


# EU-Type Examination Certificate

- [2] EQUIPMENT OR PROTECTIVE SYSTEM INTENDED FOR USE IN POTENTIALLY EXPLOSIVE ATMOSPHERES DIRECTIVE 2014/34/EU
- [3] **EU-Type Examination Certificate Number:** Presafe 17 ATEX 9447 X Issue 0
- [4] **Product:** TORREXX Vaporizer
- [5] **Manufacturer:** Algas-SDI International LLC
- [6] **Address:** 151 South Michigan Street  
Seattle, WA 98108
- [7] This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- [8] DNV Nemko Presafe AS, notified body number 2460, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.  
The examination and test results are recorded in confidential reports listed in section 16.
- [9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with: EN 60079-0:2012/A11:2013, EN 60079-1:2014 and EN 60079-18:2009.
- [10] If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.
- [11] This EU - TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.
- [12] The marking of the product shall include the following:

 II -/2 G Ex db mb IIB T2 Gb

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Bjørn Spongsveen  
For DNV Nemko Presafe AS  
Information on electronic signature [www.presafe.com](http://www.presafe.com)



Date of issue: 2017-12-22

*This certificate may only be reproduced in its entirety and without any change, schedule included.*

[13] **Schedule**

[14] **EU-TYPE EXAMINATION CERTIFICATE No.:** Presafe 17 ATEX 9447 X Issue 0

[15] **Description of Product**

The TOREXX is vertical electric single core vaporizer is intended for liquefied petroleum gas and ammonia evaporation. The heater casing made from aluminium includes process (pressure) vessel for process fluid evaporation and box with electrical heater which are welded together and form the flameproof enclosure. Ex certified magnetic valve and cable glands for regulation of the liquefied gas flow is evaluated as parts of the assembly. The process vessel is coated with non-conductive material.

The inside of the pressure vessel considered as (process) non-hazardous area.

Equipment is delivering with one free threaded hole with adaptor intended for appropriate certified cable entry. The threaded openings which are not in use are provided closed with appropriate certified blanking elements.

**Type identification:** TORREXX

Applicable LPG models: TX25, TX50, TX100, TX160, TX240, TX320

Applicable NH<sub>3</sub> models: TX19AA, TX38AA, TX75AA, TX120AA, TX180AA, TX240AA

**Electrical Data**

Supply voltage: 120–480V AC 50/60Hz

Supply current: 10-60 A

Power: 2.9-39.4 kW

**Ambient temperature**

-20°C to +40°C

**Routine tests**

Each enclosure must be submitted to routine overpressure test of 11 bar according to EN 60079-1:2014 clause 16.

[16] **Report No.:** D0002575

[17] **Specific Conditions of Use**

“X” - The flameproof joints not intended to be repaired.

“X” – Minimum yield stress of the fastenings screws used for enclosure is 646 Mpa.

“X” – The instruction indicates all the necessary information to ensure the installation and use minimize the risk from electrostatic discharge.

“X” –The cable glands provided are suitable only for fixed applications and the cable must be effectively clamped and cleated to prevent pulling and twisting.

**[18] Essential Health and Safety Requirements**

Essential Health and Safety Requirements (EHSRs) are covered by the standards listed at item 9

**[19] Drawings and documents**

Number	Title	Rev.	Date
5001-2025	TX CERT. DWG	D	2017-11-14

**[20] Certificate History**

Issue	Description	Issue date	Report no.
0	Original issue	2017-12-22	D0002575

END OF CERTIFICATE