IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:	IECEx LCI 07.0009X	issue No.:0	Certificate history:
Status:	**Current**		
Date of Issue:	**2007-12-19**	Page 1 of 3	

Applicant: **EXHEAT**
Threxton Road Industrial Estate
Watton, Thetford, Norfolk
IP25 6NG, UNITED KINDGOM
United Kingdom

Electrical Apparatus: **Heater**
Optional accessory:

Type of Protection: **Increased safety 'e'**

Marking: **EXHEAT**
Type F Heater**
Serial number
Ex e II T2, T3 or T4
Tamb = -20°C to +60°C (for T2 heaters only)
IECEx LCI 07.0009 X
WARNING : DO NOT OPEN WHILST ENERGISED
Power ratings

Approved for issue on behalf of the IECEx Certification Body: Marc GILLAUX

Position: Certification manager

Signature:
(for printed version)

Date: January 18th, 2008

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the Official IECEx Website.

Certificate issued by:

Laboratoire Central des Industries Electriques (LCIE)
33 Avenue du General Leclerc
FR-92260 Fontenay-aux-Roses
France

L C I E

IE-01

IECEx Certificate of Conformity

Certificate No.: IECEx LCI 07.0009X

Date of Issue: **2007-12-19** Issue No.: **0**

Manufacturer: **EXHEAT**
Threxton Road Industrial Estate
Watton, Thetford, Norfolk
IP25 6NG, UNITED KINDGOM
United Kingdom

Manufacturing location(s):
EXHEAT
Threxton Road Industrial Estate
Watton, Thetford, Norfolk
IP25 6NG, UNITED KINDGOM
United Kingdom

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

STANDARDS:
The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-0 : 2004 Edition: 4.0	Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
IEC 60079-7 : 2001 Edition: 3	Electrical apparatus for explosive gas atmospheres - Part 7: Increased safety 'e'

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

TEST & ASSESSMENT REPORTS:
A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

Test Report:

FR/LCI/ExTR07.0007/00

Quality Assessment Report:
FR/LCI/QAR06.0005/00

IECEx Certificate of Conformity

Certificate No.: IECEx LCI 07.0009X

Date of Issue: **2007-12-19** Issue No.: **0**

Schedule

EQUIPMENT:
Equipment and systems covered by this certificate are as follows:

The FAW and FCR type air heaters are convector heaters comprising up to 6-off tubular metal sheathed finned elements terminated in an integral Ex e terminal enclosure, rated at up to 4kW, 660V, single or polyphase. There are three variants : the FAW, the FAW-C (compact version) and FCR (wall-mounted convector). This equipment is designed to operate in an ambient temperature of -60°C to +60°C. The enclosure is made of stainless or mild steel, natural or painted. All external electrical connections are terminated in the terminal enclosure. The maximum rating is established to ensure that whilst continuously energised at its rated voltage a given temperature class cannot be exceeded in a given ambient.

FAW & FCR : based on a maximum power density at the element sheath surface of 3.01 W/cm² at its rated supply voltage these heaters have a temperature class of T3 in an ambient of up to +40°C and T2 in an ambient of up to +60° C.

FAW & FCR : based on a maximum power density at the element sheath surface of 1.35 W/cm² at its rated supply voltage these heaters have a temperature class of T4 in an ambient of up to +40°C. FAW-C : based on a maximum power density at the element sheath surface of 1.1 W/cm² at its rated supply voltage these heaters have a temperature class of T3 in an ambient of up to +40°C and T2 in an ambient of up to +60°C.

CONDITIONS OF CERTIFICATION: YES as shown below:

Power ratings

FAW and FCR : 4kW single or polyphase up to 660V
FAW-C : 4kW single or polyphase up to 550V
Ambient operating temperature
FAW & FCR (power density at element surface of 3.01 W/cm²) :
-60°C to +40°C for T3
-60°C to +60°C for T2
FAW & FCR (power density at element surface of 1.35W/cm²) :
-60°C to +40°C for T4
FAW-C (power density at element surface of 1.1 W/cm²) :
-60°C to +40°C for T3
-60°C to +60°C for T2