



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

Coast Guard Approval Number: 162.060/1/4

Expires: 21 October 2026

BALLAST WATER MANAGEMENT SYSTEM  
Filtration/Ultraviolet

Optimarin AS  
Sjoveien 34  
4315 Sandnes NORWAY

Name of BWMS: Optimarin Ballast System (OBS)

Capacities: 72-3,000 m3/h (intake), 167-3,000 m3/h (discharge)

This is to certify that the above listed BWMS with the listed treatment capacities has been satisfactorily examined and tested by Independent Lab DNV in accordance with the requirements contained in 46 CFR 162.060. The system shall be installed and operated in accordance with the applicable Operation, Maintenance, and Safety Manual: Optimarin OBS OMSM, Rev. 7, dated September 21, 2021 for models BK3, BK3 Ex, BK4, FX2 or FX2 Ex.

Operational Limitations:

See Appendix

The OBS Ex models meet the requirements of 46 CFR 111.105 and may be installed in hazardous locations to which they are certified on U.S. flag vessels. The control panel, electric actuator power distribution panel, actuator control panel, interlock panel, Ex interlock panel, Ex interface panel, filter control cabinet, back flush cabinet, fresh water panel, Ex sensor box, and UV power cabinets must remain outside of hazardous locations. The OBS Ex models may be installed in hazardous locations to which they are certified on foreign flag vessels subject to approval of the foreign administration. The non-Ex OBS models may be installed on U.S. flag vessels outside of hazardous locations.

The BWMS must be marked in accordance with 46 CFR 162.060-22.

A copy of this Type Approval Certificate shall be carried on board a vessel fitted with the ballast water management system at all times.

This certificate supersedes Approval number 162.060/1/3 dated October 21, 2021; update includes alternate filter.

\*\*\* 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 20<sup>th</sup> DAY OF  
APRIL 2022, AT WASHINGTON D.C.



S. M. PETERSON  
Chief, Engineering 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."

APPENDIX

U. S. Coast Guard Approval Number: 162.060/1/4

Expires: October 21, 2026

OPERATIONAL LIMITATIONS

Salinity: Not Applicable

Water Temperature: -2 – 37° C

Hold Time: >2 hours

UV-Intensity: >1100 W/m<sup>2</sup> (at 100% TRC) and >400 W/m<sup>2</sup> (at 24% TRC)

\*\*\* END \*\*\*

(1 of 1)