

Certificate

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Certificate No: 19972/1

Issue No: 1

Date of issue: 21 July 2006

EC type examination certificate for product tested against
The Boiler (Efficiency) Regulations 1993

This is to certify that


BSRIA Limited

(Notified Body Identification Number 0480)

have type-tested the product described below 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.

Manufacturer	Grant Engineering Limited Crickle Burr Co Offaly Ireland
Product (models included)	Grant Vortex Utility 15/21 Condensing Grant Vortex Outdoor 15/21 Grant Vortex Combi 21 Grant Vortex Outdoor Combi 21
Date of test	5 and 6 June 2006
Expiry date:	6 June 2009
Test engineer	M Lightfoot

Quality approved


Dr Arnold Teekaram
Head of Testing and Certification

Notes: The Grant Vortex Utility model was tested, all others are similar models. Combination models have 25mm insulation on similar sized pipework. Outdoor models have galvanised casing.

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Test results

Rated output	21.0 kW (71,650 Btu/h)
Declared CO ₂ setting	12.5 to 13.0%
Net efficiency at rated output	94.9%
Mean boiler water temperature	70°C
Net efficiency at 30% part-load	103.6%
Mean boiler water temperature	40°C
Measured output	20.1 kW
Measured CO ₂	12.5%
Measured NO _x	215 mg/kWh (net)
Measured CO	89 mg/kWh (net)
Test report reference number	19972/1
Test standard	BS EN 304:1992
Test fuel	Class C2 Kerosene

Test model	Grant Vortex Utility 15/21 Condensing boiler
Burner type(s)	R.B.L RDB2.2 VORT 46 Type: 744T5K
Burner head(s)	6fins, 100 x 80mm dia
Control box	RBL 535 SE/LD
Fan motor	RBL 171T
Fuel pump	RBL 8/15 bar
Nozzle:	Nozzle: 0.60 x 80°ES
Control thermostat	80°C type TR2 9325
Limit thermostat	111°C type LS1 6025
Instructions	Installation and Servicing Instructions Doc 37 Rev 08 Sept 2005
Drawings	Heat exchanger: Drawing No 011338 (20-06-06) dimensions 286 x 331 x 680mm Baffles: Drawing No 011403 (24-05-06) 4off dimensions 219 x 78 x 238mm