



# 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](http://www.iecex.com)

Certificate No.: IECEx LCI 12.0008X issue No.:0 Certificate history: .....

Status: **Current**

Date of Issue: **2012-06-28** Page 1 of 3

Applicant: **EXHEAT INDUSTRIAL LIMITED**  
Threxton House  
Threxton Road Industrial Estate  
Watton, Thelford,  
Norfolk, IP25 6 NG  
**United Kingdom**

Electrical Apparatus: **FXE Heater**  
Optional accessory:

Type of Protection: **d , tb**

Marking: EXHEAT INDUSTRIAL LIMITED  
Address : ... ;  
Type : FXE  
Serial number : ...  
Year of construction : ...  
Ex d IIC T\* Gb  
Ex tb IIIC T\* Db  
IP6X  
-50°C ≤ Tamb ≤ + \* °C  
Maximum cable temperature : 150°C  
IECEX LCI 12.0008 X  
WARNING -  
DO NOT OPEN WHEN ENERGIZED  
DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE MAY BE PRESENT

\* See condition of certification


Approved for issue on behalf of the IECEx  
Certification Body:

Julien GAUTHIER

Position:

Certification Officer

Signature:  
(for printed version)

  
\_\_\_\_\_  
2012-06-28

Date:

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](http://www.iecex.com).

Certificate issued by:

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





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Issue No.: 0

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Manufacturer: **EXHEAT INDUSTRIAL LIMITED**  
Threxton House  
Threxton Road Industrial Estate  
Watton, Thelford,  
Norfolk, IP25 6 NG  
**United Kingdom**

Manufacturing location(s):

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:

<b>IEC 60079-0 : 2011</b> Edition: 6.0	Explosive atmospheres - Part 0: General requirements
<b>IEC 60079-1 : 2007-04</b> Edition: 6	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
<b>IEC 60079-31 : 2008</b> Edition: 1	Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure 't'

*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/ExTR12.0008/00](#)

#### Quality Assessment Report:

[FR/LCI/QAR06.0005/00](#)  
[FR/LCI/QAR06.0005/03](#)

[FR/LCI/QAR06.0005/01](#)  
[FR/LCI/QAR06.0005/04](#)

[FR/LCI/QAR06.0005/02](#)



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## Schedule

### EQUIPMENT:

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

The FXE heater is a tubular convector heater comprising a cartridge type electric heating element fitted in a vertically mounted extruded aluminium finned tube. A supply cable is fitted through a certified cable gland for termination in suitably certified terminals.

The maximum ratings is established to ensure that whilst continually energized at its rated voltage, a given temperature class cannot be exceeded in a given ambient.

#### Electrical ratings :

Maximum rated power : 100W

Maximum supply voltage : 500 VAC

2 wires

### CONDITIONS OF CERTIFICATION: YES as shown below:

See Attachment 01



# IECEX LCI 12.0008 X issue 0 Attachment n°01



Conditions of certification :

Max Ambient Temperature	Power density at the heating element sheath surface	Class of temperature (gas)	Surface temperature (dust)
+40°C	0,35 W/cm <sup>2</sup>	T4	T135°C
+80°C	0,57 W/cm <sup>2</sup>	T3	T200°C
+60°C	0,70 W/cm <sup>2</sup>	T3	T200°C

The service temperature of the cable entry shall comply with the maximal temperature of the cable specified on the marking.