

Genesis ST

stainless steel oil fired condensing boiler



OUTPUT
(kW)

110 - 642

Genesis ST

The Genesis ST floor standing, oil fired, condensing boiler is available in a range of 10 models from 110 - 642kW, with a shell and tube design offering thermal efficiency up to 97.9% net and flow temperatures of up to 90°C. The Genesis ST boiler has a narrow width, making it suitable for installation in areas with space constraints.

5yr
Warranty*

2
stage oil
burners

Stainless
Steel

key features

- Stainless steel
- Narrow width
- Matched 2 stage oil burner
- Comprehensive control panel
- System temperature of up to 90°C
- 5 bar working pressure
- Alternate door directions (right or left opening)

warranty

- 5 year boiler warranty*
- 2 year burner warranty*

GX burner



MODELS

110 - 345

FGP burner



MODELS

435 - 642

TECHNICAL DATA

		MODEL										
		110	148	185	230	285	345	435	520	570	642	
power	Nominal output	kW	110	148	185	227	286	345	437	519	570	642
	Net input	kW	113	152	190	232	292	352	459	546	599	674
hydraulic	System design flow rate (10°C ΔT rise)	l/s	2.61	3.52	4.40	5.40	6.80	8.21	10.39	12.35	13.58	15.26
	System design flow rate (15°C ΔT rise)	l/s	1.74	2.34	2.93	3.60	4.53	5.47	6.93	8.23	9.05	10.17
	System design flow rate (20°C ΔT rise)	l/s	1.30	1.76	2.20	2.70	3.40	4.10	5.19	6.17	6.79	7.63
	Hydraulic resistance (10°C ΔT rise)	kPa	1.52	2.24	3.59	2.24	3.14	5.16	4.03	4.93	6.05	7.85
	Hydraulic resistance (15°C ΔT rise)	kPa	0.68	1.00	1.60	1.00	1.40	2.30	1.80	2.2	2.70	3.50
	Hydraulic resistance (20°C ΔT rise)	kPa	0.38	0.56	0.89	0.56	0.78	1.29	1.00	1.05	1.51	1.96
	Shunt recirculation flow rate	l/s	25-30% of boiler system design flow rate									
	Max flow temperature	°C	90									
	Min return temperature	°C	40									
	Maximum working pressure	bar	5									
	Water content	litres	209	258	308	356	425	425	585	698	698	698
flue	Combustion chamber resistance	mbar	1.0	1.2	1.6	2.0	2.3	3.3	3.5	4.2	5.5	6.6
	Nominal flue gas mass	kg/h	173.7	233.1	290.8	356.3	447.8	539.4	703.5	835.9	918.7	1033.2
	Nominal flue gas temp	°C	66	94	94	83	90	81	124	122	116	116
	Nominal minimum flue draught	Pa	10									
oil	Fuel consumption 35 sec oil	kg/h	9.54	12.80	15.97	19.56	24.59	29.62	38.64	45.91	50.46	56.74
	Dry weight	Kg	370	430	500	545	615	620	1030	1120	1130	1130
	Full weight	Kg	579	688	808	901	1040	1045	1615	1618	1828	1828



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