

Technical submittal

Products: **Upton UF500-2**

Project:

Customer:

Date:

- ⊗ Aluminium heat exchanger
- ⊗ 10:1 turndown ratio
- ⊗ 6 bar rated heat cell
- ⊗ 5-year heat exchanger warranty
- ⊗ 94.3% gross seasonal efficiency
- ⊗ 458.8kW output @80/60°C
- ⊗ Fits in a footprint of 700 x 940mm
- ⊗ Passes through a standard door width
- ⊗ 35mg/kWh NOx emissions gross (natural gas)
- ⊗ Noise at maximum modulation of 58.5dba
- ⊗ Built-in controls platform with sequence control and capable of controlling up to 16 boiler modules and hot water circuits
- ⊗ British manufactured



	Boiler model	Units	UF500-2
	No. of modules		2
Energy	Building Regulations Part L seasonal efficiency	% gross	94.3
	Building Regulations Part L seasonal efficiency	% nett	104.8
	Boiler output 80/60°C	kW	458.8
	Boiler output 50/30°C	kW	493.8
	Boiler input gross (maximum)	kW	523.9
	Boiler input nett (maximum)	kW	471.7
	Boiler output 80/60°C (minimum)	kW	45.9
	Boiler output 50/30°C (minimum)	kW	49.4
Water	Water content	litres	39.6
	System design flow rate @ 11°C ΔT rise	l/s	10.9
	Water side pressure loss @ 11°C ΔT rise	mbar	767
	System design flow rate @ 20°C ΔT rise	l/s	6
	Water side pressure loss @ 20°C ΔT rise	mbar	234
	Minimum operating water pressure	barg	0.5
	Maximum operating water pressure	barg	5.3
	Maximum water pressure	barg	6
	Maximum flow temperature setting	°C	85
	Minimum flow temperature setting	°C	30
Gas	Gas flow rate (maximum) (Nat gas)	m³/hr	49.9
	Nominal inlet pressure (Nat gas)	mbar	20
	Maximum inlet pressure (Nat gas)	mbar	25
Flue	Approx flue gas volume @ 72°C, 9.0% CO ₂	m³/hr	788
	Maximum flue gas temperature @ 80/60°C	°C	72
	Maximum flue gas temperature @ 50/30°C	°C	42
	Pressure available at flue connection	Pa (mbar)	130 (1.3)
	NO _{x,pond,Hs} (gross) emission (0% excess oxygen, dry air) (Nat gas)	mg/kWh	35
	NO _{x,pond} (nett) emission (0% excess oxygen, dry air) (Nat gas)	mg/kWh	39
	NO _x Class		6
Connection	Water flow/return connections	inches	R2-11
	Gas inlet connection pipe thread size	inches	G1¼
	Flue connection diameter (I/D)	mm	250
	Condensate trap connections (O/D)	mm	34
Electrics	Electrical supply		230V ~ 50Hz
	Power consumption - maximum boiler modulation	W	570
	Run current (per module)	Amp	1.2
	Approx shipping weight	kg	476
	Noise emission @1m @max modulation (per module)	Max dB (A)	58.5

*Dependent on ΔT - see full brochure

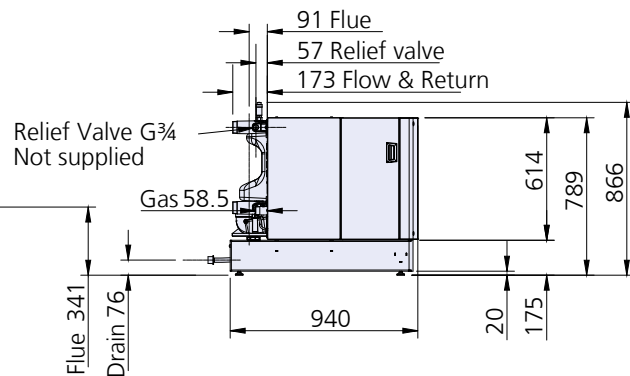
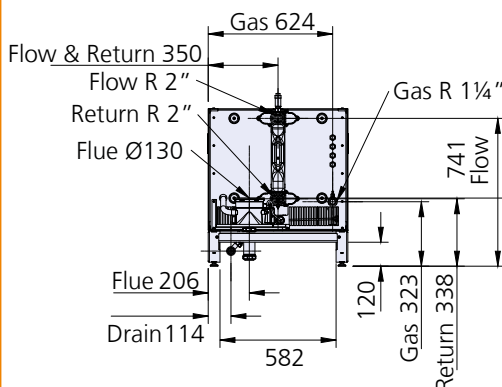
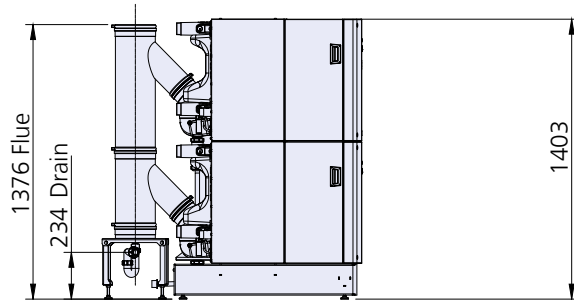
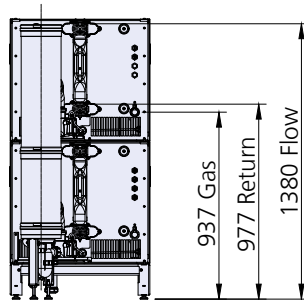
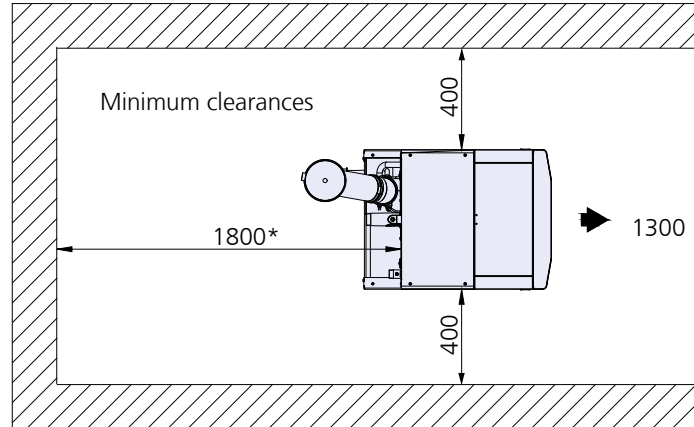
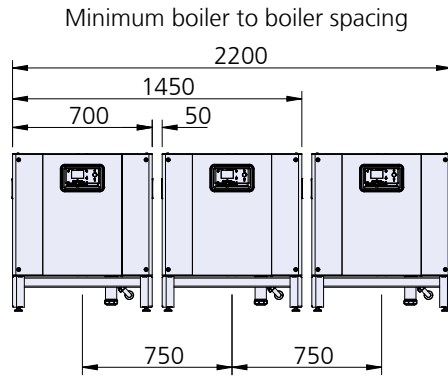
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***Note:** Rear clearance required when using Hamworthy pipe kits.

All dimensions in mm unless otherwise stated.