



(1) EC-Type Examination Certificate

- (2) Equipment or protective system intended for use in potentially explosive atmospheres - **Directive 94/9/EC**
- (3) Examination certificate number: **SEV 08 ATEX 0113 X**
- (4) Equipment: Flow heater for LÜBER gassing units type 200.030
- (5) Manufacturer: Lüber GmbH
- (6) Address: Technische Anlagen, Bahnhofstrasse 26/28, CH-9602 Bazenhaid
- (7) The equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- (8) Electrosuisse SEV, notified body No. 1258 in accordance with article 9 of the Council Directive of the European Communities of 23 March 1994 (94/9/EC), certifies that this equipment has been found to comply with the essential health and safety requirements relating to the design and construction of equipment or protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.
The results of the examination are recorded in confidential report no 06-IK-0318.01 incl. extension 1.
- (9) Compliance with the essential health and safety requirements has been assured by compliance with:
EN 60079-0:09 **EN 60079-7:07**
- (10) If the sign «X» is placed after the certificate number, it indicates that the equipment or protective system is subjected to special conditions for safe use specified in the schedule to this certificate.
- (11) This examination certificate relates only to design and construction of the specified equipment in accordance with the directive 94/9/EC. Further requirements of this directive apply to the manufacturing process and the placing on the market of the equipment.
- (12) The marking of the equipment shall include the following:

 **II 2G Ex e IIC T165°C/T190°C/T210°C Gb**

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Product Certification




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(13)

Appendix

(14)

EC-Type Examination Certificate

(15) Description of the equipment

The flow heater for LÜBER gassing units type 200.030 is an electrically heated continuous flow heater and is used in LÜBER LW-FDA-**** and LW-CBS-**** series gassing units.

It serves for gassing liquid amines at ignition temperatures above T165°C/T190°C/T210°C and for heating compressed air. The basic heating module consists of two heating plates (each 4kW) with ribs and a frame. The heating plates are permanently bolted to the frame and sealed.

Ratings

Supply circuit	Rated voltage	$U_N = 400-575 \text{ VAC}$
	Power input (depending on type)	$P_N = 4 / 8 \text{ kW}$

(16) Test Report

06-IK-0318.01 incl. extension 1

(17) Special conditions for safe use

1. The flow heater for LÜBER gassing units type 200.030 must be installed so that the minimum degree of protection IP 54 is provided according to the standard EN 60529. This requirement is fulfilled by installation in an equipment cabinet.
2. The flow heater for LÜBER gassing units type 200.030 must be protected against impermissible overtemperatures of more than 125°C/150°C/160°C by means of a temperature limiting device - as a safety thermostat for each heating plate. The respective switch off temperature is determined by the type of amine used.
3. The connecting cables of the flow heater for LÜBER gassing units type 200.030 must be routed within the equipment cabinet so that they are adequately protected against damage.

(18) Fundamental essential health and safety requirements

Fulfilled by the standards applied



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