

# Certificate

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**Certificate No: 54746/1**

**Issue No: 1**

**Date of issue: 11 November 2010**

This is to certify that UKAS Notified Body

## **BSRIA Limited**

Identification Number 0480

have type-tested the product(s) described below according to the requirements contained in Schedule 2 of the Boiler (Efficiency) Regulations 1993 for a standard boiler and have satisfied themselves that the product meets the relevant provisions of the regulations.

<b>Manufacturer</b>	Grant Engineering Limited
<b>Address</b>	Crinkle Birr Co. Offaly Ireland
<b>Product names</b>	Grant Vortex 20kW and Grant Vortex 30kW
<b>Test date</b>	28 September 2010 and 1 – 2 November 2010
<b>Expiry date</b>	11 November 2013
<b>Test engineer</b>	M. Lightfoot
<b>Quality approved</b>	DR ARNOLD TEEKARAM Head of Testing and Certification

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**Test results**

Rated outputs	20 kW (68,240 Btu/h)	30 kW (102,360 Btu/h)
Declared CO <sub>2</sub> settings	13.0%	13.0%
Net efficiencies at rated output	98.7%	99.3%
Mean boiler water temperature	70.1°C	70.1°C
Measured output	20.2 kW	30.0 kW
Measured CO <sub>2</sub> setting	12.5%	13.0%
Net efficiency at 30% part-load	104.2%	104.5%
Mean boiler water temperature	40.4°C	40.5°C
Test report reference number	54746A	
Test standard	BS EN 304:1992 and BS EN 15034:2006	
Test fuel	Class C2 Kerosene (BS 2869:1998)	

Test model	GRANT VORTEX 20 (15/26)	GRANT VORTEX 30 (26/36)		
Burner type	RDB1	RDB2		
Burner head	T2	T3		
Control box	RBL 535 SE/LD	RBL 535 SE/LD		
Fan motor	RBL 171T 90W	RBL 171T 90W		
Fuel pump	Type RBL 8/15	Type RBL 8/15		
Nozzle	Danfoss 0.60 x 80°EH	Danfoss 0.85 x 80°EH		
Control thermostat	IMIT 80°C Type TR2 9325	IMIT 80°C Type TR2 9325		
Limit thermostat	IMIT STB 111°C Type LS1 8025	IMIT STB 111°C Type LS1 8025		
Instructions	USER, INSTALLATION and SERVICING INSTRUCTIONS Part No. DOC 37 Rev. 13 October 2006			
Drawings	Title	Model	Drawing No	Date
	Heat exchanger	15/26	11328/E	20-04-04
	Panelled boiler	15/26	12707/A	07-09-06
	Baffles	15/26	11393/C	19-10-06
	Heat exchanger	26/36	11329/E	20-04-04
	Panelled boiler	26/36	12708/A	07-09-06
Baffles	26/36	11394/A	01-07-03	

Note: Any modifications made to the above boiler specifications may invalidate this certificate