



No. 0692



GASTEC at CRE LIMITED

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CERTIFICATE

Certificate No.: 8341/01

Copy No.: 01

Issue Date: 18-Dec-01

GASTEC @ CRE Ltd (Formerly CRE Group Limited) hereby attests that the following oil fired boiler meets Schedule 2 - The Efficiency Requirements of The Boiler (Efficiency) Regulations (SI 1993 No 3083), ascertained in accordance with Schedule 4 of the Regulations and thereby meets Council Directive 92/42/EEC.:-

Boiler Name	Maximum Claimed Rated Output in kW
Vortex 26	26.0

Fuel Type: Class C2 Kerosine


Appliance Type: Balanced Flue

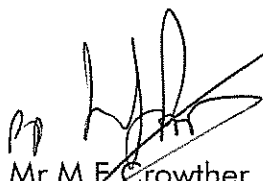
Manufactured by:-

Grant Engineering, Crinkle Birr, Co. Offaly, Ireland

Date Tested:	December 2001	Technical file reference No.:	8341/1OFB
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All relevant technical documentation in support of this certification is held at GASTEC at CRE Ltd in the technical file referenced above.

Tested by: 
B L Bailey
(Project Manager)

Approved by: 
Mr M E Crowther
(General Manager)

CRE Group Ltd. (Now GASTEC at CRE Ltd.) is a Registered Notified Body For The Boiler Regulations No.0558

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GASTEC at CRE LIMITED

Registered in England & Wales 3473056.

Registered Office: P.O.Box 279, Cheltenham, Gloucestershire, GL52 7ZJ, United Kingdom.

CONFIDENTIAL



OIL FIRED BOILER TEST REPORT

REPORT NO.:- 12/01/8341/1OFB
LABORATORY JOB NO.:- 8341/1
DATE OF ISSUE:- 18-Dec-01
COPY NO.:- 01

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Client/Manufacturer


Grant Engineering
Crinkle Birr
County Offaly
Ireland

APPLIANCE NAME:-	Vortex
MODEL NUMBER:-	26
BURNER:-	Riello RDB1 70-90
NOMINAL RATED OUTPUT	26.0 kW
DATE RECEIVED:-	03 Dec 01
DATE TESTED:-	11 Dec 01

TESTING AUTHORITY:-

GASTEC @ CRE Ltd
Formerly CRE Group Ltd
P.O. Box 279
Cheltenham
GL52 7ZJ



Issued Under The Authority Of:- 
(Authorised Signatories:- Mr M E Crowther, Mr A Pittaway)

No. 0692

CRE Group Ltd is a Registered Notified Body for the Boiler (Efficiency) Regulations - Number 0558

TEST RESULTS

Boiler efficiency at rated output

Parameter		Requirement	Result	Pass	Fail
Net boiler efficiency	%	89.6	99.9	✓	

Note: Requirement = $84 + 2\log P_n$

Boiler efficiency at part load

Parameter		Requirement	Result	Pass	Fail
Net boiler efficiency	%	89.6	102.9	✓	

Note: Requirement = $80 + 3\log P_n$

The test results showed that the useful efficiencies measured at rated output and part load met the requirements for efficiency of the Boiler (Efficiency) Regulations 1993 (SI 1993/3083).

ENERGY PERFORMANCE

When assessed against the requirements for the energy performance marking of boilers (Schedule 7 of the Boiler (Efficiency) Regulations 1993) the above named appliance falls into the four star category and may be labelled thus in accordance with Regulation 10.

TEST METHODS

The laboratory procedures used for this testwork (Procedures OFB9.0 and OFB10.0) follow the methodology specified in BS EN 304 : 1992
