QPS Evaluation Services Inc

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

Certificate Number
QPS 16ATEX0002X-05

CERTIFICATE OF COMPLIANCE

(1) Type Examination

(2) **Product intended for use in potentially explosive atmospheres - Directive 2014/34/EU**

(3) Type Examination Certificate Number: QPS 16ATEX0002X Issue Number: **5th**

(4) Product: **Air conditioner for computer and electronics equipment enclosure**

(5) Manufacturer: **Ice Qube, Inc.**

(6) Address: **141 Wilson Ave. Greensburg, PA, 15601, USA**

(7) This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) QPS Evaluation Services Inc., certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014.

The examination and test results are recorded in confidential test report no. ATX1682-2

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018

EN IEC 60079-7:2015: A1:2018

except in respect of those requirements listed at item 18 of the Schedule.

(10) If the sign ”X” is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

(11) This Type Examination Certificate relates only to the design and construction of the specified product and not to the manufacturing process and its monitoring.

(12) The marking of the product shall include the following:

II 3 G Ex ec IIC T5/T4/T3* Gc
Ta= -40˚C to +60˚C
***Refer to Annex #1 for detail**

Certificate Number
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(13) **SCHEDULE**

(14) **to Type Examination Certificate QPS 16ATEX0002X** Issue No. **5**

(15) **Description**

The air conditioner model IQ…EV Z2 series air conditioner are intended to be mounted to an adjacent enclosure that provides cooling and dehumidifying to the computer and electronic equipment enclosure. The evaporator compartment freely communicates with the adjacent enclosure, blowing the conditioned air. The condenser compartment is open to the surrounding atmosphere.

The air conditioner model IQ series comprise of metal enclosure, hermetically sealed air compressor, Sealed components, and brushless impeller Fan. The temperature controller and the electronics components are installed a compartment where connect to the cool air outlet. Therefore, many electrical and electronic component's service temperature are not affected by the Ambient temperature**.**

Electrical data

120 V 60 Hz, 220/230 V 50/60Hz, 240 V 50/60Hz,
400 V 50/60 Hz, 440 V 50/60 Hz, 480V 50/60Hz.

Installation instructions

Evolution Series Air Conditioners Zone 2 ATEX and IECEx Hazardous Locations*
OPERATION AND INSTALLATION MANUAL. Doc.#. QD-ENG-71.

(16) **Report Number:** ATX1682-2

(17) **Specific conditions of use**

1. "WARNING – Potential Electrostatic Charging Hazard-See Instructions"

(18) **Essential Health and Safety Requirements**

Covered by the standards listed at item (9).

(19) **Test documentation**

As listed in Report No. ATX1682-2

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(20) **Certificate history**

Issue 0 - initial certificate
Issue 1 -
- i. Revised model # with added on a suffix of "Z2"
- ii. Added on new models to the IQ Series with large Capacity air conditioner.

Issue 2 -
- i. Added on new models to the IQ series Air Conditioner with expanding cooling capacity. New models: IQ1000EV Z2, IQ2000EV Z2, IQ3000EV Z2, IQ14000EV Z2, IQ17000EV Z2 and IQ20000EV Z2.

Issue 3 -
- i. Revised the input voltages to including 240V 50/60Hz and 440 V 50/60Hz to the IQ....EV series.

Issue 4 -
- i. Update the evaluation from EN 60079-0: Edition 6 to EN IEC 60079-0: edition: 7
- ii. Re-evaluated from "nA, nC" to “ec” according to EN IEC 60079-0: edition 7. and including EN IEC 60079-7:2015: A1:2018.
- iii. Revise Marking Label.

Issue 5 -
- i. Added, alternate blowers for use as evaporator and condenser blower.

Issued By: Dave Adams P.Eng.
Manager, Hazardous Locations Department

Signature: 

Date: May 20, 2022

Annex #1 T Code Reference

Model	Without Crankcase heater	With Crankcase heater
IQ1000EV Z2	T6	T5
IQ2000EV Z2	T6	T5
IQ3000EV Z2	T6	T5
IQ4000EV Z2	T4	T3
IQ5000EV Z2	T4	T3
IQ6000EV Z2	T4	T3
IQ8000EV Z2	T4	T3
IQ10000EV Z2	T4	T3
IQ12000EV Z2	T4	T3
IQ14000EV Z2	T5	T4
IQ17000EV Z2	T5	T4
IQ20000EV Z2	T5	T4

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Technical Documents

Title:	Drawing No.:	Rev. Level:	Date:
IQ351318 REV E_Product ID Label, EVZ2	IQ351318	E	03/03/2021
IQ351468 Rev B_Spec Drawing, IQ1000EVZ2	IQ351468	B	26/04/2018
IQ351469 Rev B_Spec Drawing, IQ2000EVZ2	IQ351469	B	26/04/2018
IQ352672 Rev 2_BOM, IQ1-2000EVC1Z2 120V	IQ352672	2	03/04/2022
IQ352880 Rev 1_BOM, IQ1-2000EVC1Z2 230V	IQ352880	1	03/04/2022
IQ352881 Rev 1_BOM, IQ1-2000EVC1Z2 480V	IQ352881	1	03/04/2022
IQ351470 Rev B_Spec Drawing, IQ3000EVZ2	IQ351470	B	26/04/2018
IQ352674 Rev 2_BOM, IQ3000EVC1Z2 120V	IQ352674	2	03/04/2022
IQ352882 Rev 1_BOM, IQ3000EVC1Z2 230V	IQ352882	1	03/04/2022
IQ352883 Rev 1_BOM, IQ3000EVC1Z2 480V	IQ352883	1	03/04/2022
IQ351245 Rev C_Spec Drawing, IQ4000EVZ2	IQ351245	C	26/04/2018
IQ351246 Rev C_Spec Drawing, IQ5000EVZ2	IQ351246	C	26/04/2018
IQ351247 Rev C_Spec Drawing, IQ6000EVZ2	IQ351247	C	26/04/2018
IQ352675 Rev 2_BOM, IQ4-5-6000EVC1Z2 120V	IQ352675	2	03/04/2022
IQ352676 Rev 2_BOM, IQ4-5-6000EVC1Z2 230V	IQ352676	2	03/04/2022
IQ352677 Rev 2_BOM, IQ4-5-6000EVC1Z2 480V	IQ352677	2	03/04/2022
IQ351311 Rev C_Spec Drawing, IQ8000EVZ2	IQ351311	C	26/04/2018
IQ352678 Rev 2_BOM, IQ8000EVC1Z2 120V	IQ352678	2	03/04/2022
IQ352679 Rev 2_BOM, IQ8000EVC1Z2 230V	IQ352679	2	03/04/2022
IQ352680 Rev 2_BOM, IQ8000EVC1Z2 480V	IQ352680	2	03/04/2022
IQ351312 Rev C_Spec Drawing, IQ10000EVZ2	IQ351312	C	26/04/2018
IQ351313 Rev C_Spec Drawing, IQ12000EVZ2	IQ351313	B	26/04/2018
IQ352681 Rev 2_BOM, IQ10-12000EVC1Z2 120V	IQ352681	2	03/04/2022
IQ352682 Rev 2_BOM, IQ10-12000EVC1Z2 230V	IQ352682	2	03/04/2022
IQ352683 Rev 2_BOM, IQ10-12000EVC1Z2 480V	IQ352683	2	03/04/2022
IQ351564 Rev B_Spec Drawing, IQ14000EVZ2	IQ351564	B	26/04/2018
IQ352684 Rev 2_BOM, IQ14000EVC1Z2 230V	IQ352684	2	03/04/2022
IQ352884 Rev 1_BOM, IQ14000EVC1Z2 480V	IQ352884	1	03/04/2022
IQ351565 Rev B_Spec Drawing, IQ17000EVZ2	IQ351565	B	26/04/2018
IQ352685 Rev 2_BOM, IQ17000EVC1Z2 230V	IQ352685	2	03/04/2022
IQ352885 Rev 1_BOM, IQ17000EVC1Z2 480V	IQ352885	1	03/04/2022
IQ351566 Rev B_Spec Drawing, IQ20000EVZ2	IQ351566	B	26/04/2018
IQ352686 Rev 2_BOM, IQ20000EVC1Z2 230V	IQ352686	2	03/04/2022
IQ352886 Rev 1_BOM, IQ20000EVC1Z2 480V	IQ352886	1	03/04/2022