

- (3) This declaration is issued for the electrical apparatus:  
Expo Room Pressurising System Types 15 RPX-XXXX-XXX
- (4) Manufacturers:  
Expo Technologies  
Unit 2 The Summit  
Hanworth Road  
Sunbury on Thames  
TW16 5DB
- (5) This electrical apparatus and any acceptable variation thereto is specified in the Annex to this certificate and the documents therein referred to.
- (6) This declaration and schedule confirm compliance of each unit with the following standards:
- |                          |  |
|--------------------------|--|
| EN 60079-0: 2018         | General requirements                               |
| EN 60079-13: 2017        | Equipment protection by pressurized rooms "p"      |
| EN 60079-15: 2019        | Equipment protection by type of protection "n"     |
| EN 60079-7: 2015+A1:2018 | Equipment protection by increased safety "e"       |
| EN 60079-11: 2012        | Equipment protection by intrinsic safety "i"       |
| EN 60079-36: 2016        | Non-electrical equipment for explosive atmospheres |
- (7) This apparatus fulfils all the requirements for Group II Category 3 equipment in accordance with European Directive 2014/34/EU.
- (8) The design is documented in Expo Technologies Technical Construction File number 49496 and 55468.
- (9) The apparatus marking:

 **II 3 G** Ex ec ic h nR [pc] IIB+H<sub>2</sub>T3 Gc

Signed



**Dr. Kapila Mediliyegedara**  
Product Manager and Senior Certification Engineer  
For and on behalf of Expo Technologies Ltd.  
Sunbury on Thames, 14<sup>th</sup> September 2021.

## Declaration of Conformity EXPO 15ATEX1343X

### 10 Description:

Room Pressurization is a pressurizing and ventilation systems for rooms. The system contains a motor fan or dual fan (optional), an Ex nR Restricted-Breathing for System Control Enclosure and an Ex ec Electrical Terminal Box with local and remote inputs for power; and outputs for interfacing with the integrated room protection system. Interfaces are provided where required for fire & gas detectors, outlet valves, fire dampers and other associated equipment. All user interfaces are via the Ex ec Electrical Terminal Box.

### 11 System data:

Power Supply	180- 264 Vac 1 Phase 50/60Hz 320- 528 Vac 3 Phase 50/60Hz
Air Flow (set by user) range between	50m <sup>3</sup> /hr to 4750m <sup>3</sup> /hr
Minimum over-pressure	25Pa
Maximum over-pressure	650Pa
Ambient temperature range	-20°C to +40°C.

### 12 Special conditions of safe use:

Cable glands to the Electrical Terminal Box shall be a minimum of IP54 and be type Ex e or d and shall be installed in accordance with the gland certificate. Alternatively conduit stopper boxes may be used providing that the IP rating is maintained.

The System Control Enclosure is protected by restricted breathing measures. If opened the integrity of the protection shall be confirmed by testing the leakage rate as described in the manual for the apparatus. A record of the re-testing shall be maintained and the enclosure be marked to indicate when the testing took place. Failure to carry out the test and record the results will invalidate this certificate.

The user shall ensure that the adequate air quality for personal with regard to toxicity and temperature within the room as per applicable local regulations and standards.

### 13 Documentation

Drawing No	Title	Rev
SD8188	Room Pressuriser 1 Fan 1Door	2
SD8189	Room Pressuriser 2 Fans 1Door	2
SD8190	Room Pressuriser 1 Fan 2Doors	2
SD8191	Room Pressuriser 2 Fans 2Doors	2
SD8193	Interconnection Diagram	2
SD8194	Numbering System	2
SD8192	Electrical Termination Box	2
SD8187	System Control Enclosure	2
RP-HU	RP Hook-Up	1
ML543	System Manual (single fan)	
ML544	System Manual (dual fan)	
MLA-ZFBO-201	System Certification Label Drawing	
MLA-ZFBO-202	Terminal Box Cert Label	
MLA-ZFBO-203	Control Enclosure Cert Label	

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### 14 Certificates

Description	Certification	Marking	Temperature
Electrical Terminal Box/ROSE Systemtechnik GmbH	PTB98ATEX3101U	II 2 G Ex eb IIC Gb T4 II 2 D Ex tb IIIC Db	-20°C to +40°C
System Control Enclosure	ExVeritas 19ATEX0454U	II 2 G Ex eb IIC Gb	-20°C to +40°C
RH50M Motor and Fan	ZA75ex-GB 2007 EC-Declaration of Conformity	II 2 G Ex eb IIB T3 II 2 G Ex c h IIB T3	-20°C to +40°C

### 15. Variations

**Variation 1-30<sup>th</sup> April 2015** This variation introduced the following:

Issued new certificate for Room Purge as part of a transition from nL to ic.

**Variation 2-29<sup>th</sup> July 2015** This variation introduced the following change:

Addition of Item 14 Certificates

**Variation 3 -27<sup>th</sup> September 2016** This variation introduced the following change:

ATEX Directive Update

**Variation 4 -14<sup>th</sup> September 2021** This variation introduced the following changes:

- Electrical Terminal Box was replaced with a component certified box.
- System Control Enclosure was replaced with a component certified box.
- Following EN Standards were Updated
  - EN 60079-0: 2018
  - EN 60079-13: 2017
  - EN 60079-15: 2019
  - EN 60079-7: 2015+A1:2018

<END>