

VANGUARD L.

3000 - 4000kW

PRESSURE JET



Vanguard L boilers are designed with a large combustion chamber positioned in the lower part of the heat exchanger. The Vanguard L range ensures maximum heat transfer efficiency (up to 92.5% nett) and is capable of an impressive output to size ratio.

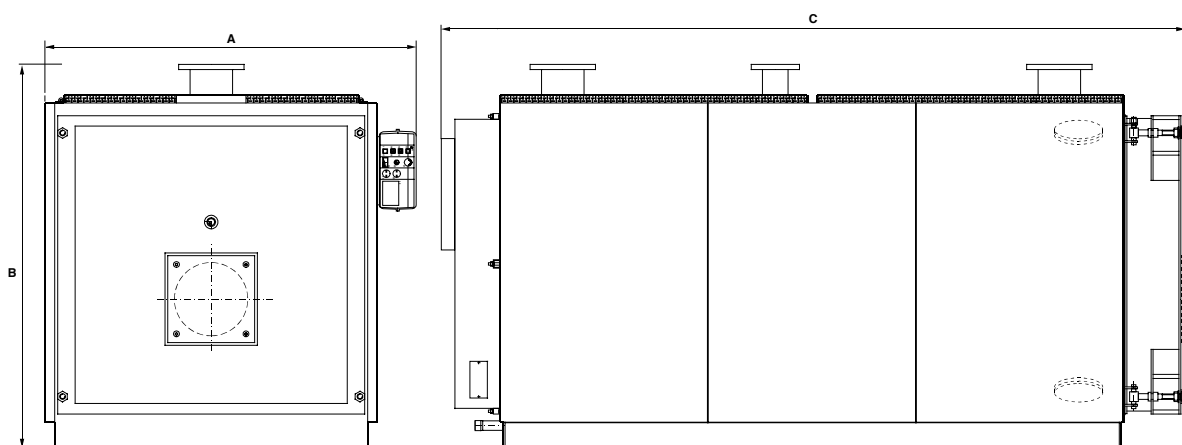
FEATURES AND BENEFITS

- High efficiency (full and part load)
- Minimal emissions
- Reverse flame steel heat exchanger
- Compact size
- Easy to install and service
- Minimum return temperature 50°C
- Building Regulations L2 Compliant
- Natural gas, oil fired or dual fuel
- Packaged boiler; can include Nuway or Riello as standard (options on request)
- 6 bar pressure as standard

DIMENSIONS AND CLEARANCES

BOILER	DIM A	DIM B	DIM C
3000	1910	1990	3835
3500	2160	2271	3879
4000	2160	2271	4279

The following minimum clearances must be maintained for operation and servicing:



For full details of all configurations and specifications, please refer to the Vanguard L installation manual.

All dimensions in mm



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VANGUARD L 3000 - 4000kW

TECHNICAL SPECIFICATIONS.



MODEL		3000	3500	4000
Maximum Heat Output	kW	3000	3500	4000
Minimum Heat Output	kW	2300	2700	3040
Boiler Water Content	l	2553	4862	4455
Hydraulic Resistance at 11K	mbar	113.5	153.7	83.4 (at 15k)
Hydraulic Resistance at 20K	mbar	34.3	46.5	
Combustion Chamber Resistance	mbar	60	78	80
Boiler DRY Weight Less Burner Unit	kg	5110	6700	7500
Flue Size	mm	570	620	
Maximum Flow Temperature	°C	90		
Maximum Burner Blast Tube Dia	mm	380	400	
Gas Firing Data				
Maximum Gas Rate	m ³ /h	336.8	392.8	448.9
Maximum Flue Gas Volume	m ³ /sec	1.75	2.04	2.33
Maximum Flue Gas Temperature at 9% CO ₂	°C	195	195	167 (9.8%)
Seasonal Efficiency	%	84.18	84.18	84.19
Oil Firing Data				
Maximum Oil Rate	l/h	336.6	391.9	448.9
Maximum Flue Gas Volume	m ³ /sec	1.72	1.99	2.33
Maximum Flue Gas Temperature at 13% CO ₂	°C	195	195	179
Seasonal Efficiency	%	84.18	84.18	84.19
Minimum Flow Rates				
Normal Water Flow Rate Temperature Difference 11°C (20°F)	l/s	65.14	76.00	46.51
Minimum Water Flow Rate Temperature Difference 35°C (63°F)	l/s	35.83	41.80	27.82

CONVERSIONS.

- 1 kW = 3412 Btu/h
- 1 litre = 0.22 gallons
- 1 mbar = 0.4 in.w.g.
- 1 kg = 2.2 lb
- 1m³/h = 35.315 ft³/h
- 1m³/sec = 2120 ft³/min
- 1l/h = 0.220 gal/h
- 1l/s = 13.198 gal/min

GET A QUOTE.

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