



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

Certificate No.: IECEx INE 18.0022X

Issue No: 0

Certificate history:

Issue No. 0 (2018-12-14)

Status: **Current**

Page 1 of 3

Date of Issue: **2018-12-14**

Applicant: **QUASAR SERVICE s.r.l**
Via Bergamo,14
24050 Grassobbio (BG)
Italy

Equipment: **Air Conditioner type QAC...-Ex**

Optional accessory:

Type of Protection: **h**

Marking:
Ex h IIB/IIC T4..T3 Gb
Ex h IIC T135°C..T200°C Db

*Approved for issue on behalf of the IECEx
Certification Body:*

Thierry HOUEIX

Position:

Ex Certification Officer

*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 the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

INERIS
Institut National de l'Environnement Industriel
et des Risques, BP n2
Parc Technologique ALATA
France



IECEX Certificate of Conformity

Certificate No: IECEX INE 18.0022X

Issue No: 0

Date of Issue: **2018-12-14**

Page 2 of 3

Manufacturer: **QUASAR SERVICE s.r.l**
Via Bergamo,14
24050 Grassobbio (BG)
Italy

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:

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

ISO 80079-37 : 2016 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"
Edition:1.0

*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:

[FR/INE/ExTR18.0040/00](#)

Quality Assessment Report:

[FR/INE/QAR14.0004/04](#)



IECEX Certificate of Conformity

Certificate No: IECEx INE 18.0022X

Issue No: 0

Date of Issue: 2018-12-14

Page 3 of 3

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The air conditioner for electrical cabinets type QAC...-Ex are designed in two parts:

- one inside (CUI), not suitable for explosive atmosphere, and
- one outside (CUE), suitable for explosive atmosphere classified zone 1 and 21.

The air conditioner shall be used with Ex p certified cabinets, to guarantee the protection of the inside module (CUI).

SPECIFIC CONDITIONS OF USE: YES as shown below:

For installation in Zone 21 environment:

- a filter with a filtration grade G2 shall be placed before the fan when the dust particles size is up to 20 µm.
- a filter with a filtration grade G4 shall be placed before the fan when the dust particles size is up to 10 µm.
- when the dust particles size is lower than 10 µm, a constant vibration monitoring with alarms and shuts down at levels as required by ISO 14694 shall be done. The sensor used for the vibration monitoring shall be IECEx certified and integrated in an ignition protection system of level b1 according ISO 80079-37 standard.

The other conditions of use are stipulated in the instructions.

Annex:

[IECEX INE 18.0022X-00_Annex.pdf](#)



IECEX Certificate of Conformity

Certificate No.: IECEX INE 18.0022X

Issue No.: 00

Page 1 of 1

Annex: IECEX INE 18.0022X-00_Annex.pdf

PARAMETERS RELATING TO THE SAFETY

Cooling capacity : 1.4 / 2.0 / 2.7 kW
Total max power consumption : 1.2 / 1.5 / 2.0 kW
Nominal supply : 115 / 230 V – 120 / 240V
Nominal frequency : 50 / 60 Hz

<i>Couple of materials for rotating and stationary parts for Gas Group IIB</i>	
<i>Rotating parts</i>	<i>Stationary parts</i>
PAGAS	stainless steel
stainless steel	stainless steel
<i>Couple of materials for rotating and stationary parts for Gas Group IIC</i>	
<i>Rotating parts</i>	<i>Stationary parts</i>
PAGAS	stainless steel

ROUTINE EXAMINATIONS AND TESTS

Each pieces of equipment defined above has to have successfully passed; before delivery:

- The rotating assembly shall have a balance quality grade according to ISO 14694.

MARKING :

Marking has to be readable and indelible; it has to include the following indications:

- QUASAR SERVICE S.r.l
I - 24050 GRASSOBBIO (BG)
- QAC...-Ex⁽¹⁾
- IECEX INE 18.0022X
- (Serial number)
- Ex h IIB/IIC⁽²⁾ T4/T3⁽²⁾ Gb
- Ex h IIIC T135°C/T200°C⁽²⁾ Db
- Tamb = -40°C to +55°C

The minimum and maximum ambient temperature can be variable within the indicated range according the design and/or installed equipment.

(1) : In accordance with the Identification code and tables of specifications which are defined in the manufacturers documents.

(2) : Equipment Gas Group, Dust Group and Temperature Class are dependent on configuration and rating of drive motor fitted.