

# VANGUARD L

420 - 630kW



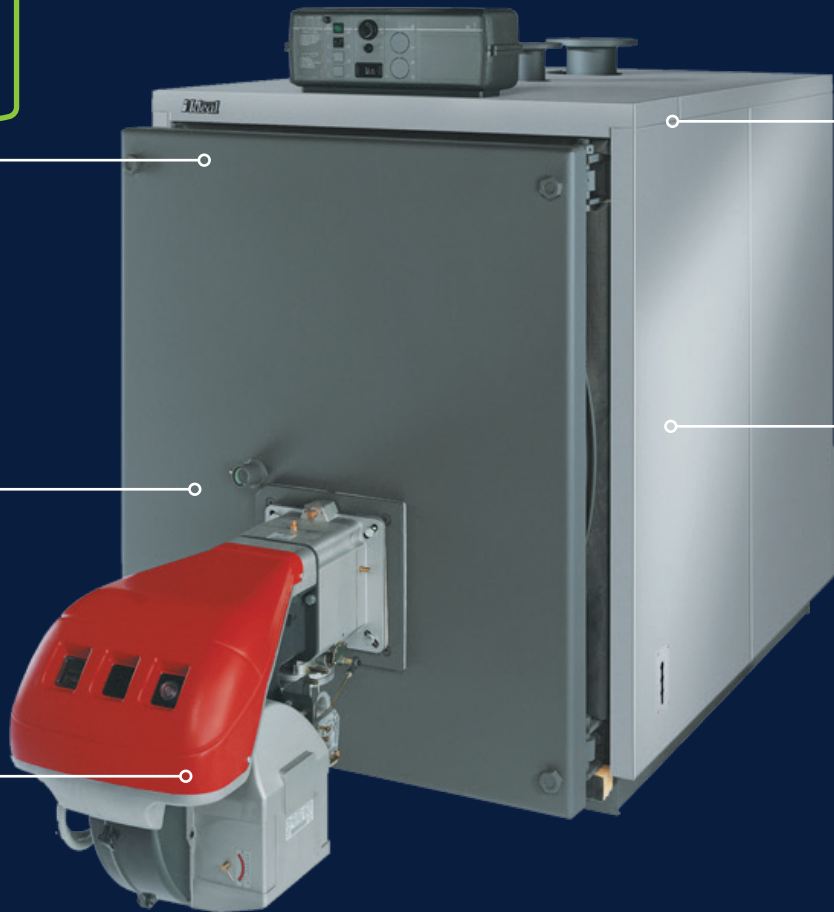
Easy To Install  
And Service



Minimal  
Emissions



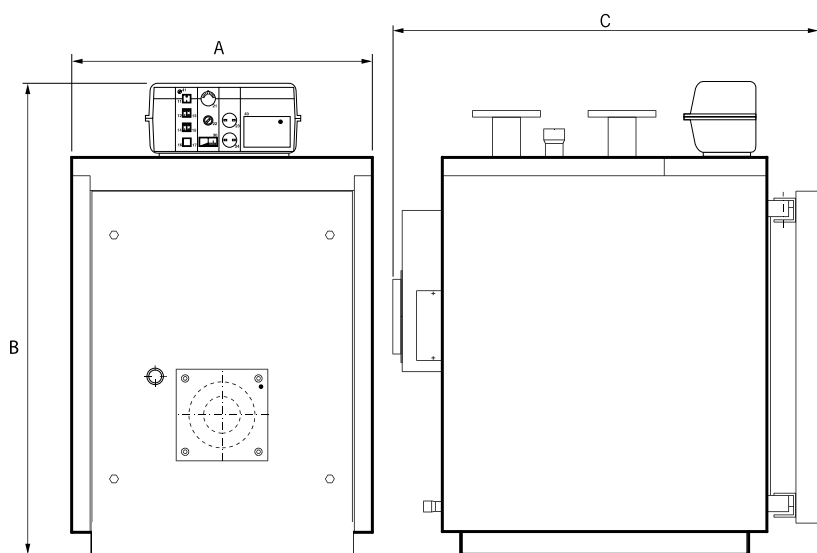
Compact Size



# 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.

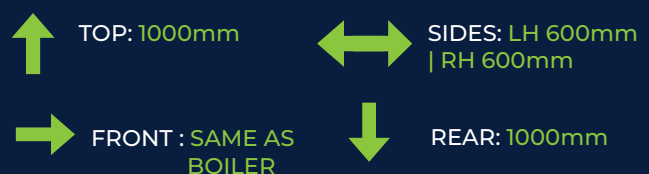
- High efficiency (full and part load)
- Minimal emissions
- Reverse flame steel heat exchanger
- Compact size
- Easy to install and service
- Natural gas, oil fired or dual fuel
- 6 bar pressure as standard
- Available as boiler body only



BOILER	DIM A	DIM B	DIM C
420	890	1542	1606
510	890	1542	1801
630	890	1542	2113

## DIMENSIONS & CLEARANCES

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



# 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	90	90
Maximum Burner Blast Tube Dia (T6)	mm	220	220	220

### GAS FIRING DATA

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

### OIL FIRING DATA

Maximum Oil Rate	l/h	47.1	57.2	70.8
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

### MINIMUM FLOW RATES

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

1kW = 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.

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