

BREEAM 2018  
MAX 2 POINTS

S-FX

Ultra Low NOx  
Floor Standing Condensing Boiler

70 – 320kW

## Ultra Low NOx Floor Standing Condensing Boiler

The S-FX range comprises four floor standing models of a highly efficient, stainless steel, ultra low NOx emission gas condensing 'vertical tube bundle' boiler offering an output range from 15kW to 320kW at 50°C/30°C (F/R) with 70kW, 125kW, 220kW and 320kW individual boiler nominal outputs. Each boiler offers NOx emissions of less than 24 mg/kWh (Class 6) in compliance with the maximum 2 credits available under BREEAM's New Construction 2018 1.0 Technical Manual SD5078 guidelines. With Seasonal Efficiency across the range in excess of 96.75% to Part L calculations the entire range is also extremely fuel efficient due to the combination of 'near perfect' flat-plate pre-mix burner combustion combined with the benefits of dual gas and water side turbulence around the uniquely shaped heat exchanger tubes.

The S-FX boiler offers a large water content design with no minimum flow rate removing the need for an additional primary side circulation pump. The S-FX 320kW boiler has generous water content of 550 litres. Additionally, the boiler can also be configured to store water at a predetermined temperature set-point to act as an 'on demand' buffer of hot water so that, for example, a cascade of three S-FX 320 boilers could provide space heating as well as acting as a 1650 litre vessel. The boiler is flued from the bottom and has three positional options for rear hydraulic connections.

**Please visit our website for further information.**

**[www.strebel.co.uk](http://www.strebel.co.uk)**

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## Digital Controls

The S-FX boiler is supplied with a built-in cascade controller to enable up to 6 boilers to be configured together offering a maximum of 2MW output in a single cascade for heating and hot water installation.

The controller will accept a 0-10 volt signal or can be switched on and off from any control device.

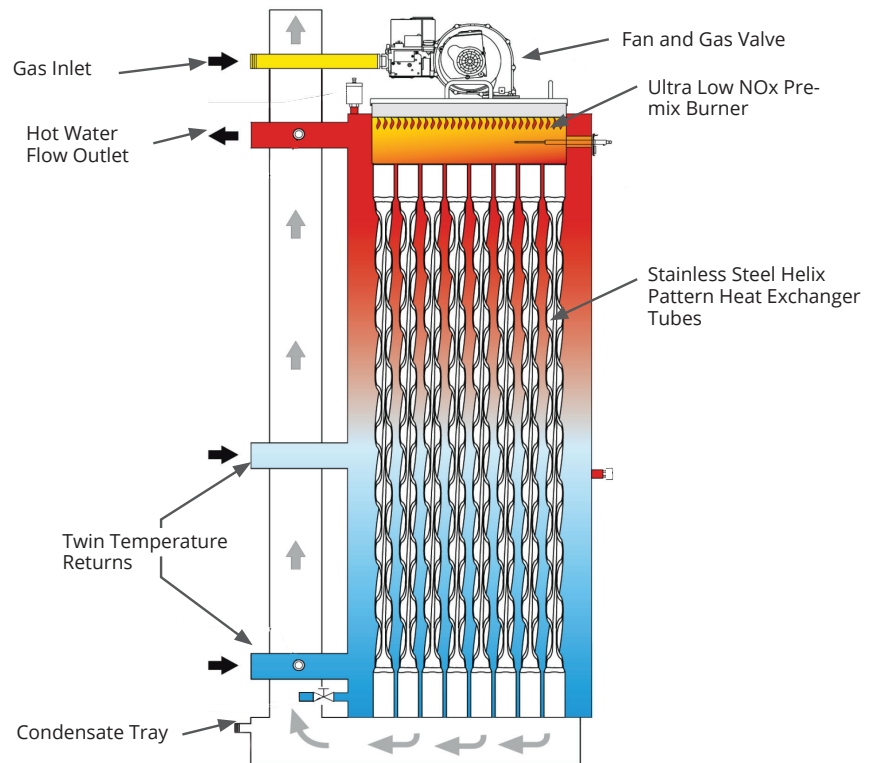
Control Panel





# S-FX Ultra Low NOx

- Large water content design
- Under 24 mg/kWh NOx. Qualifies for maximum 2 points under BREEAM 2018
- 96.8% Part L Seasonal Efficiency
- Single controller cascade output up to 2MW
- Five Year Warranty on Stainless Steel Heat Exchanger
- No individual shunt pump required



S-FX cascade system

# Strebel S-FX Technical Data

		Technical Specifications			
Model		S-FX 70	S-FX 125	S-FX 220	S-FX 320
Nominal INPUT Min/Max (Nett)	kW	14.0 - 65.5	23.0 - 116.0	41.0 - 207.0	62.0 - 299.0
Nominal OUTPUT 80/60°C at 100%	kW	13.7 - 64.4	22.5 - 114.0	40.2 - 204.0	60.8 - 294.5
Nominal OUTPUT 50/30°C at 100%	kW	15.0 - 69.9	24.8 - 125.0	44.2 - 220.0	66.8 - 320.0
Efficiency (Return Temperature 30°C)	%	109.70	109.70	109.50	109.70
Gas Consumption					
Natural Gas (G20)	m3/hr	1.48 - 6.39	2.43 - 12.28	4.34 - 21.9	65.56 - 31.64
LPG (G31)	m3/hr	1.09 - 5.09	1.79 - 9.01	3.19 - 16.08	4.82 - 23.23
Emissions & Efficiency Data					
NOx Emissions (EN15502-1:2012)	mg/kWh	18	17	22	20
NOx Class EN15502 - 1	-	6	6	6	6
Flue Gas Temperature (80/60°C)	°C	60 - 68	60 - 66	61 - 67	61 - 67
Seasonal Space Efficiency - ERP	%	94	94	94	94
30% Part Load Efficiency - Gross	%	98.7	98.8	98.6	98.8
100% Full Load Efficiency - Gross	%	88.5	88.1	88.6	88.7
Seasonal Efficiency - Building Regulations Part L					
Gross Seasonal Efficiency	%	96.76	96.77	96.70	96.88
Electrical Information					
Electrical Power Supply	V/Hz	230 / 50	230 / 50	230 / 50	230 / 50
Protection Class	IP	X0D	X0D	X0D	X0D
Power Consumption	W	105	200	260	330
Additional Boiler Information					
Maximum Flow Temperature	°C	95	95	95	95
Working Pressure Min / Max	Bar	0.5 - 6.0	0.5 - 6.0	0.5 - 6.0	0.5 - 6.0
Boiler Water Content	Litres	116	265	386	530
Boiler Flow & Return Connections	Inch	1 1/4" BSP	1 1/4" BSP	2" BSP	DN65 F
Gas Connection	Inch	3/4" BSP	1" BSP	1" BSP	1" BSP
Flue / Air Supply Connections					
Flue Exhaust Spigot Size	mm	80	100	160	200
Boiler Dimensions & Weight					
Height	mm	1760	1780	1820	1850
Width	mm	540	660	780	900
Depth	mm	668	808	953	1113
Dry Weight	kg	180	280	400	500

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



## Customer Support

As with all Strebel products, the S-FX 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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