 our company is recognised today as providing an extensive range of highly efficient, innovative and trustworthy boilers and water heaters for many commercial applications.

With energy conservation, low pollution and reliability at the core of what we do we offer ideal solutions for today's environmentally and economically conscious markets. When you choose to invest in a Strebel product you can be confident that not only will you be choosing the right solution tailored to your individual needs but you'll also be backed by Strebel's highly qualified technical support and service team.

We constantly strive to offer products to the highest standards of quality, longevity and reliability. Our extensive range includes technically advanced wall hung and free standing condensing gas boilers, condensing and non-condensing water heaters, a wide range of calorifiers, advanced biomass boilers as well as, of course, our traditional Cast Iron range alongside a diverse range of system accessories such as Boiler Frame Sets, Hydraulic Piping Kits, Low Loss Headers, Plate Heat Exchangers and System Pumps.

Please visit our website for further information on our products and services

www.strebel.co.uk

Trusted By
Commercial
Heating Engineers
Since 1893



Fully Modulating Wall Hung Condensing Boilers

The S-CB+ boiler series is just one of the large range of Strebels offering you the latest in condensing gas boiler technology. Not only delivering on output and build quality, the boilers also offer low emissions, high efficiency along with a small footprint making them both a cost effective and installer friendly choice.

Offering Seasonal Efficiency across the range in excess of 95% to Part L calculations and Class 5 NOx emissions the entire range is ERP 'A' rated and is the perfect fit for many commercial heating applications. Benefiting from a corrosion resistant stainless steel heat exchanger, an in-built A rated circulating pump as well as a small footprint the S-CB+ offers ease of installation, low emissions and high performance.

With nominal outputs from 13kW to 175kW at 50/30 (F/R) in single boiler outputs and almost endless cascade configurations (up to 12 boilers is possible) the S-CB+ can be either wall or frame mounted and offers a perfect solution where space or access is limited. The range comprises 6 models ranging from 60 to 180kW and can be flued either co-axially or twin piped up to the 120kW unit.

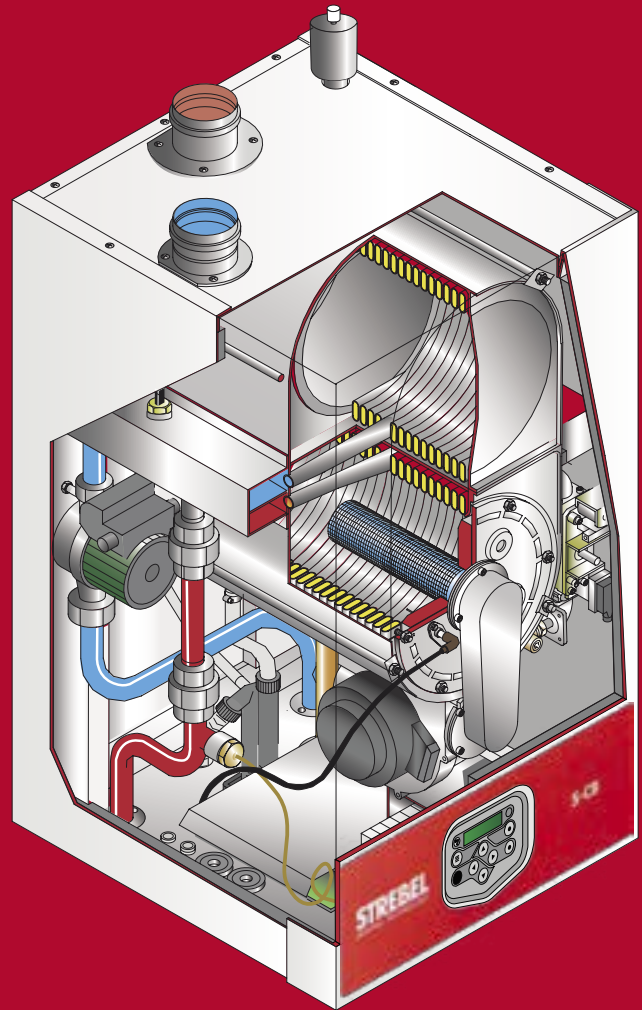
S-CB+ Condensing Boiler

- Stainless Steel Heat Exchanger
- ERP 'A' rated with integrated pump
- Small Footprint
- Full Accessory Range



Key Features

- Stainless steel heat exchanger offering optimal heat transfer and longevity
- Built-in fully modulating boiler pump
- PreMix burner offering low NOx emissions (Class 5)
- ErP- A-rated compliant product range
- Fully built-in cascade control system
- Volt free contacts run and fault
- Easy to assemble cascade mounting frames and hydraulic kits
- Can be used in a cascade configuration of up to 12 boilers
- Optional Strebel outside sensor, to give full weather dependent compensation
- Fully supported by our experienced engineers and customer service team



S-CB+ delivers super-efficient heating from a compact design



Latest Digital Controls

The S-CB+ boiler utilises the latest in digital control with logic based proving to provide an easy to use, total boiler control solution.

When utilising the fully inbuilt cascade control, the S-CB+ boasts the capability for full logic step control of multiple S-CB+ boilers (up to 12 boilers). The logic control also accepts a 0 to 10 volt signal for full cascading temperature control for both single and multiple boilers.

When fitted with the optional Strebel outside sensor, the boiler will also give full weather dependent compensation; further increasing the overall product performance to a possible A+ rating.



Stainless Steel

Corrosion resistant stainless steel heat exchanger



Output Range

Six different outputs ranging from 60 -180Kw



Integrated Pump

Fully built in 'A' rated modulating circulator pump



Advanced Controls

Fully built in cascade controls to enable optimal load matching



Low Emissions

Low NOx emissions to Class 5 rating



Flexible Cascading

Can cascade up to 12 boilers. Easy to assemble mounting frames



Compact Size

Space saving footprint. Largest 180Kw boiler measures 898mm high x 476mm wide



Weather Compensation

Optional Strebel outside sensor, offering full weather dependent compensation

Compact Design

Wall or frame mounted the compact design of the Strebel S-CB+ can deliver 6 different outputs ranging from 60kW to 180kW. The super compact 180kW boiler measures only 898mm high x 476mm wide making it ideal for applications where space is at a premium.

Flexible Flueing

The S-CB+ has excess fan power when provided with individual flues and air intakes. This flue fan capacity allows for extensive air inlet and flue run capabilities with various choices of horizontal and vertical flue configurations.

Low Pollution

Constant control of air / gas mixing ratios maintains low pollution proportions throughout the burner modulation range. S-CB+ boilers also feature a low NOx heat exchanger construction entirely of stainless steel, which is the well-proven material for hyper efficient condensing technology.

External Pump Option

In some situations it may be preferred to position the circulating pump outside the boiler casing. In this case the S-CB PX 120 boiler offers the same high level of performance as the S-CB+ 120 boiler but with the pump located in the connecting hydraulic pipework. The S-CB PX 120 comes as standard with connections for a twin pipe flue system.

Cascade System

These versatile boilers can be combined and controlled as part of a multi-boiler cascade system offering a flexible and energy efficient heating solution for many applications, with endless choice of cascade outputs.

The cascade system provides many advantages for commercial installations:

Significant energy savings and greater comfort

The total boiler output can be matched precisely to variations in heating demand throughout the year, as the boilers in operation can be modulated and sequenced on and off according to the heating load.

System Accessories



A full range of hydraulic kits including both brazed and gasketed plate heat exchangers and low loss headers are available.

The S-CB+ cascade system offers a wide choice of power output

Simple installation

Our cascade systems are available with all of the necessary support frames, pipe connections, valves and headers, ensuring that fitting is as reliable and as straight forward as possible.



Services and Warranty

Commissioning, Service and Spares

It is highly recommended that all boilers are commissioned by our Service department by experienced Strebel service engineers. This ensures that your boiler will be set up both safely and optimally for maximum efficiency and that the combustion settings will be matched to the plant room conditions. After each successful commissioning a full report will be issued to evidence the initial operating set-up conditions and readings.

Our Service Department offers a range of servicing options that can be tailored to meet individual requirements. Please contact us for more information.

Availability of Spares to the right specification and at the right time is essential to the successful operation of any plant room item. We recommend taking the time to stock up on Spares before the Heating season to minimise unplanned downtime. At our central Warehouse facility we stock a wide range of commonly used parts which can be dispatched directly to site for the following day assuming the order is received the morning before.



Warranty

The S-CB+ and S-CB PX120 is offered with a 5-year standard warranty on the heat exchanger and 2-years on other parts and labour from the date of commissioning (assuming this date is no less than 12 weeks after supply to site) subject to satisfactorily evidenced water treatment regime (ICOM Guidelines Apply). This warranty is conditional based upon the boiler(s) being commissioned by Strebel. If the boilers are not commissioned by Strebel the 2-year parts and labour warranty is reduced to 1 year, but the heat exchanger warranty is unaffected.



Strebel S-CB+ Technical Specifications

| | | Technical Specifications | | | | | | |
|--|-------------------|--------------------------------|-------------|-------------|------------|-------------|----------------------|------------|
| Model | | S-CB+ 60 | S-CB+ 80 | S-CB+ 100 | S-CB+ 120 | S-CB PX 120 | S-CB+ 150 | S-CB+ 180 |
| Nominal INPUT Min/Max (Nett) | kW | 12.5 - 55.6 | 14.6 - 74.3 | 17.2 - 92.2 | 26 - 111 | 26 - 111 | 34 - 138 | 45 - 166 |
| Nominal OUTPUT 80/60°C at 100% | kW | 12 - 53.5 | 14 - 71.2 | 16.5 - 88.4 | 24.7 - 106 | 24.7 - 106 | 32.6 - 132 | 43.3 - 160 |
| Nominal OUTPUT 50/30°C at 100% | kW | 12.9 - 57.4 | 15.2 - 77.5 | 18 - 96.2 | 27.2 - 116 | 27.2 - 116 | 35.5 - 144 | 47.3 - 175 |
| Nominal OUTPUT 37/30°C at 30% | kW | 13.5 - 59.8 | 15.7 - 80.1 | 18.6 - 99.5 | 28.1 - 120 | 28.1 - 120 | 36.7 - 149 | 48.5 - 179 |
| Efficiency 40/30°C DIN 4702-8 | % | Up to 110.6% in the S-CB Range | | | | | | |
| Seasonal Efficiency (Part L) | % | 94.98 | 95.34 | 95.34 | 95.58 | 95.58 | 95.22 | 95.14 |
| Gas Consumption (Natural Gas) | m ³ /h | 5.88 | 7.86 | 9.76 | 11.8 | 11.8 | 14.6 | 17.6 |
| Gas Consumption (LPG) | m ³ /h | 2.27 | 3.04 | 3.77 | 4.54 | 4.54 | 5.65 | 6.79 |
| CO ₂ (Natural Gas) | % | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| CO ₂ (LPG) | % | 10.3 | 10.3 | 10.3 | 10.3 | 10.3 | 10.4 | 10.5 |
| NOx - Class (EN483 / EN15420) | | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| NOx to EN15502 | mg/kWh | 38 | 46 | 40 | 45 | 45 | 41 | 44 |
| Burner Control | | Pre-mix Fully Modulating | | | | | | |
| Electrical Power Supply | V/Hz | 230/50 | 230/50 | 230/50 | 230/50 | 230/50 | 230/50 | 230/50 |
| Electrical Power Consumption | W | 355 | 355 | 355 | 370 | 150 | 600 | 600 |
| Protection Class | | IPX4D | IPX4D | IPX4D | IPX4D | IPX4D | IPX4D | IPX4D |
| Max Boiler Flow Temperature | °C | 90 | 90 | 90 | 90 | 90 | 90 | 90 |
| Working Pressure Min/Max *** | bar | 1-4 | 1-4 | 1-4 | 1-4 | 1-4 | 1-4 | 1-4 |
| Boiler Water Content | Litre | 3.9 | 5 | 6.5 | 8.3 | 8.3 | 10.4 | 12.9 |
| Integrated Pump | | Yes | Yes | Yes | Yes | No | Yes | Yes |
| Flow/Return Connection (boiler) | inch | 1" | 1" | 1" | 1" | 1" | 1" | 1" |
| Flow/Return Connection (with Supplied T-piece) | inch | 1 1/4" | 1 1/4" | 1 1/4" | 1 1/4" | 1 1/4" | 1 1/2" | 1 1/2" |
| Gas Connection | inch | 3/4" | 3/4" | 3/4" | 3/4" | 3/4" | 1" | 1" |
| Flue / Air Supply Connections | | | | | | | | |
| Coaxial System | mm | 80/125* | 80/125* | 100/150* | 100/150* | 100/150** | Available On Enquiry | |
| Twin Pipe System - Flue / Air Supply | mm | 80-80** | 80-80** | 100-100** | 100-100** | 100-100* | 130-130* | 130-130* |
| Dimension & Weight | | | | | | | | |
| Height | mm | 842 | 842 | 842 | 842 | 842 | 898 | 898 |
| Width | mm | 476 | 476 | 476 | 476 | 476 | 476 | 476 |
| Depth | mm | 486 | 486 | 486 | 486 | 486 | 677 | 677 |
| Dry Weight | kg | 46 | 73 | 78 | 83 | 78 | 92 | 101 |

The company reserves the right to change the specifications and dimensions without prior notice. E.&O.E.

* Standard Flue/Air Supply Connection ** Optional Flue/Air Supply Connections *** 6 bar on request



Customer Support

As with all Strebel products, the S-CB+ boiler range is fully supported by our excellent customer service team and experienced technical engineers. Whether you are looking for product advice or for maintenance and repair, our service team are on hand to support you and can be contacted easily via telephone or online.

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