



1 **TYPE EXAMINATION CERTIFICATE**

2 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

3 Certificate Number: **CSANe 23ATEX1181X** Issue: **0**

4 Equipment: **Recovery Unit for Flammable Refrigerants**
Model Number: ROREC Pro A3 EU, ROREC Pro A3 AUS, ROREC Pro A3 UK

5 Applicant: **ROTHENBERGER Werkzeuge GmbH**

6 Address: **Industriestr.7**
65779 Kelkheim
Germany

7 This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 CSA Group Netherlands B.V., certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design of Category 3 equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports listed in Section 14.2.

9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule to this certificate, has been assured by compliance with the following documents:

EN IEC 60079-0:2018	EN IEC 60079-7:2015+A1:2018	EN 60079-11:2012
EN IEC 60079-15:2019	EN ISO 80079-36:2016	EN ISO 80079-37:2016

10 If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to Specific Conditions of Use identified in the schedule to this certificate.

11 This Type Examination Certificate relates only to the design of the specified equipment, and not to specific items of equipment subsequently manufactured. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment.

12 The marking of the equipment shall include the following:



II 3G
Ex ec ic nC h IIA T4 Gc
Ta = 0°C - +40°C

Signed:

M Halliwell
Title: Director of Operations



Project Number 80176310

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CSA Group Netherlands B.V. Utrechtseweg 310, Building B42, 6812AR Arnhem, The Netherlands



SCHEDULE

TYPE EXAMINATION CERTIFICATE

CSANe 23ATEX1181X
Issue 0

13 DESCRIPTION OF EQUIPMENT

The ROREC Pro A3 Series Recovery Unit for Flammable Refrigerants are intended to be used for flammable and explosive refrigerant recovery. It consists of a plastic enclosure, a compressor, motor, cooling fan and the condenser, and two metallic plates are fixed on surface of front panel and back panel separately of the Recovery Unit enclosure. The part of plastic enclosure is covered by elastic material. All the bare conductive live parts are in additional IP54 enclosure, and the Recovery Unit enclosure is in accordance with IP20. The motor is with protection type "ec", the compressor is with protection type "h", main board of Recovery Unit is with protection type "ec" and "ic" and LCD board is with protection type "ic". The maximum operation pressure of Recovery Unit is 38.5bar(3.85MPa).

Model Designation of the ROREC Pro A3 Series Recovery Unit for Flammable Refrigerants is as follows:

Model	Item No.	Power Supply
ROREC Pro A3, EU	1500004451	220-240Vac, 50/60Hz
ROREC Pro A3, AUS	1500004452	220-240Vac, 50/60Hz
ROREC Pro A3, UK	1500004453	220-240Vac, 50/60Hz

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Reports and Certificate History

Issue	Date	Report number	Comment
0	11 December 2023	R80176310A	The release of the prime certificate.

15 SPECIFIC CONDITIONS OF USE (denoted by X after the certificate number)

- 15.1 Provision shall be made external to the equipment that ensures that the circuits are limited to overvoltage category II as defined in EN 60664-1.
- 15.2 In the final use, the OFP port shall comply with at least IP20.
- 15.3 Maximum recovery weight of refrigerant shall not exceed 80kg at any time. After the working, the Recovery Unit for Flammable Refrigerants shall be stopped and ensured the refrigerant to be cooling.
- 15.4 Equipment shall not be installed in a location where the external conditions are conducive to the build-up of electrostatic charge on such surfaces. In addition, the equipment shall only be cleaned with a damp cloth. For external material information, please contact the manufacturer.
- 15.5 Equipment shall be operated such that the supply cable is protected from mechanical damage. The cable shall not be subjected to tension or torque.

16 ESSENTIAL HEALTH AND SAFETY REQUIREMENTS OF ANNEX II (EHSRs)

The relevant EHSRs that are not addressed by the standards listed in this certificate have been identified and individually assessed in the reports listed in Section 14.2.

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Issue 0

17 CONDITIONS OF MANUFACTURE

- 17.1 The use of this certificate is subject to the Regulations Applicable to Holders of CSA Group Netherlands B.V. certificates.
- 17.2 Holders of Type Examination Certificates are required to comply with the conformity to type requirements defined in Article 13 of Directive 2014/34/EU.
- 17.3 The ROREC Pro A3 Series Recovery Unit for Flammable Refrigerants shall be subjected to a dielectric strength test with 1500Vac or 2125Vdc for least 60 s without dielectric breakdown occurring between input and the earthing, and between input and the non-metallic surface of the equipment. Alternatively, the test may be carried out at 1800Vac or 2550Vdc for at least 100 ms. Between input and the earthing. The testing base on clause 7.1 of EN IEC 60079-7:2015+A1:2018.
- 17.4 The motor of ROREC Pro A3 Series Recovery Unit for Flammable Refrigerants shall be subjected to a dielectric strength test with 1500Vac or 2125Vdc for least 60 s without dielectric breakdown occurring between input of motor and the earthing. Alternatively, the test may be carried out at 1800Vac or 2550Vdc for at least 100 ms without dielectric breakdown occurring between input of motor and the earthing. The motor of VRDDF Recovery Unit for Flammable Refrigerants shall be subjected to a dielectric strength test with 1620Vac or 2295Vdc for least 60 s without dielectric breakdown occurring between input of motor and the earthing. Alternatively, the test may be carried out at 1945Vac or 2755Vdc for at least 100 ms without dielectric breakdown occurring between input of motor and the earthing. The testing base on clause 7.1 of EN IEC 60079-7:2015+A1:2018.
- 17.5 Only passed the clamping tests with the values reduced to 25% for cable gland, the manufacturer shall provide additional way to ensure that pulling is not transmitted to the terminations.

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Certificate Annexe



Certificate Number: CSANe 23ATEX1181X

Equipment: Recovery Unit for Flammable Refrigerants
Model Number: ROREC Pro A3 EU, ROREC Pro A3 AUS, ROREC Pro A3 UK

Applicant: ROTHENBERGER Werkzeuge GmbH

Issue 0

Drawing	Sheets	Rev.	Date (Stamp)	Title
1200005007-i0	1 of 1	i0	04 Dec 23	Name plate

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