

CERTIFICATE OF CONFORMITY

1. **HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT PER US REQUIREMENTS**
2. **Certificate No:** FM16US0070X
3. **Equipment:** Model 4492 CPsingle and CPdouble Condensate Pumps
(Type Reference and Name)
4. **Name of Listing Company:** Bühler Technologies GmbH
5. **Address of Listing Company:** Harkortstrasse 29, DE-40880, Ratingen, Germany
6. The examination and test results are recorded in confidential report number:
3058168 dated 24th August 2016
7. FM Approvals LLC, certifies that the equipment described has been found to comply with the following Approval standards and other documents:
FM Class 3600:2011, FM Class 3611:2004, FM Class 3810:2005
8. If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to specific conditions of use specified in the schedule to this certificate.
9. This certificate relates to the design, examination and testing of the products specified herein. The FM Approvals surveillance audit program has further determined that the manufacturing processes and quality control procedures in place are satisfactory to manufacture the product as examined, tested and Approved.
10. **Equipment Ratings:**
Nonincendive for Class I, Division 2, Groups A, B, C and D, T4 hazardous (classified) locations with an ambient temperature rating of 0°C to +50°C
11. The marking of the equipment shall include:

Certificate issued by:



J. E. Marquedant
Manager, Electrical Systems

24 August 2016

Date

To verify the availability of the Approved product, please refer to www.approvalguide.com

THIS CERTIFICATE MAY ONLY BE REPRODUCED IN ITS ENTIRETY AND WITHOUT CHANGE

FM Approvals LLC, 1151 Boston-Providence Turnpike, Norwood, MA 02062 USA
T: +1 (1) 781 762 4300 F: +1 (1) 781 762 9375 E-mail: information@fmapprovals.com www.fmapprovals.com

SCHEDULE



US Certificate Of Conformity No: FM16US0070X

Class I Division 2, Groups A, B, C, D; T4 Ta = 0°C to +50°C

12. Description of Equipment:

General – The 4492 CPsingle and CPdouble peristaltic pumps are intended to discharge condensate from gas analysis systems in commercial applications. The pumps consist of a pump head and drive motor and operate on the peristaltic principle. The output axle of the gear motor turns a rotor on which two diametrically arranged rollers press a hose against a dimensionally adapted hood and the continuous rotation displaces the contents of the hose in the direction of rotation. The constructive selection of rotor speed and hose diameter also allow minimal or larger amounts to be conveyed, depending on the viscosity of the medium to be pumped.

Construction - The pumps are provided with flying leads. As their physical configuration is not compatible with Class I, Division 2 wiring methods, installation within a suitable final enclosure is required.

Ratings - The 4492 CPsingle and CPdouble peristaltic pumps operate at 115 Vac or 230 Vac, selectable by the installer's wiring configuration. The pumps are rated for use in an ambient temperature range of 0°C to +50°C.

4492abcdefg, CPsingle and CPdouble condensate pumps

NI/I/2/ABCD/T4 0°C < Ta < 50°C

- a = Condensate path; 1 or 2
- b = Building version; 1 or 2
- c = Voltage; 2
- d = Application area; 2
- e = Hose material; 1, 2 or 3
- f = Liters/hour; 0, 1, 2 or 3
- g = Hose connections; 1, 2, 3, 4, 5, 6, 7, 8 or 9

13. Specific Conditions of Use:

1. The equipment shall be installed within a tool-secured enclosure in compliance with the enclosure, mounting, spacing and segregation requirements of the ultimate application. The enclosure shall be rated for a service temperature range of -20°C to 52°C.
2. Wiring shall be terminated within the enclosure using US-Listed terminal(s) rated for the marked supply voltage and load current and a service temperature range of -20°C to 52°C.

14. Test and Assessment Procedure and Conditions:

This Certificate has been issued in accordance with FM Approvals US Certification Requirements.

15. Schedule Drawings

A copy of the technical documentation has been kept by FM Approvals.

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US Certificate Of Conformity No: FM16US0070X

16. Certificate History

Details of the supplements to this certificate are described below:

Date	Description
24 th August 2016	Original Issue.

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ANSI/UL 121201:2019, ANSI/ISA 61010-1:2004
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Class I Division 2, Groups A, B, C, D; T4 Ta = 0°C to +50°C

Certificate issued by:


J.E. Marquedant
VP Manager - Electrical Systems

18 February 2022
Date

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Details of the supplements to this certificate are described below:

Date	Description
24 th August 2016	Original Issue.
18 th February 2022	<u>Supplement 1:</u> Report Reference: RR231317 dated 18 th February 2022. Description of the Change: <ol style="list-style-type: none">1) FM3600 updated to latest edition (2022)2) FM3611 and FM3810 updated to latest edition (2021)3) ANSI/UL 121201:2019 added to standards list4) ANSI/ISA 61010-1:2004 added to standards list

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