



# U. S. Department of Homeland Security

## United States Coast Guard

### Certificate of Approval

Coast Guard Approval Number: 162.060/17/6

Expires: 15 April 2029

BALLAST WATER MANAGEMENT SYSTEM  
Filtration/Ultraviolet

DESMI Ocean Guard A/S  
Tagholm 1  
DK - 9400 Nørresundby DENMARK

Name of BWMS: CompactClean

Capacities: 52-2,262 m3/h

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 CompactClean Operation, Maintenance, and Safety Manual (OMSM), Rev. E, Version 5, dated December 15, 2025.

Installation Limits: See Appendix

Operational Limitations:

Salinity: No Limitations (USCG FW mode), >1 PSU (USCG mode)  
Water Temperature: No Limitations  
Hold Time: >2 hours (USCG FW mode), >24 hours (USCG mode)  
UV-Intensity: See Appendix

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.

Vessel owners/operators are expected to consult with the manufacturer to ensure the BWMS's operational limitations and treatment flow rates are acceptable for the water frequented by their vessels.

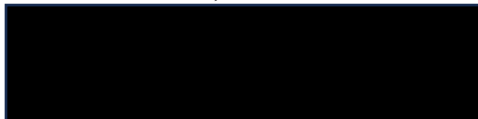
This certificate supersedes Approval number 162.060/17/5 dated December 2, 2025; update approves new flow control curve for a new compliance mode for marine and brackish water.

\*\*\* 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 18<sup>th</sup> DAY OF  
DECEMBER 2025, AT WASHINGTON D.C.



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."

INSTALLATION LIMITATIONS

In addition to meeting 46 CFR 162.060, which approves the operation of this BWMS in U.S. waters, this type approval certificate also allows for the installation and operation of this BWMS on the following vessels and/or shipboard locations:

<b>BWMS Model</b>	<b>U.S. Flag Installation</b>	<b>Hazardous Location Installation (U.S. Flag)<sup>1, 3</sup></b>	<b>Hazardous Location Installation (Foreign Flag)<sup>2, 3</sup></b>
CompactClean	X		
CompactClean Ex	X	X	X

- 1.) Models have been verified to meet the requirements of 46 CFR 111.105
- 2.) Subject to approval of the foreign administration
- 3.) The main panel and the frequency converter must remain outside of hazardous locations. The Ex model is acceptable for use in hazardous areas defined as Zone 2, gas group IIB, temperature class T3, ambient temperature range 0 °C to +50 °C.

Note: "X" indicates approval for installation.

OPERATIONAL LIMITATIONS

UVI limits:

<b>Compliance mode</b>	<b>UVI limit for dimming of the UV lamp power [W/m<sup>2</sup>]</b>	<b>UVI limit for operating at TRC of UV unit<sup>1</sup> [W/m<sup>2</sup>]</b>	<b>Lowest UVI limit for which BWMS is type approved<sup>2</sup> [W/m<sup>2</sup>]</b>
USCG mode	1250	1250	227
USCG FW mode	1000	880	227

- 1.) UVI limit corresponds to UVT of 65% in USCG FW Mode.
- 2.) Lowest UVI limit corresponds to 40% UVT.

Maximum flow rate (m<sup>3</sup>/h):

<b>UV unit model</b>	<b>USCG mode</b>	<b>USCG FW mode</b>
V10024	52	40
V15044	111	85
V15064	208	160
V20066	325	250
V20086	442	340
V25126	650	500
V30186	1131	870
V35246	1534	1180
V40366	2262	1740

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