

Stratton mk2 technical data

MODELS

kW
OUTPUT

All models

Stratton mk2 boiler model		Units	S2-40	S2-60	S2-70	S2-80	S2-100	S2-120	S2-150
Energy	Building regulations Part L seasonal efficiency	% gross	95.75	96.13	95.5	95.5	96.02	95.95	95.75
	SAP 2009 Annual efficiency	%	89	89.2	88.8	88.8	89.1	89.1	89
	ErP efficiency rating (modules ≤ 70kW only)		A	A	A	N/A	N/A	N/A	N/A
	Boiler output - maximum 80/60°C, NG & LPG. (S2-120 & S2-150 models Nat Gas only.)	kW	40	56.4	69.9	79.8	95.7	119.5	134
	Boiler output - maximum 50/30°C, NG & LPG. (S2-120 & S2-150 models Nat Gas only.)	kW	43	61	76.8	87.5	104.5	129.5	146
	Boiler output - minimum 80/60°C, Nat Gas.	kW	8.3	11.5	17.1	17.1	19	23.9	26.8
	Boiler output - minimum 80/60°C, LPG	kW	8.3	11.5	31.9	31.9	33.5	N/A	N/A
	Boiler input (gross) - maximum, NG & LPG. (S2-120 & S2-150 models Nat Gas only.)	kW	45.7	64.4	80	91.3	109.3	136.5	151.6
	Boiler input (nett) - maximum, NG & LPG. (S2-120 & S2-150 models Nat Gas only.)	kW	41.2	58	72.1	82.3	98.5	123	137.9
	Standby losses	W	42	51	87	87	94	104	117
Water	Water content	litres	3.6	5	9	9	10.2	12.8	15.3
	System design flow rate @ 25°C ΔT rise	l/s	0.4	0.5	0.7	0.8	0.9	1.1	1.3
	Water side pressure loss @ 25°C ΔT rise	mbar	205	224	176	205	246	314	380
	System design flow rate @ 20°C ΔT rise	l/s	0.5	0.7	0.8	0.9	1.1	1.4	1.6
	Water side pressure loss @ 20°C ΔT rise	mbar	320	350	275	320	385	490	580
	System design flow rate @ 11°C ΔT rise	l/s	0.9	1.2	1.5	1.7	2.1	2.6	2.9
	Water side pressure loss @ 11°C ΔT rise	mbar	1058	1157	909	1058	1273	1620	1700
	Minimum water pressure	barg	1.5	1.5	1.5	1.5	1.5	1.5	1.5
	Maximum water pressure	barg	4	4	4	4	4	4	4
	Maximum flow temperature setting	°C	85	85	85	85	85	85	85
Gas	Gas flow rate, NG (G20) - maximum	m³/hr	4.4	6.1	7.6	8.7	10.4	13	14.6
	Maximum gas inlet pressure, Nat Gas	mbar	25	25	25	25	25	25	25
	Nominal gas inlet pressure, Nat Gas	mbar	20	20	20	20	20	20	20
	Minimum gas inlet pressure, Nat Gas	mbar	17	17	17	17	17	17	17
	Gas flow rate, LPG (G31) - maximum	m³/hr	1.7	2.4	3	3.4	4	N/A	N/A
	Nominal gas inlet pressure, LPG	mbar	37.5	37.5	37.5	37.5	37.5	N/A	N/A
Flue	Approx. flue gas volume Nat Gas @ 15°C, 9.1–9.3% CO ₂ @ N.T.P	m³/hr	57	79	98	112	135	168	189
	Maximum flue gas temperature @ 80/60°C Nat Gas	°C	80	76	70	74	76	70	70
	Pressure at boiler flue spigot @ 80/60°C Nat Gas	Pa	156	200	123	179	187	200	200
	Approx. flue gas volume LPG @ 15°C, 10.3–10.5% CO ₂ @ N.T.P	m³/hr	55	77	96	109	128	N/A	N/A
	Maximum flue gas temperature @ 80/60°C LPG	°C	81	78	69	73	75	N/A	N/A
	Pressure at boiler flue spigot @ 80/60°C LPG	Pa	126	200	105	150	138	N/A	N/A
Electrics	Dry NOx emission (0% excess oxygen, mg/kWh dry air free)	mg/kWh	36	35	35	35	34	36	35
	Electrical supply		230 V 1 Ph 50 Hz	230 V 1 Ph 50 Hz	230 V 1 Ph 50 Hz	230 V 1 Ph 50 Hz	230 V 1 Ph 50 Hz	230 V 1 Ph 50 Hz	230 V 1 Ph 50 Hz
	Power consumption - maximum boiler modulation	W	68	138	96	141	160	206	263
	Start current (per module)	Amp	1.2	2.4	1.68	2.8	3.2	4	4.5
	Run current (per module)	Amp	0.3	0.6	0.42	0.61	0.7	0.9	1.14
	Approx shipping weight	kg	50	60	90	90	95	100	125
Noise emission @1m: @maximum modulation	dB (A)	57.4	59.7	57.3	57.3	58.5	61.6	59.3	
Noise emission @1m: @minimum modulation	dB (A)	34.3	35.8	33.5	33.5	34.3	35.4	36.8	