CompactClean, IECEx, Loose Components

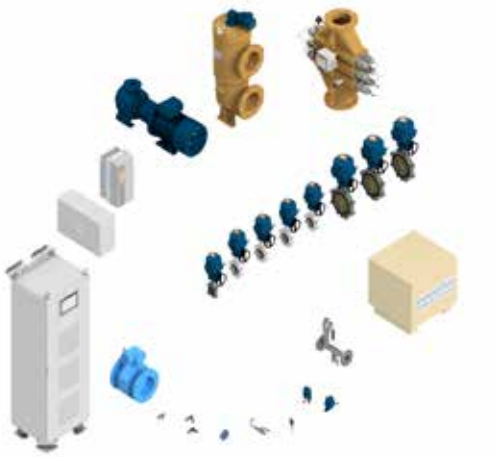
By choosing of a CompactClean ballast water management solution you will experience simplicity in the daily operation of your vessel. One global full flow mode worldwide – as simple as that! The solution has superior UV power to meet the strict requirements for ballast operation in US-waters. This means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

Loose Component Delivery
The loose component configuration provides maximum flexibility in terms of deployment. This is the typical choice for retrofit projects as all components freely can be placed where there is enough room for them. This configuration contains all components excepts electrical wiring and pipe spools, which will be customized for the vessel.



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:

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.

Description	CC250	CC340	CC500	CC750	CC1000	CC1500
Global Mode Max Flow [m^3/h] - Ballast	250	340	500	770	1040	1500
Global Mode Max Flow [m^3/h] - De-Ballast	250	340	500	870	1180	1740
Minimum Flow Ballast [m^3/h] Filter	35	45	50	65	95	126
Minimum Flow De-Ballast [m^3/h] UV unit	9	9	13	19	26	38
Min Power required UV-T > 100% UV lamps dim to 50% [kW]	18,0	24,0	36,0	54,0	72,0	108,0
Avg. Power required UV-T = 85% UV lamps dim to 76% [kW]	27,4	36,5	54,7	82,1	109,4	164,2
Install Power required UV-T < 65% All components running [kW]	54,0	67,0	93,0	131,0	169,0	245,0
Maximum Current At 440V [A]	73,0	106,0	126,0	177,0	229,0	332,0
Main Cabinet L x W x H [mm] Weight [kg]	606 x 594 x 1795mm 262 kg	606 x 594 x 1795mm 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
UV Unit H x W x D Dry Weight [kg]	776 x 828 x 438 mm 150 kg	902 x 828 x 446 mm 190 kg	852 x 828 x 516 mm 222 kg	986 x 838 x 541 mm 331 kg	1032 x 838 x 628 mm 390 kg	1102 x 844 x 722 mm 580 kg
Filter H x W x L [mm] Weight [kg]	1150 x 500 x 500 mm 288 kg	1200 x 500 x 500 mm 322 kg	1300 x 650 x 650 mm 527 kg	1550 x 700 x 700 mm 757 kg	1750 x 800 x 800 mm 900 kg	2240 x 850 x 850 mm 1020 kg
Pump L x W x H [mm] Weight [kg] Stripping flow	S80 1014 x 356 x 529 mm 280 kg 75m3/hr @20mH	S80 1014 x 356 x 529 mm 280 kg 75m3/hr @20mH	S80 1014 x 356 x 529 mm 280 kg 75m3/hr @20mH	S80 1014 x 356 x 529 mm 280 kg 75m3/hr @20mH	S100 1090 x 356 x 549 mm 290 kg 75m3/hr @20mH	S100 1090 x 356 x 549 mm 290 kg 75m3/hr @20mH
VFD H x W x D [mm] Weight [kg]	481 x 242 x 260 mm 23 kg	482 x 242 x 260 mm 23 kg	483 x 242 x 260 mm 23 kg	484 x 242 x 260 mm 23 kg	485 x 242 x 260 mm 23 kg	486 x 242 x 260 mm 23 kg
External Control Box H x L x W [mm] Weight [kg]	503 x 676 x 422 mm 100 kg	503 x 676 x 422 mm 100 kg	503 x 676 x 422 mm 100 kg	503 x 676 x 422 mm 100 kg	503 x 676 x 422 mm 100 kg	503 x 676 x 422 mm 100 kg