



# 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 SIR 18.0011X

Issue No: 0

Certificate history:

Issue No. 0 (2018-09-17)

Status: **Current**

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Date of Issue: **2018-09-17**

Applicant: **Air Control Industries Limited**  
Weycroft Avenue  
Millwey Rise Industrial Estate  
Axminster EX13 5HU  
**United Kingdom**

Equipment: **VB, MR, #MS11 and H Centrifugal Fans**

Optional accessory:

Type of Protection: **Mechanical 'h'**

Marking:

**VB, MR, #MS11 and H Centrifugal Fans**

Ex h IIC T6...T1 Gb

Ex h IIC T6...T1 Gc

Ex h IIIC T85°C...T450°C Db

Ex h IIIC T85°C...T450°C Dc

Note - The temperature class and EPL of the equipment is determined by the associated motor.

**LNL Drying System**

Ex h IIC T6 Gc

Approved for issue on behalf of the IECEx  
Certification Body:

C Ellaby

Position:

Deputy Certification Manager

Signature:  
(for printed version)

Date:

2018-09-17

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:

**SIRA Certification Service**  
CSA Group  
Unit 6, Hawarden Industrial Park  
Hawarden, Deeside, CH5 3US  
United Kingdom

**sira**  
CERTIFICATION





# IECEX Certificate of Conformity

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Date of Issue: 2018-09-17 Page 2 of 4  
Manufacturer: **Air Control Industries Limited**  
Weycroft Avenue  
Millwey Rise Industrial Estate  
Axminster EX13 5HU  
**United Kingdom**

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 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:

<b>ISO 80079-36 : 2016</b> Edition:1.0	Explosive atmospheres - Part 36: Non-electrical equipment for explosive atmospheres - Basic methods and requirements
<b>ISO 80079-37 : 2016</b> Edition:1.0	Explosive atmospheres - Part 37: Non-electrical equipment for explosive atmospheres - Non electrical type of protection constructional safety "c", control of ignition source "b", liquid immersion "k"

*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/SIR/ExTR18.0085/00](#)

##### Quality Assessment Report:

[GB/SIR/QAR18.0006/00](#)



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## Schedule

### EQUIPMENT:

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

The VB, MR, #MS11 and H Centrifugal Fans are designed to provide air ventilation at flow rates up to 11000 m<sup>3</sup>/h. They comprise a centrifugal fan that is mounted on the shaft of a suitably certified motor and enclosed by a housing that is bolted to the motor. The centrifugal impellers are manufactured from aluminium, stainless steel or galvanised steel and are mounted on a hub that fits to the motor shaft. The fan housings are manufactured from mild steel, stainless steel or cast aluminium and may have flat air inlet plates or spun air inlet guides that may be fitted with polyurethane foam, retained by mesh, for filtration purposes. The equipment is designed to have suitable clearances between rotating and stationary parts but brass, copper or PTFE rubbing rings are included as a precaution against incendive sparking in the event of the fan striking the housing. Non-return valves can also be fitted if required; these consist of brass flapper plates that swivel in a stainless steel housing.

The #MS11 type may have up to ten centrifugal impellers; these are mounted on a shaft adaptor and, with this option, the fan casing includes additional air guides to maximise efficiency.

The exterior of the fan has an equipment protection level (EPL) of Gb and Db. The interior of the fan has an equipment protection level (EPL) of Gb and Dc. (these levels have been established through assessment of the equipment against the standard for the Design of Fans Working in Potentially Explosive Atmospheres, EN 14986).

The EPL and temperature class of the equipment is derived from the temperature class marked on the motor, the motor is not included in the provisions of this certification.

An LNL drying system can also be provided with or without the centrifugal fans. The LNL drying system consists of a stainless steel enclosure that houses ancillary drying equipment. The ancillary drying equipment, which incorporates jet plates, airknives, can dryers, cap dryers & neck dryers, emits and directs air in different ways and directions.

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

1. The equipment has non-conductive surfaces which are a potential electrostatic charging hazard – see the instructions for guidance



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## EQUIPMENT (continued):

### Conditions of Manufacture

1. The fans shall be marked with the EPL and temperature class that is appropriate to its associated motor.
2. When brass CZ108 is used in their construction, the fans have an equipment protection level (EPL) of Gc and Dc; the manufacturer shall ensure that they are appropriately marked.