



# 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 ITS 12.0077X

Issue No: 2

Certificate history:

Issue No. 2 (2015-10-06)

Issue No. 1 (2014-03-03)

Issue No. 0 (2013-03-04)

Status: **Current**

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Date of Issue: **2015-10-06**

Applicant: **Specialist Services**  
PO Box 2752  
Jebel Ali Industrial Area 2&3, Dubai, United Arab Emirates.  
**United Arab Emirates**

Equipment: **Pressurized Room**

*Optional accessory:*

Type of Protection: **pz**

Marking:  
Ex pz IIB T3 Gc  
IECEX ITS 12.0077X

*Approved for issue on behalf of the IECEx  
Certification Body:*

D G Bosson

*Position:*

Certification Officer

*Signature:  
(for printed version)*

*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](http://www.iecex.com).

Certificate issued by:

**Intertek Testing & Certification Limited**  
ITS House, Cleeve Road,  
Leatherhead,  
Surrey, KT22 7SB  
United Kingdom





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Manufacturer: **Specialist Services**  
Specialist Services, PO Box 2752, Jebel Ali Industrial Area 2&3, Dubai, United Arab Emirates.  
**United Arab Emirates**

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:

**IEC 60079-0 : 2011** Explosive atmospheres - Part 0: General requirements  
Edition:6.0

**IEC 60079-13 : 2010-10** Explosive atmospheres - Part 13: Equipment protection by pressurised room "p"  
Edition:1.0

*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:

[GB/ITS/ExTR12.0079/02](#)

Quality Assessment Report:

[GB/ITS/QAR12.0010/01](#) [GB/ITS/QAR12.0010/02](#)



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## Schedule

### EQUIPMENT:

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

The Hazardous Area Modular Buildings are Pressurised Rooms (PR) suitable for Zone 2 hazardous areas, the PR's have no internal source of release. Input voltages are selectable from 380Vac to 690Vac and can be powered by both 50Hz and 60 Hz supplies. Dual output voltages are available of 110 Vac and 220 Vac which are provided by the power transformer. All electrical devices external to the PR and those used in the airlock of the PR are IECEx certified for Zone 2 use (minimum). The PR electrical system utilises an Ex d certified Combined Pressurisation Fire and Gas (CPFG) system to allow use of both Ex and non Ex equipment within the PR. The CPFG system monitors the purging cycle, the ventilation flow rate, the differential pressure as well as fire and gas alarms. The CPFG system applies power to the non-Ex equipment once the initial purge criterion has been met. On loss of pressure, flow or detection of gas the CPFG will shut down the non Ex equipment. The PR can vary in length from 10ft to 30ft, the internal layout may vary for each PR. The Ex equipment will be used in order to establish a safe working environment and position of these devices will vary depending on the internal set-up that is required. The PR has a structural frame manufactured from 6mm mild steel and an outer shell manufactured from 3 mm mild steel. The PR has a minimum height of 2.0 metres. The ambient operating range is -20°C to + 40°C however if an extended range is required then the Ex equipment utilised shall have an appropriate ambient range.

### Conditions of Use

Manufacturer to confirm that when both external airlock doors are open an alarm is sounded.

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

- There is no internal source of release
- Audible and visual alarms are correctly placed and fitted
- All Ex equipment shall be installed in accordance with IEC 60079-14.
- The air used to purge the pressurised room shall be taken from a non-hazardous area.
- All Equipment that remains energised when purge is lost shall have a suitable IEC Ex certificate for the area of use (Gc, ambient range etc)
- A functionality check of the CPFG and the gas detectors shall be carried out (prior to shipping).



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**DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):**

Issue 1. Change of manufacturer's address, telephone number and fax number

Issue 2. Optional secondary external door to be fitted.

**Annex:**

[Annex to IECEX ITS 12.0077X issue 02.pdf](#)



**ANNEX: Schedule of Drawings for Certificate IECEx ITS 12.0077X Issue 2**

<b>Title</b>	<b>Drawing No.:</b>	<b>Rev. Level:</b>	<b>Date:</b>
EX PRESSURISATION TYPICAL ACCEPTABLE LAYOUT OPTIONS FOR ZONE 2 HAZARDOUS AREAS (PAGES 1 TO 2 )	SS-OH-O-T2-E-D-300	G	28.JUN.15
EX PRESSURISATION EQUIPMENT SCHEMATIC AND LOAD SCHEDULE FOR ZONE 2 HAZARDOUS AREAS	SS-OH-O-T2-E-D-301	D	28.JUN.15
BILL OF MATERIALS & CABLE SCHEDULE (PAGES 1 TO 2)	SS-OH-O-T2-E-M-302	E	29.JUN.15
SAMPLE PURGE TIME CALCULATOR AS PER IEC 60079-13 (PAGES 1 TO 6)	SS-OH-O-T2-E-C-303	C	7-Oct-13
SAMPLES IS CALCULATION (PAGES 1 TO 5)	SS-OH-O-T2-E-C-304	C	08.OCT.13
INPUT/OUTPUT SCHEDULE LISTING OF SET POINTS	SS-OH-O-T2-E-L-305	D	05.OCT.15
CAUSE & EFFECT CHART FOR ZONE 2 HAZARDOUS AREAS	SS-OH-O-T2-E-L-306	D	30.JUN.15
EARTHING DETAILS FOR ZONE-2 HAZARDOUS AREA	SS-OH-O-T2-E-D-307	C	08.OCT.13
LABEL DETAILS FOR ZONE-2 HAZARDOUS AREA	SS-OH-O-T2-E-D-308	G	21.JUL.15
SAFETY INTERGRITY LEVEL (SIL) CALCULATION (PAGES 1 TO 15)	SS-OH-O-T2-E-C-330	1	7-Oct-13
DUCT AIR FLOW DIAGRAM	SS-OH-O-T2-H-D-400	C	08.OCT.13

Note that the following drawing is now obsolete and from this point forward is removed from the certification:

LABEL DETAILS	SS-OH-O-T2-E-D-308	D	05.FEB.13
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