



S-HQ Accessories

The following are examples of accessories which are available for the S-HQ Boiler Range:

- BrainQ 7-day programmer with integral room thermostat.
- Cascade & Zone Controls for control of up to 8 boilers.
- Outside Sensor for weather compensation.
- Hydraulic Pipework Kits & Low Loss Headers.
- 0-10 Volt Interface for BMS Control.
- Flue Systems - Coaxial, Twin Pipe, Cascade.

Hydraulic Pipework Kit for two boilers.

Boiler type		COMBI BOILERS				BOILER ONLY		
		SHQ25C	SHQ38C	SHQ51C	SHQ25S	SHQ38S	SHQ51S	SHQ60S
Input	kW	25	38	51	25	38	51	60
On Input CH	kW	22.5	34.2	45.9	22.5	34.2	45.9	54
Onw Input DHW	kW	31.5	34.2	45.9				
Efficiency Class according BED		****	****	****	****	****	****	****
Efficiency according EN677 (80/60_C part load, Hi)	%	109.7	109.1	109.3	109.7	109.1	109.3	109.3
Efficiency according EN677 (80/60_C full load, Hi)	%	97.5	97.4	97.3	97.5	97.4	97.3	97.3
Modulation Range CH (capacity 80/60°C)	kW	6.0 - 21.9	6.0 - 33.3	8.8 - 44.7	6.0 - 21.9	6.0 - 33.3	8.8 - 44.7	8.8 - 52.5
Modulation Range CH (capacity 50/30°C)	kW	6.8 - 23.9	6.8 - 36.3	9.8 - 48.7	4.9 - 23.9	6.8 - 36.3	9.8 - 48.7	9.8 - 57.3
Nox Class EN483				5				
CO ₂	%			9				
Flue Gas Temp. CH (80/60_C on low load)	_C	68	69	70	68	69	70	70
Flue Gas Temp. CH (50/30_C on low load)	_C			31				
Gas Consumption G20 at 1013mbar/15_C CH (dhw)	m ³ /h	2.38(3.33)	3.62 (3.62)	4.86 (4.86)	2.38	3.62	4.86	5.71
Max. Electrical Power Consumption	W	106	165	150	106	165	150	168
Electrical Power Consumption - Standby	W			10				
Electrical Power Supply	V/Hz			230/50				
Degree of protection acc. EN60529				IPX0D				
Water Content CH	l	5	5	7	3.5	5	7	7
Water Content DHW	l	14	14	14	-	-	-	-
Pump Over-run CH	min		15					
Pump Over-run DHW	min	1	1	1	-	-	-	-
Water Pressure Heating min./max.	bar				1/3			
Water Pressure DHW max.	bar				8			
Flow Temperature max.	_C				85			
Pump type (Grundfos)	UPER	20-60	20-60	20-70	20-60	20-60	20-70	20-70
Available Pump Head CH	kPa	29	20	-	32	22	-	-
DHW Flow (@38°C)	l/min	13.4	16.6	23.2	-	-	-	-
DHW Flow (@60_C)	l/min	7.5	9.3	13	-	-	-	-
DHW Temperature (T _{in} =10°C)	°C	60	60	60	-	-	-	-
CE Product Identification Number (PIN)					0063803021			
Expansion Vessel Content	l	12	12	-	-	-	-	-
Expansion Vessel Pre-Charge	bar	1	1	-	-	-	-	-
Dimensions								
Height	mm				680			
Width	mm	840	840	1000	500	500	660	660
Depth	mm				370			
Gas Connection	inch	½" female	½" female	¾" female	½" female	½" female	¾" female	¾" female
Heating Flow/Return Connection	mm	28	28	35	28	28	35	35
DHW Connection	mm	15	15	15	-	-	-	-

01/08/07 - The Company reserves the right to change the specification and dimensions without prior notice

S-HQ BOILER



The advantage derived from long experience

STREBEL's objective is the protection of the environment and the economic utilisation of the Earth's existing energy reserves. This objective can only be achieved by responsible behaviour and by applying intelligent technique compatible with ecology. This has always been STREBEL's aim in the design of boilers. Due to strict legislation in Zurich, STREBEL have had to market boilers that are low in emissions and high in efficiency. The SHQ Condensing Boiler meets these criteria.

Until today it seemed impossible to improve boilers that were already recognised and appreciated, particularly in respect of the protection of the environment. The SHQ satisfies the criteria for maximum saving of energy and for emissions that are low in harmful substances. By combining research and planning, we have succeeded in achieving the decisive step towards a completely new technology of heating, the new SHQ boiler.

Control Tower

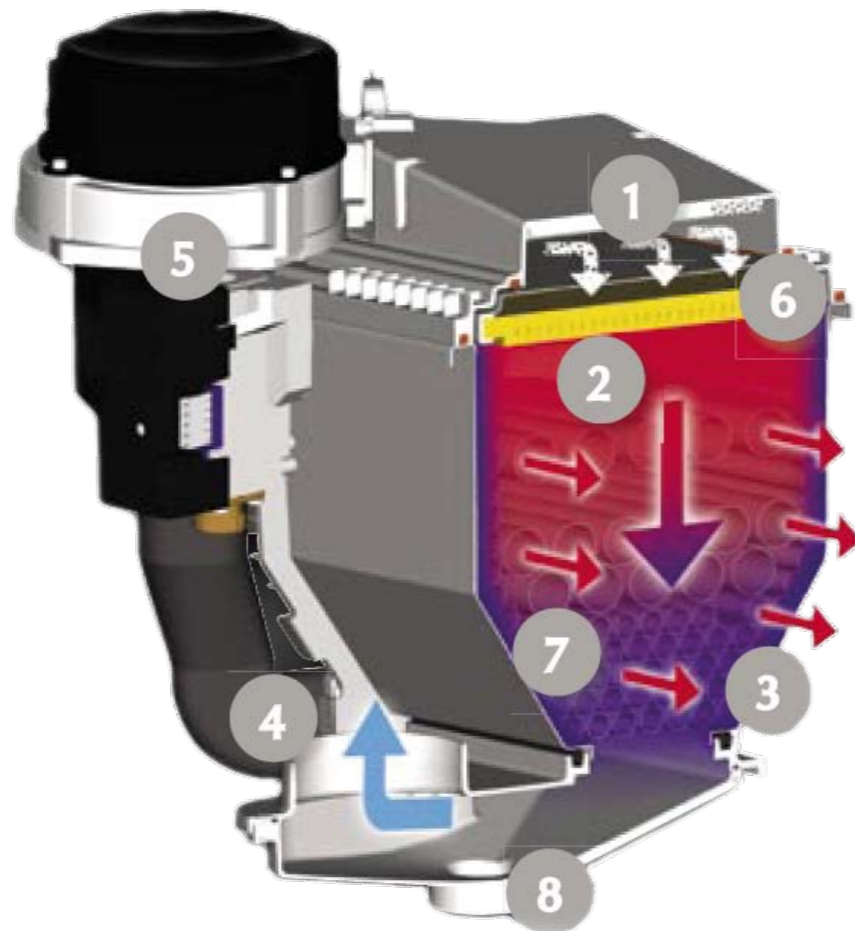
With the control tower, it is possible to control and command all the operational functions with maximum precision from within the boiler. The result is safety and a high level of operational comfort even when the application lacks favourable conditions. The function "reliability" has an absolute priority and is

guaranteed by the automatic and continuous adjustment of the boiler. The requirements for low pollution dictated by "Blue Angel" and the rigid "Hamburg Promotion Programme" are exceeded by the SHQ. Its components are designed for longevity, and features a ceramic down firing burner, Stainless Steel Heat Exchanger with smooth self-cleaning tubes and modular construction, leading the way to minimum maintenance.

This gas boiler and its control possibilities, constitute the best investment, together offering a drastic reduction of heating costs, carbon emissions and protection of our environment.

Stainless Steel Heat Exchanger

- 1 Gas - Air mix
- 2 Combustion of Gas - Air mix
- 3 Hot CH Water
- 4 Flue Gases
- 5 Gas - Air Regulation
- 6 Downwards Firing Ceramic Burner
- 7 Smooth Stainless Steel Pipes
- 8 Condensate Outlet



pressures and boiler run hours are available. Simple programming possibilities of plant type, operating temperatures, climatic curve, and boiler output, are easily altered with the on-board control keypad. Frost protection, automatic venting, and variable speed pump, are all included as standard.

Brief technical Information:

S-HQ Range

The S-HQ range has four heating boilers with outputs 22.5kW, 34.2kW, 45.9kW and 54kW plus a further range of three combi boilers. Each boasts a fully enclosed combustion chamber offering room sealed concentric, or separate, flue gas systems, dependant on the requirements of the user.

The boilers feature a Stainless Steel Heat exchanger, with water side pre-cast Aluminum headers, electronic ignition, electronic computerised control, with inbuilt temperature and pressure sensors. Visual L.C.D display of function mode, fault indication, outside temperature, operating

The pre-mix ceramic matrix burner allows full control of combustion minimizing the emission of polluting substances qualifying for NOX (EN483) class 5 and a very low flue gas exit temperature of water return temperature + 5°C.

S-HQ C

The S-HQ C combi range of boilers has outputs of 22.5kW, 34.2kW and 45.9kW. They offer Hot Water Supply outputs of 13.4l/min, 16.6l/min, and 23.2 l/min, at 38°C. A hot water priority valve, or the possibility of programmable shared load on larger boilers, is inbuilt. A thermostatic regulator controlling the HWS temperature is fitted to all Boilers as standard. The ultra compact inbuilt calorifier is fully insulated to maintain efficiency, direct mains water connection is also possible with a secondary return capability.

A calorifier with storage can also be supplied for positioning adjacent to the boiler.

