

# VANGUARD L

760 - 2650kW

**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

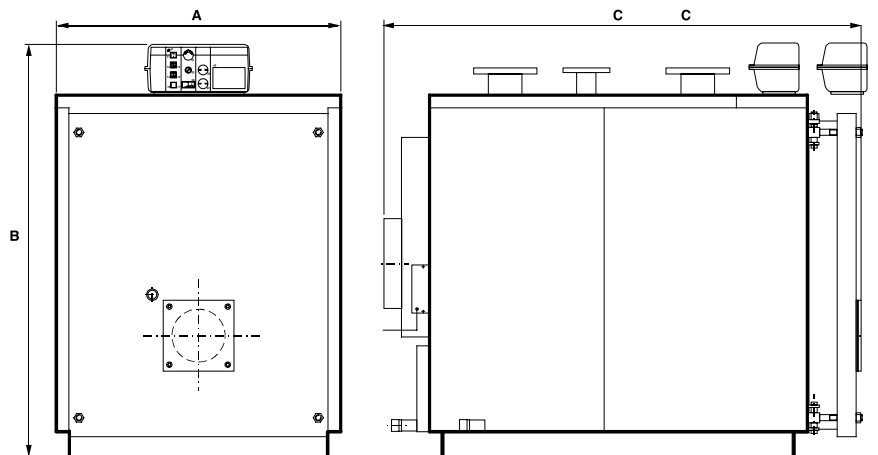
- High efficiency (full and part load)
- Minimal emissions
- Reverse flame steel heat exchanger
- Compact size
- Easy to install and service
- Minimum return temperature 50°C
- Building Regulations L2 Compliant
- Natural gas, oil fired or dual fuel
- Packaged boiler; can include Nuway or Riello as standard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

## DIMENSIONS & CLEARANCES

BOILER	DIM A	DIM B	DIM C
760	1122	1622	1989
870	1122	1622	2184
970	1122	1622	2379
1100	1352	1622	2346
1320	1352	1622	2686
1570	1462	1732	2781
1850	1462	1732	3151
2200	1622	1892	3225
2650	1622	1892	3545

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 760 - 2650kW

## TECHNICAL SPECIFICATIONS



MODEL		760	870	970	1100	1320	1570	1850	2200	2650
Maximum Heat Output	kW	760	870	970	1100	1320	1570	1850	2200	2650
Minimum Heat Output	kW	580	660	750	860	1000	1200	1400	1700	2000
Boiler Water Content	l	671	753	836	1040	1242	1418	1617	2086	2324
Hydraulic Resistance at 11K	mbar	47.6	60.4	75.0	54.9	64.1	60.4	82.4	62.2	87.8
Hydraulic Resistance at 20K	mbar	14.4	18.3	22.7	16.6	19.4	18.3	24.9	18.8	26.6
Combustion Chamber Resistance	mbar	51	57	49	52	67	60	73	65	76
Boiler DRY Weight Less Burner Unit	kg	1341	1447	1553	1821	2030	2780	3280	4145	4465
Flue Size	mm	350	350	350	400	400	450	450	520	520
Maximum Flow Temperature	°C	90	90	90	90	90	90	90	90	90
Maximum Burner Blast Tube Dia (T6)	mm	270	270	270	320	320	320	320	380	380

### GAS FIRING DATA

Maximum Gas Rate	m <sup>3</sup> /h	84.9	97.1	108.3	122.8	147.5	175.4	206.7	246.3	296.4
Maximum Flue Gas Volume	m <sup>3</sup> /sec	0.45	0.52	0.57	0.65	0.78	0.93	1.08	1.26	1.51
Maximum Flue Gas Temperature at 9% CO <sub>2</sub>	°C	195	195	195	195	195	195	195	195	195
Seasonal Efficiency	%	84.20	84.20	84.19	84.22	84.19	84.20	84.20	84.22	84.22

### OIL FIRING DATA

Maximum Oil Rate	m <sup>3</sup> /h	85.2	97.4	108.6	123.2	147.9	176.0	207.4	247.1	297.3
Maximum Flue Gas Volume	m <sup>3</sup> /sec	0.44	0.52	0.56	0.64	0.76	0.91	1.07	1.26	1.52
Maximum Flue Gas Temperature at 9% CO <sub>2</sub>	°C	195	195	195	195	195	195	195	195	195
Seasonal Efficiency	%	84.20	84.20	84.19	84.22	84.19	84.20	84.20	84.22	84.22

### MINIMUM FLOW RATES

Normal Water Flow Rate Temperature Difference 11°C (20°F)	l/s	16.50	18.89	21.06	23.88	28.65	34.09	40.17	47.77	57.54
Minimum Water Flow Rate Temperature Difference 35°C (63°F)	l/s	9.08	10.39	11.58	13.14	15.76	18.75	22.09	26.27	31.65

### CONVERSIONS

- 1 kW = 3412 Btu/h
- 1 m<sup>3</sup>/h = 35.315 ft<sup>3</sup>/h
- 1 litre = 0.22 gallons
- 1 m<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](http://IDEALCOMMERCIALBOILERS.COM)  
 E: [commercial@idealboilers.com](mailto:commercial@idealboilers.com)  
 T: 0844 5436060