

**GOVERNMENT APPROVED TEST LABORATORY**  
IN TERMS OF ARP 0108: "REGULATORY REQUIREMENTS FOR EXPLOSION PROTECTED APPARATUS"

**IA CERTIFICATE**

Date Issued: **28 Oct 2019**  
\*Expiry date: **28 Oct 2022**  
**Page 1 of 3**  
**Issue: 0**

**Ex – Type Examination Certificate**

Certificate Number: **S-XPL/19.1642 X**  
Equipment: **ZIMMER LPG or Propane Vaporizer**  
Model / Type: **Model Z**  
Applicant: **Eyona Gas Equipment cc**  
**PO Box 36798**  
**Chempet**  
**7442**  
Manufacturer: **Algas-SDI**  
Serial No: All serial numbers imported between issued- and expire date and all serial numbers covered by a valid report or acceptable product certification mark.

Supplied by  
**Eyona Gas Equipment cc**  
Identified by Inspection Authority number  
**S-XPL/19.1642 X**

And as described in the Explolabs file number **XPL/20982/19.1642** is hereby certified "Explosion Protected (Refer to clause 1, for Ex Rating)", having been examined and inspected in accordance with the relevant requirements of South African Standards.

**SANS 60079-0: 2012 Ed 5** Explosive atmospheres Part 0: Equipment — General requirements  
**IEC 60079-0: 2011 Ed 6**

**SANS 60079-1: 2015 Ed 5** Explosive atmospheres Part 1: Equipment protection by flameproof enclosures "d"  
**IEC 60079-1: 2014 Ed 7**




Risk of ignition provided:

Protection afforded	Equipment Protection Level (EPL)	Performance of protection	Conditions of operation	T class or Max Surface Temp (°C)
	Group			
High	Gb Group II	Suitable for normal operation and frequently occurring disturbances or equipment where faults are normally taken into account	Equipment remains functioning in zones 1 and 2	T3 (200 °C)

*This certification indicates compliance with R10.1 of the Mines Health and Safety Act and/or EMR 9(2) of the Occupational Health and Safety Act, provided that the apparatus is used as relevant in accordance with:*

- i) SANS 10086 and IEC/SANS 61241-14 requirements as applicable;
- ii) Any conditions mentioned in the above report;
- iii) Any relevant requirements and codes of practice enforced in terms of the Mine Health and Safety Act or Occupational Health and Safety Act; and
- iv) Any restrictions and conditions enforced by the Chief Inspector of Mines or the Principal Inspector or the Chief Inspector: Occupational Health and Safety.
- v) A revision certificate replaces all previous version of the certificate.
- vi) \* - Only covers equipment Imported between the "Issued" and "Expire" dates.
- vii) If and when your QAN (Quality Assurance Notification) Certificate for your equipment manufacturer expires during the valid period of the IA Certification (issued for your equipment) and a new certificate is not submitted the existing IA Certification will then be cancelled. It is thus the client's responsibility to always submit the updated and valid QAN certificate(s) to Explolabs (Pty) Ltd



   DEMKO 19 ATEX 2083X II 2 G Ex db IIA T3 Gb IECEx UL19.0034X Ex db IIA T3 Gb	MODEL: <input type="text"/>	RATED CAPACITY: <input type="text"/>	CAUTION: TO PREVENT IGNITION OF HAZARDOUS ATMOSPHERES: 1. THIS EQUIPMENT SHALL BE INSTALLED SO THAT THE FLAME JOINTS ARE NOT WITHIN 10MM OF A SOLID OBJECT THAT IS NOT PART OF THIS EQUIPMENT 2. TO REDUCE RISK OF FIRE OR EXPLOSION, DO NOT INSTALL WHERE THE MARKED OPERATING TEMPERATURE EXCEEDS THE IGNITION TEMPERATURE OF THE HAZARDOUS ATMOSPHERE ATTENTION: POUR PRÉVENIR L'ALLUMAGE D'ATMOSPHÈRES DANGEREUSES: 1. CET APPAREIL EST INSTALLÉ DE MANIÈRE À CE QUE LE JOINT DE FLAMME NE SOIT PAS DANS UN MAXIMUM DE 10 MM. UN OBJET SOLIDE QUI NE FAIT PAS PARTIE DE CET ÉQUIPEMENT 2. AFIN DE RÉDUIRE LES RISQUES D'INCENDIE OU D'EXPLOSION, NE PAS INSTALLER OÙ LE FONCTIONNEMENT MARQUÉ LA TEMPÉRATURE DÉPASSE LA TEMPÉRATURE D'ALLUMAGE DE L'ATMOSPHÈRE DANGÉREUSE WARNING: DO NOT OPEN ENCLOSURE. FACTORY SEALED AVERTISSEMENT: NE PAS OUVRIR LE BÔTIER SCELLÉ EN USINE
	SERIAL NO.: <input type="text"/>	YEAR BUILT: <input type="text"/>	
FOR USE WITH LPG/PROPANE HEAT EXCHANGER AREA: 3,606CM <sup>2</sup> (559IN <sup>2</sup> ) VOLUME 1,606CM <sup>3</sup> (98IN <sup>3</sup> ) MAWP: 17.24 BARG AT 149°C (250°F) AT 300°F MDMT: -20°C AT 17.24BARG (-20°F AT 250 PSIG) HYDROSTATIC TEST PRESSURE 25.86 BARG (375 PSIG) AMBIENT TEMPERATURE -20°C TO 50°C ELECTRICAL: 100-277 VOLT AC, 1 PHASE, 50/60 Hz, 11.5-17.3kW 240-480 AC, 3 PHASE, 4 WIRE WYE,50/60Hz HORIZONTAL OR VERTICAL WALL MOUNT. USE WIRING ASSEMBLY PROVIDED SEE INSTALLATION INSTRUCTION DOCUMENT			

Based on the following documentation: IECEx UL 19.0034X Issue No.: 0

## 2. INSTALLATION INSTRUCTIONS

It is the manufacturer's responsibility to supply installation instructions with each unit offered for sale as required by IEC/SANS 60079-0 Clause 30.

## 3. SPECIAL CONDITIONS FOR SAFE USE (denoted by "X" after certificate number)

Flameproof joints are other than those specified in IEC 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.

## 4. SCHEDULE OF LIMITATIONS (denoted by "U" after certificate number)

None.

## 5. CONDITIONS OF CERTIFICATION

All production units must be covered by a QAN (Quality Assurance Notification), Product Mark Scheme or batch evaluation.

## 6. MARKING

The following (or similar) information have to be clearly and permanently marked on all units:

Supplier : Eyona Gas Equipment cc  
 Manufacturer : Algas-SDI  
 Equipment : ZIMMER LPG or Propane Vaporizer  
 Model/Type : Model Z  
 Serial No. : ---  
 Ex Rating : Ex db IIA T3 Gb -20°C to +50 °C  
 IA Certificate No : S-XPL/19.1642 X

**Responsible Testing Officer:**



**P van Staden**

**Technical Specialist**

**EXPLOLABS EXPLOSION PREVENTION SERVICES**

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