ideal HEATING

VANGUARD L

3000 - 4000kW

1 YEAR WARRANTY*

Easy To Install And Service

Compact Size

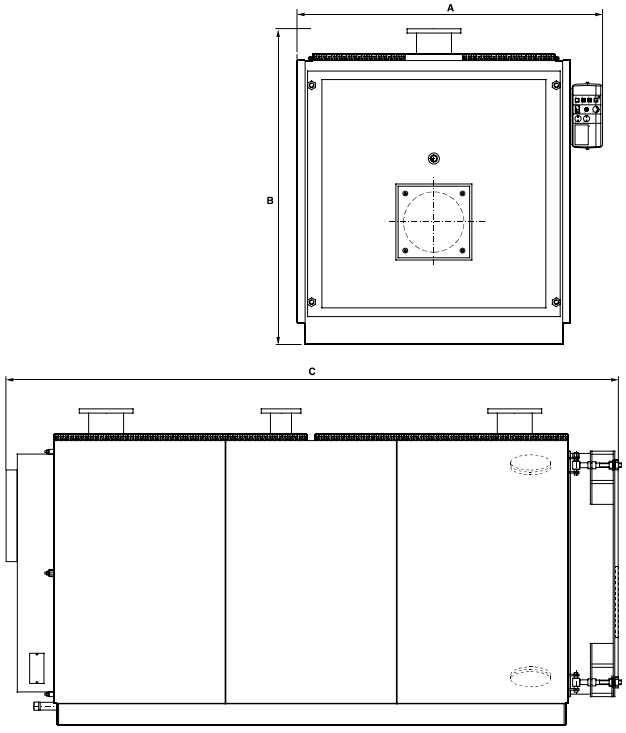
Minimal Emissions

L2 Compliant

Features & Specification

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.

- 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



All dimensions in mm

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

DIMENSIONS & CLEARANCES

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

TOP: 1000mm

SIDES: LH 600mm | RH 600mm

FRONT : SAME AS BOILER

REAR: 1000mm

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EXPERTS IN HEATING

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^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% CO2	°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% CO2	°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	$1m^3/h = 35.315\ ft^3/h$
1 litre = 0.22 gallons	$1m^3/sec = 2120\ ft^3/min$
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.

Note: for boilers with a thermal input of 1MW or greater please contact your Ideal Heating representative to confirm any requirements relating to the Medium Combustion Plant Directive.