

# VISCOUNT.

## GTS14 - GTS25

### PRESSURE JET



This range of pressurised hot water boilers is designed for connecting to a flue pipe which require a separate automatic fuel-oil or gas burner. The heat output of Viscount GTS boilers range from 812 kW to 1450 kW models.

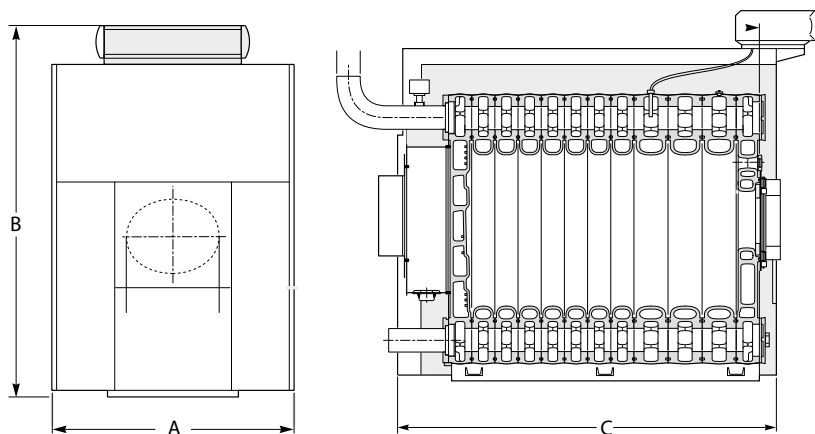
The cast iron Viscount GTS boiler range is designed to obtain the largest heat exchange surface in the most space efficient size, yet maintains long life and easy servicing. Low modulated temperature operation down to 40°C allows more fuel savings.

#### FEATURES AND BENEFITS

- High efficiency (full and part load)
- Minimal emissions
- 4 pass cast iron heat exchanger
- Compact size
- Easy to install and service
- Minimum return temperature 40°C
- Building Regulations L2 Compliant
- Gas fired, oil fired or dual fuel
- Site assembly
- Packaged boiler; can include Nuway or Riello as standard (options on request)
- Left or right hinged burner door
- 6 bar maximum operating pressure

## DIMENSIONS AND CLEARANCES

BOILER	DIM A	DIM B	DIM C
GTS14	1172	1670	2105
GTS15	1172	1670	2245
GTS16	1172	1670	2355
GTS17	1172	1670	2445
GTS18	1172	1670	2555
GTS19	1172	1670	2645
GTS20	1172	1670	2845
GTS21	1172	1670	2955
GTS22	1172	1670	3045
GTS23	1172	1670	3155
GTS24	1172	1670	3245
GTS25	1172	1670	3355



**TOP**  
850mm

**\*\* FRONT**  
1500mm

**REAR**  
SEE BROCHURE FOR DETAILS

**\* L SIDE**  
500mm / 1200mm

**\* R SIDE**  
500mm / 1200mm

For full details of all configurations & specifications, please refer to the Viscount installation manual.

\* Door opening side largest measurement.  
\*\* May be reduced dependant on burner.

All dimensions in mm



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## TECHNICAL SPECIFICATIONS.



MODEL		GTS 14	GTS 15	GTS 16	GTS 17	GTS 18	GTS 19	GTS 20	GTS 21	GTS 22	GTS 23	GTS 24	GTS 25
No. of Sections		14	15	16	17	18	19	20	21	22	23	24	25
Maximum Heat Output	kW	812	870	928	986	1044	1102	1160	1218	1276	1334	1392	1450
Minimum Heat Output	kW	754	812	870	928	986	1044	1102	1160	1218	1276	1334	1392
Boiler Water Content	l	655	693	731	769	807	845	905	743	981	1019	1057	1095
Hydraulic Resistance at 11K	mbar	55.8	64.5	26.0	27.9	32.5	35.3	40.0	44.1	48.3	52.6	57.6	62.3
Hydraulic Resistance at 20K	mbar	16.9	19.5	7.9	8.4	9.8	10.7	12.1	13.3	14.6	15.9	17.4	18.8
Combustion Chamber Resistance	mbar	2.3	2.4	2.5	2.6	2.7	2.85	3	3.1	3.2	3.3	3.4	3.5
Boiler DRY Weight Less Burner Unit	kg	3171	3364	3561	3756	3955	4124	4343	4538	4734	4930	5107	5297
Flue Size	mm	450			500				500 x 700max				
Maximum Flow Temperature	°C	90											
<b>Gas Firing Data</b>													
Maximum Gas Rate	m <sup>3</sup> /h	84.4	90.4	96.4	102.4	108.5	114.5	120.5	126.5	132.5	138.6	144.6	150.6
Maximum Flue Gas Volume	m <sup>3</sup> /sec	0.57	0.61	0.65	0.69	0.73	0.77	0.81	0.85	0.89	0.94	0.98	1.02
Maximum Flue Gas Temperature at 9.5% CO <sub>2</sub>	°C	210	210	210	210	210	210	210	210	210	210	210	210
Seasonal Efficiency	%	84.29	84.23	84.91	84.26	84.33	84.55	84.48	84.73	84.53	84.34	84.64	84.97
<b>Oil Firing Data</b>													
Maximum Oil Rate	l/h	82.73	88.64	94.55	100.5	106.4	112.3	118.2	124	130	135.9	142	147.7
Maximum Flue Gas Volume	m <sup>3</sup> /sec	0.51	0.55	0.59	0.62	0.66	0.7	0.73	0.77	0.81	0.84	0.88	0.92
Maximum Flue Gas Temperature at 13% CO <sub>2</sub>	°C	210	210	210	210	210	210	210	210	210	210	210	210
Seasonal Efficiency	%	87.70	87.60	88.30	87.60	87.70	87.90	87.90	88.10	87.90	87.90	88.00	88.40
<b>Minimum Flow Rates</b>													
Normal Water Flow Rate Temperature Difference 11°C (20°F)	l/s	17.6	18.9	20.1	21.4	22.6	23.9	25.2	26.4	27.7	28.9	30.2	21.5
Mimumun Water Flow Rate Temperature Difference 35°C (63°F)	l/s	5.5	5.9	6.3	6.7	7.1	7.5	7.9	8.3	8.7	9.1	9.5	9.9

## 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.**

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