EU TYPE-EXAMINATION CERTIFICATE

1. **EU type-examination Certificate (Module B)**

2. **Equipment or Protective System intended for use in potentially explosive atmospheres (Directive 2014/34/EU)**

3. **EU type examination certificate Nr** **ITS07ATEX15743X R.0**

4. **Product:** Air Conditioning Compressor, 7242 Series

5. **Manufacturer:** North Sea Ventilation & Air Conditioning Ltd **Applicant:** North Sea Ventilation & Air Conditioning Ltd

6. **Address:** 105a Malmo Road, Hull, HU7 0YF, UK **Address:** 105a Malmo Road, Hull, HU7 0YF, UK

7. This product and any acceptable variation thereto are specified in the schedule to this certificate and therein referred to.

8. INTERTEK ITALIA S.p.A., Notified Body n° 2575 in accordance with article 17 of the Directive 2014/34/EU of the European Parliament and Council of the 26 February 2014, certifies that the 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 system intended for use in potentially explosive atmosphere, given in Annex II of the Directive.

   The examination and tests results are recorded in confidential technical evaluation Intertek Report Nr. 06021406 Issue 2 dated December 2007, 06021406 Issue 3 dated February 2015 and 104397660CHE-001 dated 27th February 2024.

9. Compliance with the Essential Health and Safety Requirements has been assured by compliance with EN IEC 60079-0:2018, EN 60079-2:2014 and EN 60079-18:2015+A1:2017 except in respect of those requirements referred to at item 16 of the Schedule.

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

11. This EU-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

12. The marking of the product shall include the following:

    II 2 G Ex mb pxb IIB/IIC* T3/T4* Gb
    -40°C ≤ Ta ≤ +55°C
    * see Schedule for details.

Certificate issue date

1st March 2024

M Newman
Certification Officer
Intertek Italia S.p.A. (NB 2575)

PDR N° 277B

Membro degli Accordi di Mutuo Riconoscimento EA, IAF e ILAC

Signatory of EA, IAF and ILAC Mutual Recognition Agreements

This certificate has been issued by Intertek Italia S.p.A. NB 2575 on transfer from Intertek Testing & Certification Ltd. (NB 0359) using the same issued original certificate number.

This Certificate is for the exclusive use of Intertek's client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Certificate. Only the Client is authorized to permit copying or distribution of this Certificate and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek.

SCHEDULE

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13. **DESCRIPTION OF THE EQUIPMENT OR PROTECTIVE SYSTEM**

The North Sea Ventilation Air Conditioning Compressor, 7242 Series, comprises a Hermetic or Semi-Hermetic compressor with rating up to 85kW protected by Static Pressurization and Encapsulation.

Rated Voltage: Up to 690V 50/60 Hz 3 Phase

Rated Power: Up to 85kW

The compressor housing, when charged with refrigerant and the encapsulated terminal compartment are rated IP66.

Marking of Group IIB or IIC or temperature class T4 or T3 may be made to match the specification of the final air conditioning system.

CE Marking shall be accompanied by the identification number of the Notified Body responsible for surveillance of production.

SCHEDULE

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14. **DRAWINGS AND DOCUMENTS**

TITLE	DOCUMENT Nr	LEVEL	DATE
*Typical Hazardous Area System P&ID (illustrative Overview)	STD-EX01-003 Sht1	01	01.11.22
*Typical Hazardous Area System P&ID	STD-EX01-003 Sht2	01	01.11.22
*System Configuration Overview General Arrangement	STD-EX01-001	01	01.11.22
*Air Handling Unit / Section General Arrangement	STD-EX01-AHU01-001	01	01.11.22
*Condensing Unit / Section General Arrangement	STD-EX01-CU01-001	01	01.11.22
*Air Cooled Condenser General Arrangement	STD-EX01-ACC01-001	01	01.11.22
*Compressor Set (Semi-Hermetic) General Arrangement	STD-EX01-CMP02-001	01	01.11.22
*Compressor Set (Full-Hermetic) General Arrangement	STD-EX01-CMP01-001	01	01.11.22
*Electrical Controls Block Diagram	STD-EX01-200	01	01.11.22
*Schematic Controls Block Diagram	STD-EX01-201	01	04.01.23
*Certified Compressor Nameplate Drawing	STD-EX01-CMP01-040	02	27.02.24
*Hermetic Compressor Terminal Box Encapsulation Arrangement	STD-EX01-CMP01-005	01	01.11.22
*SEMI-Hermetic Compressor Terminal Box Encapsulation Arrangement	STD-EX01-CMP02-005	01	01.11.22
*Ex Technical File Hazardous Area Air Conditioning System	STD-EX01-853	01	11/1/23

Note: An * is included before the title of documents that are new or revised.
Copies of the above listed documents are kept at Intertek Italia S.p.A. archive.

SCHEDULE

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15. **SPECIFIC CONDITIONS OF USE**

- The Compressor must be installed with power controlled by the safety controls provided by North Sea Ventilation or in accordance with the specification for such controls contained in instructions provided by North Sea Ventilation.
- Where intrinsically safe or other hazardous area certified controls are used, they have not been assessed under this certification, and this certification is not to be used as evidence of the compliance of the controls with appropriate standards.
- The refrigerant circuit shall be filled only when the surrounding area is known to be hazard free and in accordance with manufacturer's filling procedure.
- The refrigerant shall be inert and of a type specified in manufacturer's instructions.
- The power supply cable to the compressor shall be installed so that the cable is secured against pulling or twisting.

16. **ESSENTIAL HEALTH AND SAFETY REQUIREMENTS**

The relevant Essential Health and Safety Requirements have been identified and assessed in Intertek Report Nr. 104397660CHE-001 dated 27th February 2024.

17. **ROUTINE (FACTORY) TESTS**

- The manufacturer shall verify correct operation of the pressurization, including operation of the high and low pressure cut-outs.

18. **DETAIL OF CERTIFICATE CHANGES**

R.0 (1st March 2024):

- Initial release by Intertek Italia S.p.A. NB 2575 based on the assessment performed on February 2024 and on the certificate legal ownership transferred from Intertek Testing & Certification Ltd. (NB 0359); the same issued original certificate number is used.
- Change of Company name and address from "North Sea Ventilation Ltd, Charrington Park, West Carr Lane, Sutton Fields Industrial Estate, Hull, HU7 0BW, UK" to "North Sea Ventilation & Air Conditioning LTD, 105a Malmo Road, Hull, HU7 0YF, UK"
- Update to latest harmonized standards.
- Update to controlled document numbering references.
- Update to label drawing to address coding update and new company name and address.