

CompactClean, IECEx, Low Skid Mounted

By choosing of a CompactClean ballast water management solution you will experience simplicity in the daily operation of your vessel. One global full flow mode worldwide – as simple as that! The solution has superior UV power to meet the strict requirements for ballast operation in US-waters. This means risk of mixing IMO and USCG treated ballast water will be eliminated.

One global operation mode

The selection of either IMO or US mode can be very complicated, if the operator does not know at the time of uptake, where the ballast water is going to be discharged. With the CompactClean system you will not need a special mode to comply with USCG requirements. You just have one global mode for worldwide operation. The advantage of using a single operation mode globally is that it removes the need to know the de-ballast location

at the time of ballast uptake. This means the ship can never get into a situation where the ballast water on board is compliant for discharge in one location, but not in another.

The CompactClean has been certified to treat ballast water with UV transmission at record-breaking 40% in its global mode. Most competing systems will go out of compliance as early as 70% UV-T in USCG waters.

IECEx Approved

SAFETY ON BOARD ANY SHIP
- INCLUDING OIL AND CHEMICAL TANKERS

The CompactClean BWMS is available in an ATEX and IECEx certified version, making installation in hazardous zones on board oil, chemical or gas tankers possible. The EX certification notation is:



Low Skid Mounted Delivery

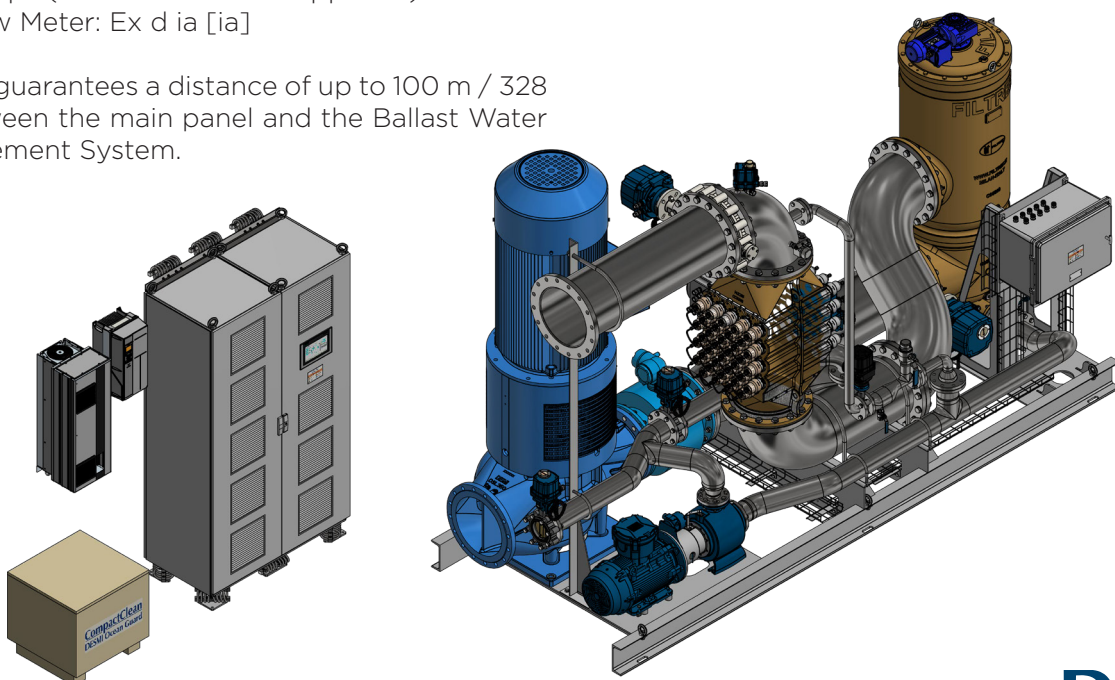
The low skid mounted configuration has been optimized for deckhouse installation or other areas where height is the primary concern. The flatter design has been made to avoid a tall structure on deck. This flat design has been possible by s-folding the piping between the filter and UV-unit. This will of course add more piping and require a larger footprint. The low skid mounted IECEx system can be delivered without the house as a stand-alone low skid.

Ex II 2G Ex IIB T4 Gb

And based on the following components:

- Uv sensor: Ex ia
- Temperature: Ex ia
- Pressure: Ex ia
- Water level: Ex ia
- Junction Box: Ex d
- Valve: Valves: Ex d
- UV lamp assembly: Ex d
- Pumps (mechanical ATEX approval)
- Flow Meter: Ex d ia [ia]

DESMI guarantees a distance of up to 100 m / 328 ft. between the main panel and the Ballast Water Management System.



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DESMI

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Description	CC340	CC500	CC750	CC1000	CC1500
Global Mode Max Flow [m ³ /h] - Ballast	340	500	770	1040	1500
Global Mode Max Flow [m ³ /h] - De-Ballast	340	500	870	1180	1740
Minimum Flow Ballast [m ³ /h] Filter	45	50	65	95	126
Minimum Flow De-Ballast [m ³ /h] UV unit	9	13	19	26	38
Min Power required UV-T > 100% UV lamps dim to 50% [kW]	24,0	36,0	54,0	72,0	108,0
Avg. Power required UV-T = 85% UV lamps dim to 76% [kW]	36,5	54,7	82,1	109,4	164,2
Install Power required UV-T < 65% All components running [kW]	67,0	93,0	131,0	169,0	245,0
Maximum Current At 440V [A]	106,0	126,0	177,0	229,0	332,0
Main Cabinet L x W x H [mm] Weight [kg]	606 x 594 x 1795 mm 272 kg	606 x 679 x 2171 mm 349 kg	1206 x 579 x 1771 mm 498 kg	1203 x 700 x 2208 mm 677 kg	1203 x 700 x 2208 mm 788 kg
Skid L x W x H [mm] Weight [kg]	2358 x 1410 x 1909 mm 2408 kg	2814 x 1478 x 2814 mm 3081 kg	3330 x 1918 x 2315 mm 4564 kg	4663 x 1953 x 2678 mm 5052 kg	4703 x 1684 x 2954 mm 6621 kg