Technical submittal

Products: **Wessex ModuMax mk3 WM254/508V**
Project:
Customer: Date:

- Stainless steel heat exchanger
- 10:1 turndown ratio
- Capable of 40°C differential temperature
- Operates up to 90°C maximum flow temperature
- 10 bar rated heat cell
- 10-year heat exchanger warranty
- 95.0% gross seasonal efficiency
- 479.6kW output @80/60°C
- Fits in a footprint of 680 x 1082mm
- Passes through a standard doorway
- 38.8 mg/kWh NOx emissions (natural gas)
- Noise on minimum modulation of less than 47dba
- Built-in controls platform with sequence control and capable of controlling up to 16 boiler modules and hot water circuits
- British manufactured

	Wessex ModuMax mk3 boiler model	Units	254/508V
	No. of modules		2
Energy	Building regulations Part L seasonal efficiency	% gross	95.0
	BS EN 15502 seasonal efficiency	% gross	95.3
	Boiler output 80/60°C, NG & LPG	kW	479.6
	Boiler output 50/30°C, NG & LPG	kW	508.7
	Boiler input (gross) - maximum, NG	kW	550
	Boiler input (gross) - maximum, LPG	kW	538.3
	Boiler input (nett) - maximum, NG & LPG	kW	495.3
	Boiler output - minimum 80/60°C, NG & LPG	kW	48.4
Water	Water content	litres	44
	System design flow rate @ 40°C ΔT rise	l/s	3
	Water side pressure loss @ 40°C ΔT rise	mbar	100
	System design flow rate @ 30°C ΔT rise	l/s	4
	Water side pressure loss @ 30°C ΔT rise	mbar	180
	System design flow rate @ 20°C ΔT rise	l/s	6
	Water side pressure loss @ 20°C ΔT rise	mbar	395
	System design flow rate @ 11°C ΔT rise	l/s	10.8
	Water side pressure loss @ 11°C ΔT rise	mbar	1300
	Minimum water pressure	barg	
	Maximum water pressure	barg	10
	Maximum flow temperature setting	°C	90
Gas	Gas flow rate, NG (G20) - maximum	m^3/hr	52.4
	Gas flow rate, LPG (G31) - maximum	m^3/hr	20.2
	Nominal inlet pressure, NG (LPG) - maximum	mbar	20 (37)
	Maximum gas inlet pressure NG (LPG)	mbar	25 (45)
Flue	Approx. flue gas volume @ 15°C, 8.75-9.25% CO_2	m^3/hr	708
	Maximum flue gas temperature @ 80/60°C	°C	82
	Pressure at boiler flue connection	Pa mbar	150 1.5
	Dry NOx emission (0% excess oxygen, dry air free) - NG	mg/kWh	38.8
	Dry NOx emission (0% excess oxygen, dry air free) - LPG	mg/kWh	39.9
Connection	Water flow/return connections	inches	G2½" male
	Gas inlet connection pipe thread size	inches	R1¼" male
	Nominal flue diameter (I/D)	mm	250
	Condensate trap connection(s) (O/D)	mm	32
Electrics	Electrical supply		230 V 1 Ph 50 Hz
	Power consumption - maximum boiler modulation	W	480
	Start current (per module)	Amp	1.3
	Run current (per module)	Amp	1.05
	Approx shipping weight	kg	452
	Noise emission @1m @maximum modulation	Max dB (A)	65
	Noise emission @1m @minimum modulation	Min dB (A)	47

*Dependent on ΔT - see full brochure

Technical submittal

Products: **Wessex ModuMax mk3 WM254/508V**
Project:
Customer: Date: