



U. S. Department of Homeland Security
United States Coast Guard
Certificate of Approval

Coast Guard Approval Number: 162.161/1/0

Expires: 18 October 2028

ENGINEERED HALOCARBON FIRE EXTINGUISHING SYSTEM

KIDDE-FENWAL INC.
400 MAIN STREET
ASHLAND MA 01721

HFC-227 ECS Total Flooding Clean Agent System.

ECS series systems for the protection of machinery spaces, cargo pump rooms, and other enclosed spaces with Class B and C hazards. HFC-227ea agent is super-pressurized with nitrogen as a propellant. Complies with IMO MSC/Circ.848 as amended by MSC.1/Circ. 1267. Not acceptable for cargo hold protection.

Identifying Data: Marine Design, Installation, Operation, and Maintenance Manual P/N 06-236225-001 Rev BA. Flow Calculation Software P/N 06-236272-001 Rev AD. Kidde Fenwal engineering document "Document List for 162.161-1-0" Rev AD.

Follow-up Program: UL. File EX4674 Project 4789259964

Approval valid only for products from the above location.

Supersedes previous approval dated October 15, 2021; updated list of addendums.

*** End ***

THIS IS TO CERTIFY THAT the above named manufacturer has submitted to the undersigned satisfactory evidence that the item specified herein complies with the applicable laws and regulations as outlined on the reverse side of this Certificate, and approval is hereby given. This approval shall be in effect until the expiration date hereon unless sooner canceled or suspended by proper authority.



GIVEN UNDER MY HAND THIS 18th DAY OF
OCTOBER 2023, AT WASHINGTON D.C.

C. J. DIAZ-COLON, LCDR
Acting Chief, Lifesaving and Fire Safety Division
BY DIRECTION OF THE COMMANDANT

TERMS: The approval of the item described on the face of the Certificate has been based upon the submittal of satisfactory evidence that the item complies with the applicable provisions of the navigation and shipping laws and the applicable regulations in Title 33 and/or Title 46 of the Code of Federal Regulations. The approval is subject to any conditions noted on this Certificate and in the applicable laws and regulations governing the use of the item on vessels subject to Coast Guard inspection or on other vessels and boats.

Consideration will be given to an extension of this approval provided application is made 3 months prior to the expiration date of this Certificate.

The approval holder is responsible for making sure that the required inspections or tests of materials or devices covered by this approval are carried out during production as prescribed in the applicable regulations.

The approval of the item covered by this certificate is valid only so long as the item is manufactured in conformance with the details of the approved drawings, specifications, or other data referred to. No modification in the approved design, construction, or materials is to be adopted until the modification has been presented for consideration by the Commandant and confirmation received that the proposed alteration is acceptable.

NOTICE: Where a manufacturer of safety-at-sea equipment is offering for sale to the maritime industry, directly or indirectly, equipment represented to be approved, which fails to conform with either the design details or material specifications, or both, as approved by the Coast Guard, immediate action may be taken to invoke the various penalties and sanctions provided by law including prosecution under 46 U.S.C. 3318, which provides:

"A person that knowingly manufactures, sells, offers for sale, or possesses with intent to sell, any equipment subject to this part (*Part B. of Subtitle II of Title 46 U.S.C.*) and the equipment is so defective as to be insufficient to accomplish the purpose for which it is intended, shall be fined not more than \$10,000, imprisoned for not more than 5 years or both."