

# VANGUARD L

3000 - 4000kW

**1** YEAR WARRANTY\*



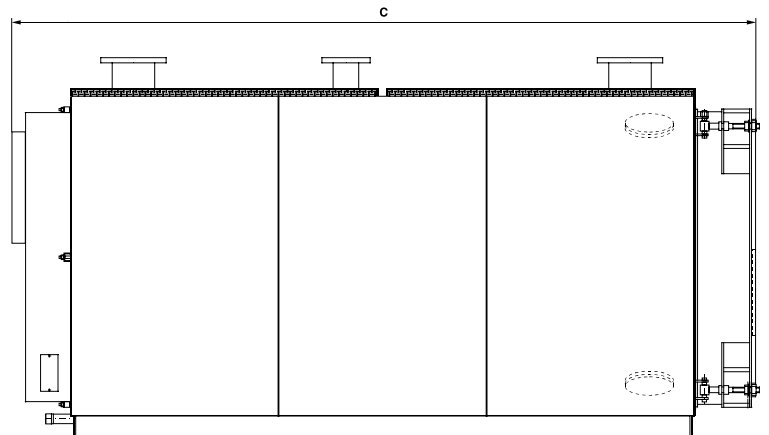
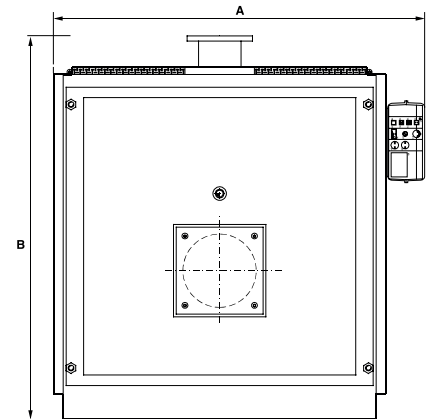
Vanguard L boilers are designed with a large combustion chamber positioned in the lower part of the heat exchanger. The Vanguard L range ensures maximum heat transfer efficiency (up to 92.5% nett) and is capable of an impressive output to size ratio.

## FEATURES & 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 & 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:

- ↑ TOP: 1000mm
- ↔ SIDES: LH 100mm | RH 200mm +burner
- FRONT: SAME AS BOILER
- ↓ REAR: 500mm

# 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	620
Maximum Flow Temperature	°C	90	90	90
Maximum Burner Blast Tube Dia	mm	380	400	400

GAS FIRING DATA				
Maximum Gas Rate	m <sup>3</sup> /h	336.8	392.8	448.9
Maximum Flue Gas Volume	m <sup>3</sup> /sec	1.75	2.04	2.33
Maximum Flue Gas Temperature at 9% CO <sub>2</sub>	°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 <sup>3</sup> /sec	1.72	1.99	2.33
Maximum Flue Gas Temperature at 13% CO <sub>2</sub>	°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	• 1m <sup>3</sup> /h = 35.315 ft <sup>3</sup> /h
• 1 litre = 0.22 gallons	• 1m <sup>3</sup> /sec = 2120 ft <sup>3</sup> /min
• 1 mbar = 0.4 in.w.g.	• 1l/h = 0.220 gal/h
• 1 kg = 2.2 lb	• 1l/s = 13.198 gal/min



\*1 year warranty subject to Terms and Conditions.

# GET A QUOTE

**W: IDEALCOMMERCIALBOILERS.COM**  
**E: commercial@idealboilers.com**  
**T: 0844 5436060**