



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 EXV 19.0071X** Page 1 of 3 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: 2020-08-14

Applicant: **EXPO Technologies Limited**
Summer Road
Thames Ditton
Surrey KT7 0RH
United Kingdom

Equipment: **Cabinet Vortex Coolers Types 1, 2, 3 & 4.**

Optional accessory:

Type of Protection: **Ex h**

Marking: **Ex h IIC T4 Gb Tamb -20° to +55°C**

Approved for issue on behalf of the IECEx
Certification Body:

Sean Clarke CEng MSc MIET

Position:

Certification Manager

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:

ExVeritas Limited
Units 16-18 Abenbury Way
Wrexham Ind. Est.
Wrexham LL 139UZ
United Kingdom





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Page 2 of 3

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Manufacturer: **EXPO Technologies Limited**
Summer Road
Thames Ditton
Surrey KT7 0RH
United Kingdom

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

ISO 80079-36:2016 Explosive atmospheres - Part 36: Non-electrical equipment for explosive atmospheres - Basic methods and requirements
Edition: 1.0

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 Report:

[GB/EXV/ExTR19.0085/00](#)

Quality Assessment Report:

[GB/SIR/QAR07.0012/17](#)



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Page 3 of 3

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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

Vortex Cooler Type	Electrical Rating	Model	Ingress Protection Rating
Type 1	110 Vac or 230 Vac or 24 Vdc	AVC-XXXX-XXX	IP40
Type 2	110 Vac or 230 Vac or 24 Vdc	AVC-XXXX-XXX	IP66
Type 3	110 Vac or 230 Vac or 24 Vdc	AVC-XXXX-XXX	IP66
Type 4	110 Vac or 230 Vac or 24 Vdc	AVC-XXXX-XXX	IP40

The Expo Technologies Cabinet Vortex Cooler provides cooling for pressurized enclosures using compressed air. Cooling may be required either to remove heat generated by the contents of the enclosure and or to compensate for high ambient temperatures.

SPECIFIC CONDITIONS OF USE: YES as shown below:

- To avoid electrostatic charging steps must be taken to ensure the equipotential bonding is maintained between the cabinet vortex cooler, cabinet and earth.
- The cabinet vortex cooler control electronics shall either be placed in the safe area or protected by a suitable protection concept with the required ATEX Category for the area classification.
- The maximum inlet air pressure to the cabinet vortex cooler shall not exceed 7 Bar even under a fault condition.
- The maximum inlet air temperature shall not exceed + 55 °C.