

S-Series

LIGHT OIL AND FUEL BURNERS

Rated Output:
23.8 KW - 240 KW



 **Saint Roch**

- 5 model range from:
23.8 kW - 240 kW
- high yields and
combustion quality
- safe working
- Low NO_x & CO₂ emissions
- Reduced noise
- Easy installation
- Smallest size to fit
with any boiler on
the market



The SAINTROCH S series of one stage light oil burners, is a complete range of products developed to respond to any request for home and commercial heating applications and/or the production of domestic hot water. The SAINTROCH burner has been designed to guarantee you high yields and exceptional combustion quality

The SAINTROCH S series is available in five different models, with an output ranging from 23.8 to 240 kW. The high-quality level guarantees safe working.

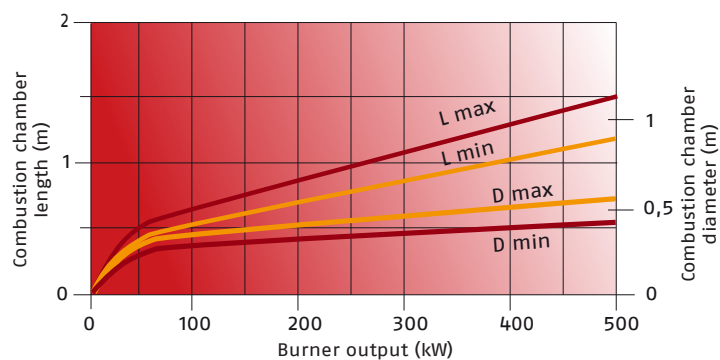
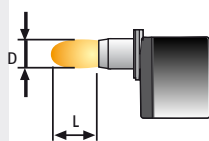
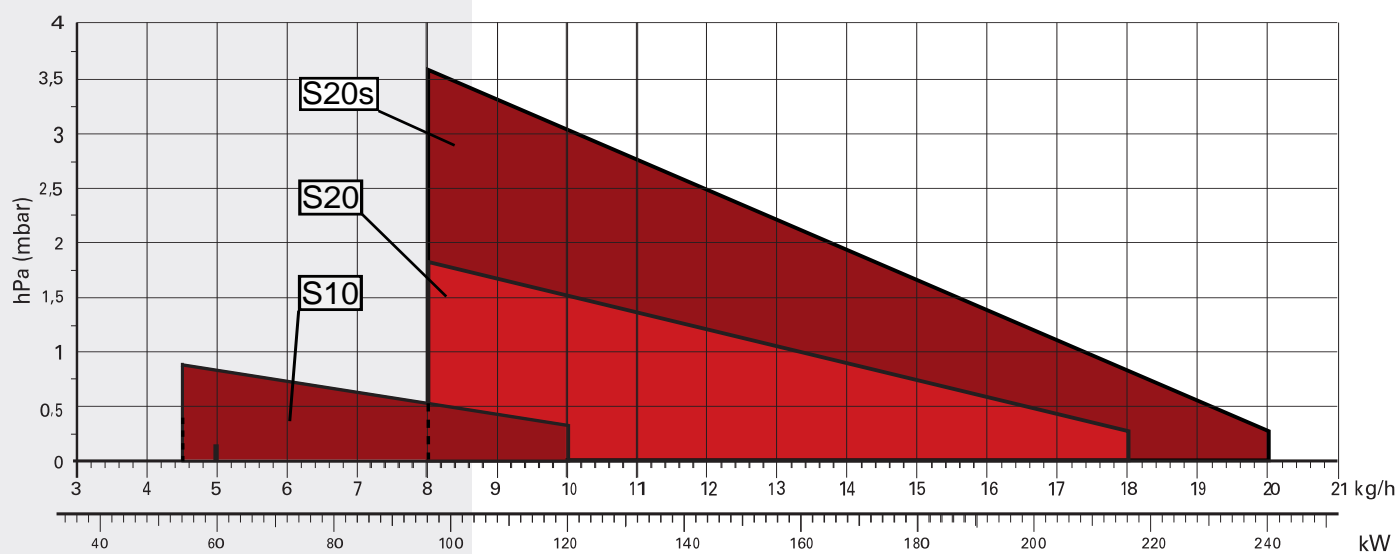
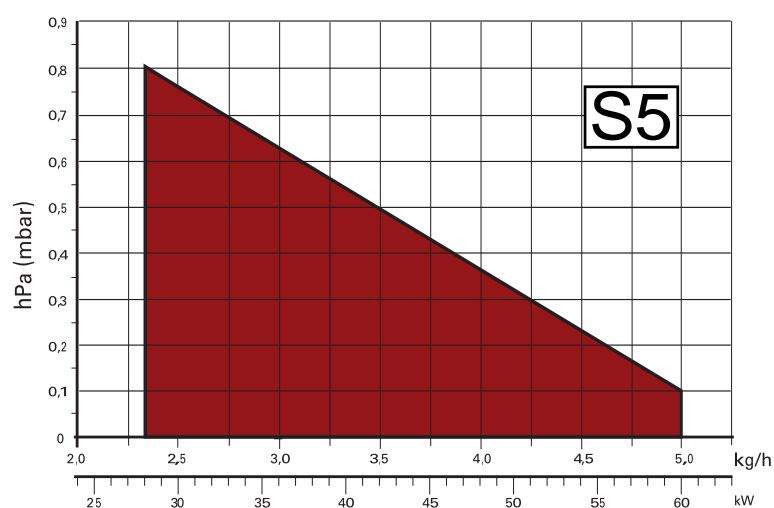
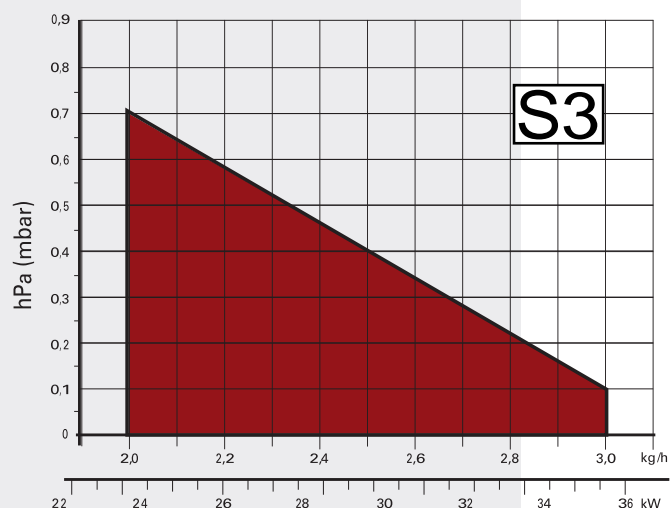
With low pollutant emissions, The SAINTROCH burner ensures clean combustion, significantly limiting NO_x and CO₂ emissions.

All SAINT ROCH burners are equipped with a special hydraulic air damper which prevents the flow of air from the ambient to the boiler, in order to avoid cooling down the boiler. Vice versa, it also prevents the flow of air from the chimney to the boiler when the boiler is stopped, in order to reduce energy losses.

In developing these burners, special attention was paid to reducing noise, to the ease of installation and adjustment, obtaining the smallest size possible to fit into any sort of boiler available on the market.

All the models are approved by the EN 267 European Standard and conform to European Directives for EMC, Low Voltage, Machinery and Boiler Efficiency.

Firing Rates



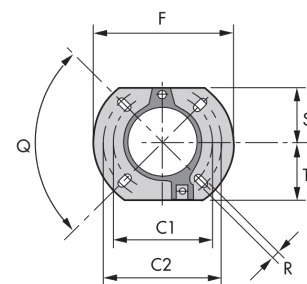
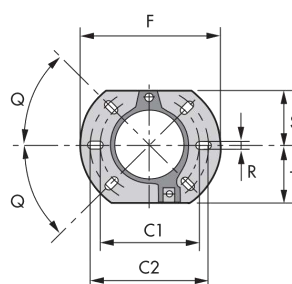
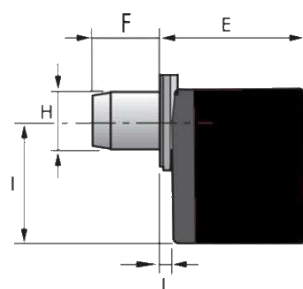
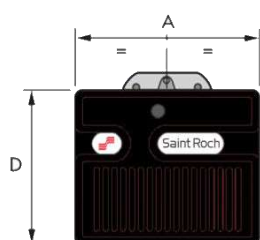
Technical Data

Model			S3	S5				S10			S20				S20S		
Heat output (Hi) ⁽¹⁾	MIn - Max	kW kcal/h	23.8 – 35.5 20400 - 30500	28 – 60 24100 - 51600				54 – 120 46400 - 103200			95 – 213 81700 - 183200				95 – 240 81700 - 206400		
operation			Intermittent (at least one stop every 24h)														
Fuel	Diesel		NCV 11.8 kWh/kg 10200 kcal/kg Viscosity at 20°C : 4 - 6 mm ² /s														
Fuel flow rate working field ⁽²⁾	kg/h		2 – 3	2.3 – 5				4.5 – 10			8 – 18				8 – 20		
Fuel temperature	°C max		50														
Atomized pressure	Bar		8 - 15														
Nozzle (Danfoss)	size		0.65 x 80°	0.75 x 60°	0.85 x 60°	1 x 60°	1.25 x 60°	1.5 x 60°	1.75 x 60°	2 x 60°	2.25 x 60°	2.5 x 60°	2.75 x 60°	3 x 60°	3.25 x 60°	3.5 x 60°	3.75 x 60°
	fuel consumption (l/h)		2.463	2.842	3.221	3.79	4.737	5.685	6.632	7.58	8.527	9.475	10.422	11.37	12.317	13.265	14.212
Electrical supply			1 phase / 230V / 50Hz														
Electrical power	kW		0.15	0.13				0.17			0.32				0.33		
Protection level			IP40														
Weight	kg		10	12				13			16				17.5		
CO emissions	mg/kWh		16	10				15			20				20		
NOx emissions	mg/kWh		170	180				190			180				190		
Noise levels ⁽³⁾																	
Sound pressure	dB(A)		57	59				65			74				72		
Sound power			68	70				76			85				83		

(1) Reference conditions: Room temperature 20°C - Fuel temperature 15°C - Barometric pressure 1013 mbar - Altitude 0 m above sea level.
(2) needed for selecting proper nozzle based on flow rate capacity
(3) Sound pressure measured in manufacturer's combustion laboratory, with burner operating on test boiler and at maximum rated output. The sound power is measured with the "Free Field" method, as per EN 15036, and according to an "Accuracy: Category 3" measuring accuracy, as set out in EN ISO 3746

S3 - S5 - S10

S20 - S20S



MODEL	A	D	E	F	H	I	L
S3	252	215	203	86	89	164	19
S5	272	233	236	107 - 180	89	180	37
S10	305	262	261	108 - 250	105	204	40
S20	350	298	295	118 - 260	125	230	41
S20 S	350	298	295	118	125	230	41

MODEL	C1	C2	F	Q	R	S	T
S3 - S5	130	150	180	45°	11	72	75
S10	140	170	189	45°	11	83	83
S20 - S20S	160	190	213	90°	11	99	99



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