



S-WG+ Condensing Water Heater

Recovery rates from 597 to 3010 l/hr

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, solar thermal panels 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



S-WG+ Stainless Steel Condensing Water Heater

The S-WG+ range of condensing water heaters is an optimal choice for engineers who favour stainless steel construction material. Not only delivering on performance and quality, the heaters are also exceptionally environmentally friendly and fuel efficient, making them a cost effective choice.

Offering net combustion efficiency up to 110.6% and NOx of less than 46 mg/kWh across the entire range all the models are ERP 'A' rated and are the perfect fit for many commercial hot water applications. The S-WG+ can be fitted with either co-axial or twin flue configuration.

Available as a full piped and wired Plug and Play skid mounted unit the 35 and 55kW heat models combined with 150 or 230 litre tanks (S-WG 35,55/150,230) have footprint of less than 1m² and at less than 700mm width will fit through most door frames.

The five larger heaters offer output range from 80kW to 180kW with tank sizes of either 300, 500 or 750 litres to supply water at the rate required for the application. These models are supplied loose packaged for flexible plant room siting. The heater models can either be wall mounted or fixed to a floor standing robust steel frame.



S-WG+ Condensing Water Heater

- High Grade Stainless Steel 316l
- ERP 'A' rated
- Fast Recovery Rate
- Flexible Flue Options

Skid Mounted Plug and Play, available in three sizes 35/150, 35/230 and 55/230.



Key Features



Stainless Steel

Water heaters and tanks are all made from stainless steel



Heater Output Range

Eight models with heat output from 35 to 180kW



Fast Recovery Rates

Hot water rate from 597 to 3010 litres per hour at 50°C Delta T



Storage Tank Range

Five models with water volume from 153 to 764 litres



Compact size

S-WG+ 35 and 55 units stand on less than one square metre and can fit through most door frames



Flexible Cascading

S-WG+ 80 to 180kW can be cascaded upto a maximum of eight with multiple storage tanks



Plug and Play

S-WG+ 35 and 55 units come pre-assembled including pipe work, heater, tank, safety devices, valves and complete wiring



Low Emissions

Low NOx emissions (all products less than 46mg/kWh) achieving ErP A rating.



Flexible Controller

For further energy saving possibilities, heating-up times can be programmed in three periods per day when needed. It also offers protection against frost and Legionella.

The Water Heater temperature can be regulated through an external controller (remote) via 0-10 VDC signal.

Plug and Play Skid Mounted Unit

This exceptionally compact and high-performance direct Water Heater package stands on less than 1m² floor area. The gas condensing Water Heater and the water storage tank form a unit and are mounted onto a robust metal stand. The stand width is only 700mm to fit through most door frames. The Water Heater and tank can be separated from the stand and moved separately if required, and then be re-assembled.

The whole package comes pre-assembled and is ready to plug in. Safety elements, complete wiring, drain valves for tank and boiler are also included.

Contents of the Water Heater, the pipe work and storage tank are all made from stainless steel for best service water quality, hygiene and lifespan.

Three sizes available:

35/150 - including 35kW heater and 150 litre tank

35/230 - including 35kW heater and 230 litre tank

55/230 - including 55kW heater and 230 litre tank



Skid Mounted Plug and Play



Heater and Tank Supplied Separately

Frame or Wall Mounted Water Heaters

Our larger line of water heaters is supplied to site as loose packaged items. The water heater can be wall mounted or a Strebel frame can be supplied. This system can be selected to fit your project. Mix and match the water heater power to a storage tank volume to suit your needs.

Example: If you have insufficient gas on site to fit a larger water heater you can overcome this by fitting a smaller water heater kW rating in combination with a larger tank. This way it is possible to gain more storage with a longer recovery time whilst also coping with large peak demands.

Contents of the water heater, the pipe work and storage tank are all made from stainless steel for best hygiene and lifespan.

Five heater sizes available with three tank options:

80kW heater and either 300, 500 or 750 litre tank

100kW heater and either 300, 500 or 750 litre tank

120kW heater and either 300, 500 or 750 litre tank

150kW heater and either 300, 500 or 750 litre tank

180kW heater and either 300, 500 or 750 litre tank

Strebel S-WG+ Technical Specifications

		Technical Specifications							
		S-WG+ 35/150	S-WG+ 35/230	S-WG+ 55/230	S-WG+ 80/300	S-WG+ 80/500	S-WG+ 80/750	S-WG+ 100/300	S-WG+ 100/500
Nominal Input (Gross)	kW	37.4	37.4	58.8	82.5	82.5	82.5	102	102
Nominal Output (Gross)	kW	34.7	34.7	53.7	77.5	77.5	77.5	96.2	96.2
Storage Capacity	litres	153	240	240	304	491	764	304	491
Water Heating Energy Efficiency Class		A	A	A	-	-	-	-	-
ErP Load Profile		XL	XL	XXL	XXL	XXL	XXL	XXL	XXL
Efficiency (Gross CV)	%	92.8	92.8	91.3	93.9	93.9	93.9	94.3	94.3
NOx to EN15502	mg/kWh	36	36	33	46	46	46	40	40
Working Pressure (Min/Max)	bar	1.0/8.0	1.0/8.0	1.0/8.0	1.0/8.0	1.0/8.0	1.0/8.0	1.0/8.0	1.0/8.0

		Water Output - Calculated at: Cold Water Main							
Continuous Output with 44°C Delta T	l/h	678	678	1050	1515	1515	1515	1880	1880
1st Hour Output With 44°C Delta T	l	887	1006	1377	1929	2184	2557	2295	2557
Continuous Output with 50°C Delta T	l/h	597	597	924	1333	1333	1333	1655	1655
1st Hour Output With 50°C Delta T	l	780	885	1212	1698	1922	2250	2019	2250
Continuous Output with 56°C Delta T	l/h	533	533	825	1190	1190	1190	1477	1477
1st Hour Output With 56°C Delta T	l	697	790	1082	1516	1716	2009	1803	2009
Heating Up Time Delta T 44°C	min	14.5	21.8	13.7	13.3	22.1	33.2	10.6	17.1
Heating Up Time Delta T 50°C	min	16.4	24.7	15.6	15.1	25.1	37.7	12.1	20.1
Heating Up Time Delta T 56°C	min	18.4	27.7	17.5	16.9	28.1	42.2	13.5	22.1

		Dimensions							
Water Heater Only									
Height	mm	516	516	516	842	842	842	842	842
Width	mm	405	405	405	476	476	476	476	476
Depth	mm	310	310	310	486	486	486	486	486
Storage Cylinder Only									
Height	mm	1387	1417	1417	1804	2020	1866	1804	2020
Diameter	mm	511	606	606	675	795	995	675	795
Water Content (Heater Only)	litres	2.3	2.3	3.4	5	5	5	6.5	6.5
Weight (Dry Heater Only)	kg	22	22	26	68	68	68	73	73
Weight (Full Heater Only)	kg	24.3	24.3	29.4	73	73	73	79.5	79.5
Standing Loss of Tank	Watt	61.3	61.3	78.8	96.3	114.2	142.1	96.3	114.2
Flow Connection	Inch	R 1 1/2	R 1 1/2	R 1 1/2	R 1 1/2	R 1 1/2	R 1 1/2	R 2"	R 2"
Return Connection	Inch	R 1 1/2	R 1 1/2	R 1 1/2	R 1 1/2	R 1 1/2	R 1 1/2	R 2"	R 2"
Gas Connection	Inch	R 3/4	R 3/4	R 3/4	R 3/4	R 3/4	R 3/4	R 3/4	R 3/4

		Flue / Air Supply							
Coaxial System	mm	80/125mm	80/125mm	80/125mm	80/125mm	80/125mm	80/125mm	100/150mm	100/150mm
Twin Pipe Supply - Flue / Air Supply	mm	80-80mm	80-80mm	80-80mm	80-80mm	80-80mm	80-80mm	100-100mm	100-100mm
Power excl Pump	w	55	90	90	136	136	136	142	142
Electrical Protection	IP	X4D	X4D	X4D	X4D	X4D	X4D	X4D	X4D
CO ² Flue Gas (NG)	%	8.7 - 9.0	8.7 - 9.0	8.7 - 9.0	8.7 - 9.0	8.7 - 9.0	8.7 - 9.0	8.7 - 9.0	8.7 - 9.0
Gas Consumption (NG)	m ³ /hr	1.07-3.57	1.07-3.57	1.48-5.60	1.54-7.86	1.54-7.86	1.54-7.86	1.82-9.76	1.82-9.76
Noise Level	dB(A)	61	61	61	67	67	67	65	65

Specifications										
100/500	S-WG+ 100/750	S-WG+ 120/300	S-WG+ 120/500	S-WG+ 120/750	S-WG+ 150/300	S-WG+ 150/500	S-WG+ 150/750	S-WG+ 150/300	S-WG+ 180/500	S-WG+ 180/750
2	102	123	123	123	153	153	153	184	184	184
2	96.2	116	116	116	144	144	144	175	175	175
1	764	304	491	764	304	491	764	304	491	764
	-	-	-	-	-	-	-	-	-	-
	XXL	XXL	XXL	XXL	XXXL	XXXL	XXXL	XXXL	XXXL	XXXL
3	94.3	94.3	94.3	94.3	94.1	94.1	94.1	95.1	95.1	95.1
	40	45	45	45	41	41	41	44	44	44
3.0	1.0/8.0	1.0/8.0	1.0/8.0	1.0/8.0	1.0/8.0	1.0/8.0	1.0/8.0	1.0/8.0	1.0/8.0	1.0/8.0

ns = 10c Cylinder Storage Temperature = 70c

0	1880	2267	2267	2267	2815	2815	2815	3420	3420	3420
0	2922	2682	2937	3309	3229	3484	3856	3835	4090	4462
5	1655	1995	1995	1995	2477	2477	2477	3010	3010	3010
4	2571	2360	2584	2912	2842	3066	3394	3375	3599	3927
7	1477	1781	1781	1781	2211	2211	2211	2688	2688	2688
3	2296	2107	2308	2600	2537	2738	3030	3013	3214	3506
7	26.6	8.9	14.4	22.4	7.1	11.6	18.1	5.9	9.6	14.9
2	30.2	10.1	16.4	25.5	8.1	13.2	20.5	6.7	10.9	16.9
6	33.9	11.4	18.3	28.5	9	14.8	23	7.5	12.2	18.9

ensions

2	842	842	842	842	898	898	898	898	898	898
5	476	476	476	476	476	476	476	476	476	476
5	486	486	486	486	677	677	677	677	677	677
0	1866	1804	2020	1866	1804	2020	1866	1804	2020	1866
5	995	675	795	995	675	795	995	675	795	995
5	6.5	8.3	8.3	8.3	10.4	10.4	10.4	12.9	12.9	12.9
	73	78	78	78	87	87	87	96	96	96
5	79.5	86.3	86.3	86.3	97.4	97.4	97.4	108.9	108.9	108.9
2	142.1	96.3	114.2	142.1	96.3	114.2	142.1	96.3	114.2	142.1
"	R 2"	R 2"	R 2"	R 2"	R 2"	R 2"	R 2"	R 2"	R 2"	R 2"
"	R 2"	R 2"	R 2"	R 2"	R 2"	R 2"	R 2"	R 2"	R 2"	R 2"
4	R 3/4	R 3/4	R 3/4	R 3/4	R 1"	R 1"	R 1"	R 1"	R 1"	R 1"

y Connections

0mm	100/150mm	100/150mm	100/150mm	100/150mm	Availability Pending Site Installation			Availability Pending Site Installation		
0mm	100-100mm	100-100mm	100-100mm	100-100mm	130-130mm	130-130mm	130-130mm	130-130mm	130-130mm	130-130mm
2	142	151	151	151	214	214	214	229	229	229
D	X4D	X4D	X4D	X4D	X4D	X4D	X4D	X4D	X4D	X4D
9.0	8.7 - 9.0	8.7 - 9.0	8.7 - 9.0	8.7 - 9.0	8.7 - 9.0	8.7 - 9.0	8.7 - 9.0	8.7 - 9.0	8.7 - 9.0	8.7 - 9.0
9.76	1.82-9.76	2.75-11.8	2.75-11.8	2.75-11.8	3.60 - 14.6	3.60 - 14.6	3.60 - 14.6	4.76 - 17.6	4.76 - 17.6	4.76 - 17.6
	65	62	62	62	66	66	66	69	69	69

Seven Reasons to Use Strebel

We are proud of our history and the disciplines instilled in the company by our founder Josef Strebel.

It's the Strebel way - uncompromising product quality and customer care.

S	AFETY	At the heart of everything we do
T	RUSTED	By engineers since 1893
R	OBUST	High quality components
E	ASE	Of installation
B	EST	Practice throughout design, manufacturing and installation
E	NGINEERED	For long trouble free product life
L	OGICAL	Sophisticated control software

Services and Warranty

Commissioning, Service and Spares

It is highly recommended that all water heaters are commissioned by our Service department by experienced Strebel service engineers. This ensures that your water heater 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. 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-WG+ range is offered with a 2-year standard warranty on the heat exchanger and vessel and 1-year on other parts and labour from the date of commissioning subject to commissioning being carried out by a Strebel engineer (assuming that commissioning date is no less than 12 weeks after supply to site). If the water heaters are not commissioned by Strebel the warranty periods start at date of delivery to site.

Note that we do not recommend to cascade the S-WG+ 35 or 55 units different pumps and pipe diameters are needed. In these cases we recommend to use the S-WG+ 80-180 water heaters instead.



Customer Support

As with all Strebel products, the S-WG+ water heater 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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