



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 QPS 18.0007X** Page 1 of 4 **Certificate history:**
Status: **Current** Issue No: 5 **Issue 4 (2020-07-09)**
Date of Issue: 2022-01-28 **Issue 3 (2020-05-13)**
Issue 2 (2020-03-10)
Applicant: **Ice Qube Inc.** **Issue 1 (2019-02-15)**
141 Wilson Avenue **Issue 0 (2018-08-28)**
Greensburg, PA. 15601
United States of America

Equipment: **Air conditioners, Models IQ4000EX, IQ5000EX, IQ6000EX, IQ8000EX, IQ10000EX, IQ12000EX**

Optional accessory:

Type of Protection: **Flameproof "db", Increased Safety "eb", Intrinsic Safety "ib"**

Marking: **IECEX QPS 18.0007X**
Ex db eb ib IIB+H2 T4 Gb
T_{amb}: -40°C to +60°C

Approved for issue on behalf of the IECEx
Certification Body:

Dave Adams, P. Eng.

Position:

Manager, Hazardous Locations Department [Ex Equipment]

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 www.iecex.com or use of this QR Code.



Certificate issued by:

**QPS
Evaluation Services Inc.
81 Kelfield St
Unit 8
Toronto, Ontario M9W 5A3
Canada**





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Date of issue: 2022-01-28

Issue No: 5

Manufacturer: **Ice Qube Inc.**
141 Wilson Avenue
Greensburg, PA 15601
United States of America

Additional manufacturing locations:

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 60079-11:2011](#) Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

[IEC 60079-7:2015](#) Explosive atmospheres – Part 7: Equipment protection by increased safety "e"
Edition:5.0

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 Reports:

[CA/QPS/ExTR18.0010/00](#)
[CA/QPS/ExTR18.0010/03](#)

[CA/QPS/ExTR18.0010/01](#)
[CA/QPS/ExTR18.0010/04](#)

[CA/QPS/ExTR18.0010/02](#)

Quality Assessment Report:

[CA/QPS/QAR20.0002/00](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

Air Conditioner models IQ4000EX, IQ5000EX, IQ6000EX, IQ8000EX, IQ10000EX, IQ12000EX are intended to be mounted to an adjacent enclosure. The evaporator compartment freely communicates with the adjacent, blowing the conditioned air. The condenser compartment is open to the surrounding atmosphere.

Electrical Rating: Refer to Annex page for detail.

SPECIFIC CONDITIONS OF USE: YES as shown below:

- Please contact Ice Qube with any questions regarding services before opening or altering the system from its original factory configuration.
- Surfaces are to be cleaned only with a damp cloth to avoid build-up of electrostatic charge.
- Cable type should be a flexible conduit that is effectively clamped to prevent twisting and pulling.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Issue 0: Initial

Issue 1: Revised. IECEx Marks with "eb" instead of "e". the new IECEx code is "Ex db eb ib IIB+H2 T4 Gb".

Issue 2: Linked to a new QAR. CA/QPS/QAR20.0002/00

Issue 3: Addition of alternate thermostate.

Issue 4: a. Adding alternate Air Condition enclosure's materials with options of 304 stainless steel, 304 stainless steel custom color, carbon steel powder coated, carbon steel custom.

- b. Updated the Product ID label drawing.
- c. Add two alternative explosion proof enclosures.
- d. Updated the Bill of material affected by changes in above items.

Issue 5: a. Add one alternative flameproof enclosures.

- b. Add one alternate brass cable gland for use with the flameproof enclosure.
- c. Updated the Bill of material affected by changes in above items.

Annex:

[IECEX QPS18_0007X_05_Annex.pdf](#)



QPS Evaluation Services Inc.

Testing, Certification and Field Evaluation Body
Accredited in Canada, the USA, and Internationally

ANNEX to IECEx QPS 18.0007X Issue No: 5, Date: 2022-01-27

Electrical Rating;

UNIT MODEL	VOLTAGE	FREQUENCY	AMPERAGE	REFRIGERANT TYPE	CHARGE QUANTITY	T CODE
IQ4000EX	220	50/60	7.44	407C	18oz	T4
	230		8.80			
	240		7.35/8.64			
IQ5000EX	220		7.74		22oz	
	230		9.53			
	240		7.59/9.40			
IQ6000EX	220		8.69		28oz	
	230		10.47			
	240		8.57/10.31			
IQ8000EX	220		10.69		60oz	
	230		11.33			
	240		10.59/11.19			
IQ10000EX	220	10.89	64oz			
	230	11.64				
	240	10.78/11.48				
IQ12000EX	220	11.20	74oz			
	230	12.07				
	240	11.09/11.89				

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