



# 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 PRE 17.0073X

Issue No: 0

Certificate history:

Issue No. 0 (2018-01-02)

Status: **Current**

Page 1 of 3

Date of Issue: **2018-01-02**

Applicant: **Algas SDI International LLC**  
151 South Michigan Street  
Seattle  
WA 98108  
**United States of America**

Equipment: **TORREXX Vaporizer**

Optional accessory:

Type of Protection: **Ex d , m**

Marking:  
**Ex db mb IIB T2 Gb**

Approved for issue on behalf of the IECEx  
Certification Body:

Bjørn Spongsveen

Position:

Head of Ex Department

Signature:  
(for printed version)

  
DNV GL Nemko Presafe AS  
Org.no: 997 067 401 mva  
**2018-01-03**

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.

Certificate issued by:

**DNV GL Nemko Presafe AS**  
Veritasveien 3  
1363 Høvik  
Norway





# IECEX Certificate of Conformity

Certificate No: IECEX PRE 17.0073X Issue No: 0

Date of Issue: 2018-01-02 Page 2 of 3

Manufacturer: **Algas SDI International LLC**  
151 South Michigan Street  
Seattle  
WA 98108  
**United States of America**

Additional 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 : 2014-06</b> Edition:7.0	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
<b>IEC 60079-18 : 2009</b> Edition:3	Explosive atmospheres Part 18: Equipment protection by encapsulation "m"

*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:

[NO/PRE/ExTR17.0061/00](#)

#### Quality Assessment Report:

[NO/PRE/QAR17.0007/00](#)



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Certificate No: IECEx PRE 17.0073X

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Date of Issue: 2018-01-02

Page 3 of 3

## Schedule

### EQUIPMENT:

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

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.

### SPECIFIC CONDITIONS OF USE: YES as shown below:

-The flameproof joints not intended to be repaired.

-Minimum yield stress of the fastenings screws used for enclosure is 646 Mpa.

-The instruction indicates all the necessary information to ensure the installation and use minimize the risk from electrostatic discharge.

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