

Translation

TÜV NORD



(1) **Certificate of Conformity**

- (2) Equipment and protective systems intended for use in potentially explosive atmospheres, **Directive 94/9/EC**

(3) **Certificate Number** **TÜV 08 ATEX 553908 X**

(4) for the equipment: Ex-proof cabinets for cooling and heating
Type and serial numbers: See schedule

(5) of the manufacturer: Rubarth Apparate GmbH

(6) Address: Mergenthalerstraße 8
30880 Laatzen

Order number: 8000553908

Date of issue: 2008-12-03

- (7) This equipment or protective system and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.
- (8) The TÜV NORD CERT GmbH, notified body No. 0044 in accordance with Article 9 of the Council Directive of the EC of March 23, 1994 (94/9/EC), certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive. The examination and test results are recorded in the confidential report No. 08 204 553908.
- (9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
- | | | |
|-------------------|------------------|------------------|
| EN 60 079-14:2003 | EN 13 463-1:2001 | EN 13 463-5:2003 |
| EN 13 463-6:2005 | EN 1127-1: 2007 | |
- (10) If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.
- (11) This certificate of conformity relates only to the design, examination and tests of the specified equipment in accordance to the Directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment. These are not covered by this certificate.
- (12) The marking of the equipment or protective system must include the following:

II 2 G Ex b c IIB T3 resp. T4 (see schedule)

TÜV NORD CERT GmbH, Langemarckstraße 20, 45141 Essen, accredited by the central office of the countries for safety engineering (ZLS), Ident. Nr. 0044, legal successor of the TÜV NORD CERT GmbH & Co. KG Ident. Nr. 0032

The head of the certification body

Schwedt

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Excerpts or changes shall be allowed by the TÜV NORD CERT GmbH

(13) **SCHEDULE**

(14) **Certificate of Conformity No. TÜV 07 ATEX 553908 X**

(15) Description of equipment

The Ex-proof cabinets for cooling and heating with the serial nos. listed below are used for short-term tempering or for long-term storing of substances.

The attribution of the explosion hazardous area, the apparatus group and the temperature class to the explosion protected apparatus exists as follows:

Type	Serial no.	Temperature class	Explosion hazardous area for categorie 2 apparatus permissible for	apparatus group
2401	0706/12	T4	Test room and external space	IIB
2501	0612/08.1	T3		
2501	0612/08.2			
2501	0804/06.1			
2501	0804/06.2			

Electrical data

Type	Serial no.	Voltage	Current	Power
2401	0706/12	230/400 V, 50 Hz	1.7 A	1.2 kW
2501	0612/08.1		2.0 A	1.3 kW
2501	0612/08.2		12.0 A	4.2 kW
2501	0804/06.1		2.0 A	1.3 kW
2501	0804/06.2		12.0 A	4.2 kW

The temperature ranges for the test room are defined as follows:

Type	Serial no.	Functional temperature range	max. temperature
2401	0706/12	0 °C...+35 °C	+50 °C
2501	0612/08.1	+10 °C...+37 °C	+50 °C
2501	0612/08.2	+10 °C...+80 °C	+90 °C
2501	0804/06.1	+10 °C...+37 °C	+50 °C
2501	0804/06.2	+10 °C...+80 °C	+90 °C

(16) Test documents are listed in the test report No. 08 204 553908.

Schedule Certificate of Conformity No. TÜV 07 ATEX 553908 X

(17) Special conditions for safe use

1. It has to be ensured, that inside of the apparatus as result of the media placed in storage only an explosion hazardous area of zone 1 is expected.
2. It has to be ensured, that after opening the door an ignition of the possibly escaping explosion hazardous atmosphere cannot occur.
3. The connection for earthing has to be connected with the potential equalization in the explosion hazardous area. The valid requirements for the erector have to be observed.
4. For the electrical connection, cables have to be used, which can withstand the expected mechanical, chemical and thermal exposures. The valid requirements for the erector have to be observed.
5. A regular recurrent inspection of the oil level in the compressor aggregate has to be carried out; only the permissible oil grade is allowed to be used (Observe manual of the manufacturer).
6. A regular recurrent inspection of the v-belts tension has to be carried out (Observe manual of the manufacturer).
7. A regular recurrent inspection of the function of the safety system for the switching off at overpressure in the cooling system has to be carried out (Observe manual of the manufacturer). At a faulty safety system, the apparatus is not allowed to be operated.

(18) Essential Health and Safety Requirements

no additional ones