



国家防爆

Electrical Apparatus for Explosive Atmospheres

CERTIFICATE OF CONFORMITY

Cer. No.: CNEx11.2875X

Manufacturer EXHEAT Ltd
 (Add: Threxton Road Industrial Estate Watton, Thetford, Norfolk IP25 6NG
 United Kingdom)

Name of Product Liquid Air Gas Heater

Type of Product Type ISE Range

Marking ExeII T1~T6 Gb

Standard —

Drawing No. 2008-12-01

The drawings, technical documents and the samples are verified and certified according to standard(s) for safety as below:

GB3836.1-2010 Explosive atmospheres Part 1: Equipment-General requirements
 GB3836.3-2010 Explosive atmospheres Part 3: Equipment protection by increased safety "e"

Note See Annex.

Valid Date From Sep 27th, 2011 to Sep 26th, 2016

Issue Date Sep 27th, 2011

Director



**CHINA NATIONAL QUALITY SUPERVISION AND TEST CENTRE
FOR EXPLOSION PROTECTED ELECTRICAL PRODUCTS**

Address: No.20 North Zhongjing Rd, Nanyang, Henan(473008), P.R.China
Tel: 0377-63258564 **Fax:** 0377-63208175 **Http://www.china-ex.com**



Note: This certificate is only valid for the products which identify with the sample(s) tested and verified. Holder(s) of this certificate have the responsibility to ensure the products complying with relevant standard(s).



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1. Flameproof Ex d barrier glands shall not been used
2. For assembly 150 mm minimum stand-off and non-stand-off versions, the auxiliary terminal box shall not be mounted nearer than the minimum stanf-off distance of 50mm from the main enclosure side/base when the opionnal anti-condensation heater is mounted.
3. For assembly dummy flange version, additionally to the condition n°2, the installer and/or end user shall ensure that the dummy flange is fully seal welded to the lagging cover and that this cover prevents ingress of hazardous area.
The installer and/or end user shall ebnsure that the lagging is applied between the dummy flange process and the process flange.
4. For assembly Heat shield version, additionally to the condition n°2, the installer and/or end user shall ensure that the heat shields are left unobstructed at all times.
5. For assembly type submersible heater, additionally to the condition n°2, the installer and/or end user shall ensure that the heater is de-energised if the liquid level does not completely cover the heating elements.
6. Leads connected to the terminals shall be insulated for the appropriate voltage and this insulation shall extend to within 1 mm of the metal of the terminal throat.
7. All the terminal screws used and unused shall be tightened down.
8. Suitable Ex d or Ex e cable glands and Ex e blaking plugs are to be fitted to maintain the reuquired ingress Protection rating.
9. Supply terminal lugs shall be insulated for the appropriate voltage and this insulation shall be set to maintain a minimum clearance of 15 mm.

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10. A suitable temperature controller shall be fitted with a manually re-settable temperatre trip (access to which is only possible by use of a key or tool) set to a maximum of :

- T6 75 °C
- T5 90 °C
- T4 125 °C
- T3 195 °C
- T2 290 °C (Heat shield version only)
- T1 440 °C (Heat shield version only)

and a trip response to allow the temperature class to be met or the elements shall be suitably down rated to allow an uncontrolled temperature maximum of 80°C (T6), 90°C (T5), 130°C (T4), 195°C (T3) when equated to an ambient of 40°C, 50°C or 60°C as appropriate.

11. The safety trip shall be set using the manufacturers setting up procedure number WI/09/131, prior to use , failure to adhere to this mandatory requirement nullified all certification.

12. Faulty/replacement safety trip controllers shall be set up as condition n°11, prior to use, failure to adhere to this mandatory requirement nullified all certification.

13. The anti-condensation heater supply shall be interlocked to prevent energidation whilst the main power is present.

14. When installing supply cables due note should be taken that the anti-condensation heater without a guard may reach high temperature and the cables shall be routed a minimum of 50 mm away this heat source.

15. Busbars are only suitable for use at ambient from -40°C to +60°C.

16. Melamine terminals are suitable for use at ambient from -60°C to +60°C.

17. Conditions of certification concerning the components already certified depend on the relevant certificates.

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国家防爆

防爆电气设备

防爆合格证

编号: CNEx11.2875X

制造单位	EXHEAT Ltd (Add: Thrextton Road Industrial Estate Watton, Thetford, Norfolk IP25 6NG United Kingdom)
产品名称	Liquid Air Gas Heater
型号规格	Type ISE Range
防爆标志	Exell T1~T6 Gb
产品标准	—
总装图号	2008-12-01

经对上述产品图样及技术文件的审查和样品检验，确认符合下列标准：
 GB3836.1-2010 爆炸性环境 第1部分：设备 通用要求
 GB3836.3-2010 爆炸性环境 第3部分：由增安型“e”保护的设

记事 见附页。

本证有效期 2011年9月27日至2016年9月26日

颁发日期 2011年9月27日

中心主任



国家防爆电气产品质量监督检验中心

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国家防爆

防爆电气设备

防爆合格证(附页)

编号: CNEx11.2875X

1. 不能使用隔爆型引入装置。
2. 在安装抗冷凝加热器时, 可选择配用不小于小 150mm 的绝缘支架的安装方式和不配用绝缘支架的安装方式, 辅助接线盒与抗冷凝器固定位置之间的距离不能小于 50mm。
3. 作为对第 2 条的补充, 安装者和/或最终使用者在安装隔离法兰时应保证隔离法兰与防护套完全密封, 能防止危险气体的进入。安装者和/或最终使用者应保证隔离法兰与法兰配件的保护良好。
4. 作为对第 2 条的补充, 安装者和/或最终使用者在安装隔热板时应保证隔热通路在任何时间都保持通畅。
5. 作为对第 2 条的补充, 安装者和/或最终使用者在安装浸入式加热器时应能保证在加热元件未被液体完全浸没前加热器不通电。
6. 连接于接线端子的引线应根据电压适当绝缘, 且绝缘部分与匝线束距离至少为 1mm。
7. 所有的接线螺栓都应拧紧。
8. 配套的隔爆型或增安型电缆引入装置和插头应能保证设备的整体防护级别不降低。
9. 电源终端盒应根据电压适当绝缘, 保证最小电气间隙为 15mm。

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中心主任



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防爆电气设备

防爆合格证(附页)

Cer. No.: CNEx11.2875X

10. 应采用合适的带有手动复位功能的(只能通过钥匙或工具复位)温度脱断装置,其最大温度应设置为:

- T6 75 °C
- T5 90 °C
- T4 125 °C
- T3 195 °C
- T2 290 °C (只在带热保护罩的情况下)
- T1 440 °C (只在带热保护罩的情况下)

断开响应使温度降至符合要求,或者以合适的方式降低额定值,使其在环境温度为 40°C、50°C 或 60°C 时对应的最高温度为 80°C (T6), 90°C (T5), 130°C (T4), 195°C (T3)。

- 11. 使用前应按照制造商设置程序 WI/09/131 来设置安全脱断,违背此条强制要求则本认证无效。
- 12. 正常使用前,安全脱断控制器的故障/复位应按照第 11 条设置,违背此条强制要求则本认证无效。
- 13. 抗冷凝加热器的电源应连锁防止其主电源通电时通电。
- 14. 在安装电源电缆时应注意无防护的抗冷凝加热器可能产生高温,故电缆与热源的距离不应小于 50mm。
- 15. 母线只能在 -40°C to +60°C 的环境温度下使用。
- 16. 三聚氰胺端子只能在 -40°C to +60°C 的环境温度下使用。
- 17. 其他相关部件的认证情况见相关证书。

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