

# VANGUARD L.

420 - 630kW

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.

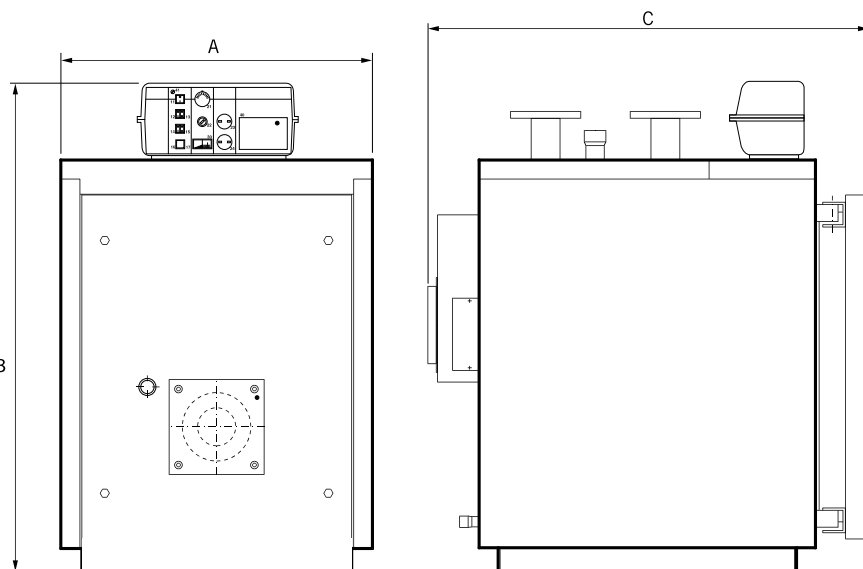
### FEATURES AND BENEFITS

- 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
420	890	1542	1606
510	890	1542	1801
630	890	1542	2113

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



IDEAL COMMERCIAL BOILERS

PO Box 103, National Avenue  
Kingston upon Hull,  
East Yorkshire, HU5 4JN

T: 0844 5436060

F: 0844 5436181

E: commercial@idealboilers.com

IDEALCOMMERCIALBOILERS.COM

# VANGUARD L 420 - 630kW

## TECHNICAL SPECIFICATIONS.



MODEL		420	510	630
Maximum Heat Output	kW	420	510	630
Minimum Heat Output	kW	315	385	480
Boiler Water Content	l	398	462	565
Hydraulic Resistance at 11K	mbar	31.1	45.8	69.5
Hydraulic Resistance at 20K	mbar	9.4	13.8	21.0
Combustion Chamber Resistance	mbar	29	43	55
Boiler DRY Weight Less Burner Unit	kg	796	919	1047
Flue Size	mm	250	250	300
Maximum Flow Temperature	°C	90		
Maximum Burner Blast Tube Dia (T6)	mm	220		
<b>Gas Firing Data</b>				
Maximum Gas Rate	m <sup>3</sup> /h	42.7	51.8	64.0
Maximum Flue Gas Volume	m <sup>3</sup> /sec	0.25	0.30	0.37
Maximum Flue Gas Temperature at 9% CO <sub>2</sub>	°C	195	195	195
Seasonal Efficiency	%	84.19	84.20	84.20
<b>Oil Firing Data</b>				
Maximum Oil Rate	l/h	47.1	57.2	70.8
Maximum Flue Gas Volume	m <sup>3</sup> /sec	0.25	0.31	0.37
Maximum Flue Gas Temperature at 9% CO <sub>2</sub>	°C	195	195	195
Seasonal Efficiency	%	84.19	84.20	84.20
<b>Minimum Flow Rates</b>				
Normal Water Flow Rate Temperature Difference 11°C (20°F)	l/s	9.12	11.07	13.68
Minimum Water Flow Rate Temperature Difference 35°C (63°F)	l/s	5.02	6.09	7.52

### CONVERSIONS.

- 1 kW = 3412 Btu/h
- 1 litre = 0.22 gallons
- 1 mbar = 0.4 in.w.g.
- 1 kg = 2.2 lb
- 1m<sup>3</sup>/h = 35.315 ft<sup>3</sup>/h
- 1m<sup>3</sup>/sec = 2120 ft<sup>3</sup>/min
- 1l/h = 0.220 gal/h
- 1l/s = 13.198 gal/min

**GET A QUOTE.**

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