



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEx CQM 19.0019X** Page 1 of 4 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: **2019-11-13**

Applicant: **WAROM Technology Incorporated Company**
No. 555, Baoqian Road, Jiading District
Shanghai, 201808
China

Equipment: **Pressurized distribution cabinets PXK...**

Optional accessory:

Type of Protection: **Ex "d", "e", "p", "tb"**

Marking: **Ex db eb pxb II C T4 Gb, Ex pxb tb III C T130°C Db IP66**
Tamb: -40°C ~ +55°C

Approved for issue on behalf of the IECEx
Certification Body:

Ji Xiaodong

Position:

General Manager

Signature:
(for printed version)

Date:

2019-11-13

1. This certificate and schedule may only be reproduced in full.
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Certificate issued by:

China Quality Mark Certification Group Co., Ltd.
No. 33 Zengguang Road, Haidian District
Beijing City, Postal code: 100048
China





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Manufacturer: **WAROM Technology Incorporated Company**
No. 555, Baoqian Road, Jiading District
Shanghai, 201808.
China

Additional
manufacturing
locations: **WAROM Technology Mena Fzco**
Plot No.S31223, Jebel Ali Free Zone
Dubai 263667
United Arab Emirates

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 equipment 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 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-1:2014-06 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

IEC 60079-2:2014-07 Explosive atmospheres - Part 2: Equipment protection by pressurized enclosure "p"
Edition:6

IEC 60079-31:2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

IEC 60079-7:2017 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

This Certificate **does not** indicate compliance with 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:

[CN/CQM/ExTR19.0023/00](#)

Quality Assessment Report:

[CN/CQM/QAR07.0003/09](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

PXK Pressurized Distribution Cabinets						
No.	Model	Outline dimension(mm)	Positive pressure cavity volume	Ventilation flow	Ventilation time	Air leakage
1	K1	600×600×350	0.126m ³	10 m ³ /h	5min	2m ³ /h
2	K2	600×800×350	0.168m ³		6min	
3	K3	800×1000×350	0.28m ³		9min	
4	K4	800×1200×400	0.384m ³		13min	
5	K5	800×1200×600	0.576m ³		18min	
6	K6	800×1600×600	0.64m ³		20min	
7	K7	800×2000×600	0.96m ³		29min	
8	K8	1000×1800×600	1.08m ³		33min	
9	K9	1000×2000×600	1.2m ³		40min	
10	K10	1200×2000×600	1.44m ³		45min	
11	K11	1000×2000×800	1.6m ³		48min	
12	K12	1200×2000×800	1.92 m ³		58min	
13	K13	1400×2000×800	2.24 m ³		68min	
UV Hood Cabinets						
No.	Model	Positive pressure cavity volume	Minimum water change flow	Ventilation flow	Ventilation time	Air leakage
1	UV1	0.065 m ³	30m ³ /h	7.2m ³ /h	4min	1m ³ /h
2	UV2	0.07 m ³	60m ³ /h		4min	
3	UV3	0.08 m ³	90m ³ /h		5min	
4	UV4	0.083 m ³	150m ³ /h		5min	
5	UV5	0.085 m ³	210m ³ /h		5min	
6	UV6	0.129 m ³	270m ³ /h		7min	
7	UV7	0.161 m ³	360m ³ /h		8min	
8	UV8	0.187 m ³	480m ³ /h		10min	

SPECIFIC CONDITIONS OF USE: YES as shown below:

- The enclosure with installed cable gland should meet the requirement of IP66 and sealing property of the pressurized enclosure.
- Cannot be used in areas affected by charge- producing processes, mechanical friction and separation processed electron emission (e.g in the vicinity of electrostatic coating equipment), and pneumatically conveyed dust to avoid electrostatic in the manual.
- When the rated current is greater than or equal to 200A, cables with limited temperature exceeded 90°C should be used.
- Tamb: -40°C ~ +55°C.
- WARNING-POWER SHALL NOT BE RESTORED AFTER THE ENCLOSURE HAS BEEN OPENED UNTIL COMBUSTIBLE DUST ACCUMULATIONS WITHIN THE ENCLOSURE HAVE BEEN REMOVED. WARNING – DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT. WARNING – POTENTIAL ELECTROSTATIC CHARGING HAZARD –SEE INSTRUCTIONS. WARNING –PRESSURIZED ENCLOSURE. CAUTION-USE FASTENER WITH YIELD STRESS≥450N/mm



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Equipment (continued):

General product information:

The product is composed of a distribution cabinet with type protection pxb, an UV hood cabinet with type protection pxb and a control system. The control system includes the BXX control box (db) with pressure and flow sensor inside which can indicate pressure, flow rate and alarm information, air inlet and outlet assembly. The distribution cabinets is used to control the UV hood cabinets, and the UV hood cabinet is used to process seawater.

Cable glands DQM-I and DQM-II are used at cable entry. The cable gland DQM-I with type of protection "e" and "t" is certified under the IECEx EUT 17.001X. The cable gland DQM-II with type of protection "d" and "t" is certified under the IECEx LCI 08.0011X. The structure of these cable glands complies the requirement of IEC 60079-0, Edition 7.0; IEC 60079-1, Edition 7.0; IEC 60079-7, Edition 5.1.

Rating:

Rated voltage: Max.1000V AC 50/60Hz, Max.1500V DC

Rated current: Max. 630A

Routine tests:

1.Static pressure test : Explosion protected enclosures should submit to static pressure test. The pressure is 1.2MPa.Test duration: 10~12s.

2.Functional test: Refer to manufacturer's document 3HR 690 382 Version 1.0 "PXX Series Explosion-proof Pressurized Distribution Cabinets Instruction".

3. Leakage test;The pressurized enclosure shall be adjusted to 600Pa. With the outlet aperture closed, the leakage flow rate shall be measured at the inlet aperture.

The leakage flow rate should be less than or equal to 2m³/h,.