Certificate No: LR26140695TA
Issue Date: 15/04/2026
Expiry Date: 14/04/2031

Type Approval Certificate

This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

Manufacturer	**Novenco Hi-Pres Air Handling Equipment (Wuxi) Co., Ltd.**
Address	Workshop 2, No. 175 Ximei Road, Hongshan Street, Wuxi New District, Wuxi City, Jiangsu, China
Type	Ventilation Systems
Description	Non-sparking Axial Flow Fan
Trade Name	HACW 350-2000, HACP 500-1600, HACQ 400-2000, HAZW 500-2000, HAZQ 500-2000
Application	Non-sparking fans for hazardous areas in marine installations classed or intended for classification with Lloyd's Register.
Specified Standard	Lloyd's Register Rules and Regulations for the Classification of Ships (Part 5, Chapter 15, 1.9), July 2025, Non-sparking fans for hazardous areas.
Ratings	For features and accessories see catalogue and drawings.
Other Conditions	The manufacturer's installation and service instructions are to be observed. For Ex-proof fans the detail "A" of design drawings with minimum specified tip clearance and Brass lining at the fan casing in the way of impeller is to be applied. Protection screens with not more than 13 mm square mesh are to be fitted at the ventilation openings.

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Thorsten Wolff

Electrical & Control - Senior Specialist to
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Safe type motors are to be certified for the appropriate application.

The Type Approval does not eliminate the need for normal inspection and survey procedures required by the Rules and Regulations.

If the specified standards are amended during the validity of this certificate, the product is to be re- approved prior to it being supplied to vessels to which the amended standards apply.

This certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register EMEA of any modification or changes to the equipment in order to obtain a valid Certificate.

The Design Appraisal Document TSO/25-052221/TW and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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