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 IBE 17.0023X

Issue No: 0

Certificate history:
Issue No. 0 (2018-03-02)

Status: **Current**

Date of Issue: **2018-03-02**

Applicant: **Bühler Technologies GmbH**
Harkortstr. 29
40880 Ratingen
Germany

Equipment: **sample gas chiller EGK 1 Ex2**

Optional accessory:

Type of Protection: **increased safety "e" in combination with type of protection "n"**

Marking:
Ex ec nA nC IIC T4 Gc

Approved for issue on behalf of the IECEx Certification Body: Dipl.-Ing. Alexander Henker

Position: Deputy Head of Certification Body

Signature:
(for printed version)

A. Henker

Date: 2018-03-02

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.

Certificate issued by:

IBExU Institut für Sicherheitstechnik GmbH
Certification Body
Fuchsmühlenweg 7
09599 Freiberg
Germany

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Manufacturer:	**Bühler Technologies GmbH** Harkortstr. 29 40880 Ratingen **Germany**	

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 electrical 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:

IEC 60079-0 : 2011 Edition:6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-15 : 2010 Edition:4	Explosive atmospheres - Part 15: Equipment protection by type of protection "n"
IEC 60079-7 : 2015 Edition:5.0	Explosive atmospheres – Part 7: Equipment protection by increased safety "e"

*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:

DE/IBE/ExTR16.0032/00

Quality Assessment Report:

DE/BVS/QAR16.0002/01

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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Sample gases contain vapour which has to be withdrawn before it reaches the gas analyzer. The Gas flows through a heat exchanger (impinger) inserted into a cooling block. The latter then is cooled to a preset temperature (5°C mostly). The gas is cooled or heated as required.

Electrical Data:

rated voltage:	230 V	115 V
rated power:	140 VA	155 VA
max. current:	1.6 A	3.2 A

SPECIFIC CONDITIONS OF USE: YES as shown below:

The sample gas chiller must be installed in a casing suitable for EPL Gc.

The permissible ambient temperature of +5 °C up to +50 °C must be maintained.

Enough space before the ventilation holes has to be provided.

Adequate ventilation has to be ensured.