UK-TYPE EXAMINATION
CERTIFICATE

Product or Protective Systems Intended for Use in Potentially Explosive Atmospheres

UKSI 2016:1107 (as amended) – Schedule 3A, Part 1

1. **UK-Type Examination Certificate Number:** **ITS22UKEX0510X** **Issue 00**

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

3. **Manufacturer:** North Sea Ventilation & Air Conditioning Ltd

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

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

6. Intertek Testing and Certification Limited, Approved Body number 0359, in accordance with Regulation 42 of the Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016, UKSI 2016:1107 (as amended), certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Schedule 1 of the Regulations.

   The examination and test results are recorded in the confidential report 06021406 Issue 2 dated December 2007, 06021406 Issue 3 dated February 2015 and 104397660CHE-001 dated 27th February 2024.

7. 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 within item 14 of the Schedule.

8. If the sign "X" is placed after the certificate number, it indicates that the product is subject to the special conditions of use specified in the Schedule to this certificate.

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

10. 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.

Certification Officer: M Newman **Date:** 1st March 2024

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Intertek Testing & Certification Limited, Cleeve Road, Leatherhead, Surrey, KT22 7SA
Registered No 3272281 Registered Office: Academy Place, 1-9 Brook Street, Brentwood, Essex, CM14 5NQ.

SCHEDULE:

UK-Type Examination Certificate Number: ITS22UKEX0510X Issue 00

11. Description of Product 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.

12. Report Number

Intertek Report: 104397660CHE-001 dated 27th February 2024.

13. Special Conditions of Certification

(a). Special 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.

(b). Conditions of Manufacture

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

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14. Essential Health and Safety Requirements (EHSRs)

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

15. Drawings and Documents

Title:	Drawing No.:	Rev. 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

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