

EU-TYPE EXAMINATION CERTIFICATE



Equipment or Protective System intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

- [3] EU-Type Examination Certificate Number: **DEMKO 19 ATEX 2083X Rev. 2**
- [4] Product: **ZIMMER LPG or Propane Vaporizer**
- [5] Manufacturer: **Algas-SDI**
- [6] Address: **151 South Michigan St., Seattle, WA, 98108 USA**
- [7] This product and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.
- [8] UL International Demko A/S, notified body number 0539 in accordance with Article 17 of the Council Directive 2014/34/EU of 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to 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 report no. **US/UL/ExTR19.0039/02**.
- [9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
- EN IEC 60079-0:2018 EN 60079-1:2014**
- [10] If the sign "X" is placed after the certificate number, it indicates that the product is subject to special conditions for safe 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 the certificate.
- [12] The marking of the product shall include the following:

 **II 2 G Ex db IIA T3 Gb**

Certification Manager
Jan-Erik Storgaard

This is to certify that the sample(s) of the Product described herein ("Certified Product") has been investigated and found in compliance with the Standard(s) indicated on this Certificate, in accordance with the ATEX Product Certification Program Requirements. This certificate and test results obtained apply only to the product sample(s) submitted by the Manufacturer. UL did not select the sample(s) or determine whether the sample(s) provided were representative of other manufactured product. UL has not established Follow-Up Service or other surveillance of the product. The Manufacturer is solely and fully responsible for conformity of all product to all applicable Standards, specifications, requirements or Directives. The test results may not be used, in whole or in part, in any other document without UL's prior written approval.

Date of issue: 2019-07-10

Re-issued: 2022-01-22

Notified Body UL International Demko A/S, Borupvang 5A, 2750 Ballerup, Denmark
Tel. +45 44 85 65 65, info.dk@ul.com, www.ul.com



[13]

[14]

Schedule

EU-TYPE EXAMINATION CERTIFICATE No.

DEMKO 19 ATEX 2083X Rev. 2

[15] Description of Product

The ZIMMER Vaporizer is a dry electric LPG or Propane Vaporizer intended for use in conjunction with a gas storage container for converting liquified petroleum to vapor by means of an electrical heater/heat exchanger. The device is constructed of three different parts consisting of a capacity control valve, flameproof heater with an integral heat exchanger, and an optional aluminum shell. This certification covers the flameproof enclosure and aluminum shell. The capacity control valve is purely mechanical in function and has no electrical parts. Heat is provided by a Positive Temperature Coefficient (PTC) heater assembly. The heat exchanger is integrally extruded into the walls of the flameproof enclosure.

Nomenclature:

ZAAB-V1-R3

Z – Z Series

AA – Gas Capacity

25 – 25 kg/h
40 – 40 kg/h
50 – 50 kg/h
100 – 100 kg/h
150 – 150 kg/h

B – Gas Type

P – Propane
L – LPG (Liquified Petroleum Gas)
S – LPG (50/50)

V1 – Voltage Configuration

V1 – Standard Configuration

R3 – Revision

R3 – Third Generation

Temperature range

The ambient temperature range is -20 °C to +50 °C.

Electrical data

Gas Capacity 25, 40, 50: 1 phase, 100-277 V AC, 50/60 Hz, 3.3-5.8 kW

Gas Capacity 100, 150: 3 phase: 240-480 V AC, 50/60 Hz, 11.5-17.3 kW, 1 phase: 100-277 V AC, 50/60 Hz

Routine tests

Routine tests according to EN 60079-1 cl. 16.1 are not required, as the enclosures have been successfully tested at four times the reference pressure.

[16] Descriptive Documents

The scheduled drawings are listed in the report no. provided under item no. [8] on page 1 of this EU-Type Examination Certificate.

[17] Specific conditions of use:

- Flameproof joints are other than those specified in EN 60079-1 Cl. 5.1. Installation Instructions state "Any repairs internal to the flameproof enclosure must be made by the manufacturer or its authorized service center"
- Enclosure fasteners must be bolts of M10x1.5x50 mm, Class 8.8, min. yield strength 640 MPa

[18] Essential Health and Safety Requirements

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

Additional information

The manufacturer shall inform the notified body concerning all modifications to the technical documentation as described in Annex III to Directive 2014/34/EU of the European Parliament and the Council of 26 February 2014.