(1) **Manufacturer's Declaration of Conformity**

(2) Expo Technologies Document Number EXPO 16MDOC1351

(3) This declaration is issued for the electrical apparatus:

Expo Room Pressurizing 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 confirms Room Pressurization units has been designed in compliance with the following standards:

ANSI/ISA 60079-0 - 2009	General requirements
IEC 60079-13:2010	Pressurized rooms "p"
ANSI/ISA 60079-7-2008	Equipment Protection by Increased Safety "e"
ANSI/ISA 60079-11-2011	Equipment Protection by Intrinsic Safety "i"
ANSI/ISA 60079-15-2009	Protection type "n"

(7) Room Pressurization units Type 15 RPx-xxxx-xxx complies with the requirements of NFPA 70 Article 505 (NEC 505).

(8) The design is documented in Expo Technologies Technical Construction File number SC35

(9) In accordance with NFPA 70 Article 505.9(A), Room Pressurization units Type 15 RPx-xxxx-xxx are suitable for safe use in Hazardous Locations, and can be marked in accordance with NFPA 70 Article 505.9(C)(2) as:

Class I, Zone 2, AEx e ic nA nR [pz] IIB+H2 T3 Gc

For and on behalf of Expo Technologies Ltd.
Sunbury on Thames, 10th March 2016

Martha Carrillo
Director of Business Systems

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Annex to Manufacturer's Declaration of Conformity EXPO 16MDOC1351

10 Description:

Room Pressurization is a pressurizing and ventilation systems for rooms. The system contains an increased safety brushless induction motor fan or dual fan (optional), a Restricted-Breathing enclosure for the System Control and a non-sparking Electrical Terminal Box with local and remote inputs for power; and outputs for interfacing with the integrated room protection system.

Where required, the system may provide interfaces for fire & gas detectors, outlet valves, fire dampers and other accessory equipment. All user interfaces are via the non-sparking 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^3/hr to 4750m^3/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 IP54 rating is maintained.

The System Control Enclosure is protected by restricted breathing. If opened the integrity of the protection shall be confirmed by testing the leakage rate as described in the manual for the system. 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

13 Documentation

Title	Drawing no	Rev	Sheets
Room Pressurizer (1 fan, 1 door)	SD8188	1	1 of 1
Room Pressurizer (2 fan, 1 door)	SD8189	1	1 of 1
Room Pressurizer (1 fan, 2 door)	SD8190	1	1 of 1
Room Pressurizer (2 fan, 2 door)	SD8191	1	1 of 1
Interconnection Diagram	SD8193	1	1 of 1
Numbering System	SD8194	1	1 of 1
Electrical Terminal Box	SD8192	1	1 of 1
System Control Enclosure	SD8187	1	1 to 5
System Manual (single fan)	ML543		
System Manual (dual fan)	ML544		

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