Certificate No: LR26149991TA
Issue Date: 08/04/2026
Expiry Date: 07/04/2031

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	**Bitzer Kühlmaschinenbau Schkeuditz GmbH**
Address	Industriestr.48, Schkeuditz, 04435, Germany
Type	Refrigeration Compressors
Description	Semi-hermetic reciprocating compressor for CO2 refrigerants
Trade Name	CME2, CME4, CME3M, CM4M, CME5M, CME7M, CKHE5, CKHE3M, CKHE4M, CKHE5M, CKHE7M
Application	As compressors intended for CO2 refrigeration systems 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, July 2025 DIN EN 12693, UL60335-2, 6th Edition
Ratings	Max. power depending on type up to 154 kW Shaft speed at 50 Hz: 1450 rpm Depending on type for transcritical or subcritical R744 applications Further features and additional options as per Application Manual.
Other Conditions	Electrical control systems by the end user.

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The manufacturer's installation and service instructions are to be observed.

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/25-033877 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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