



DESMI Service Packages

For Ballast Water Management Systems

PROVEN TECHNOLOGY

DESMI



USCG (VGP 2013) & IMO MEPC.279(70)

Annual system inspection and checks according to makers
preventive and corrective maintenance requirements

Verification of measuring equipment.

Adequate crew training.

*All supported by DESMI to ensure many years of
trouble-free operation.*

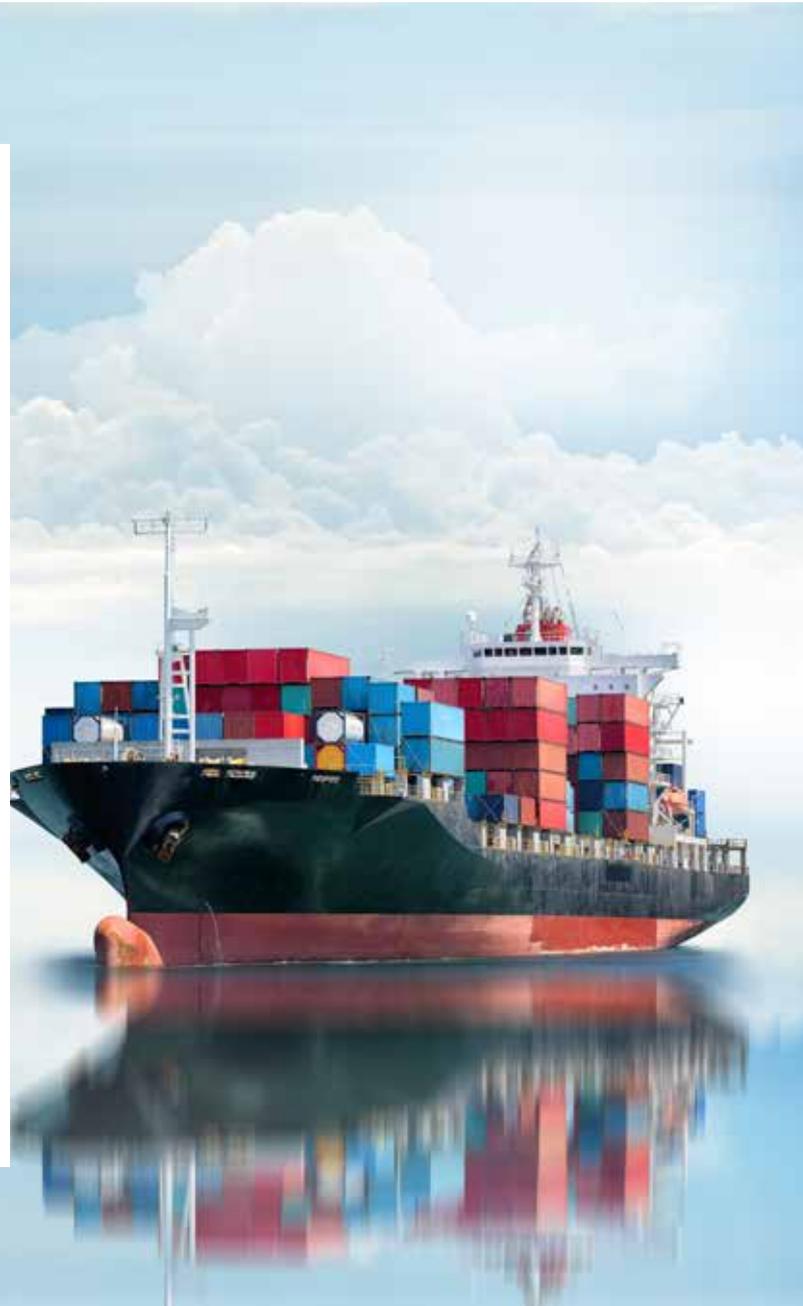


Our experienced team of service engineers are ready to assist in keeping your BWMS maintained and operational at all time.

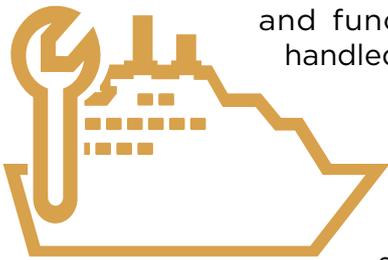
DESMI is a leading provider of Ballast Water Management Solutions. Our experienced team of service engineers are ready to assist in keeping your ballast water management system maintained and operational at all time.

Through DESMI service packages, we support your ballast water management system and crew to keep the system running flawlessly. Service and training offerings shall be planned individually or alternatively as a package depending on your needs and requirements. Individual planning provides an easy and flexible solution whereas a service package gives you ease-of-mind for trouble-free operation and planning.

When entering a contract for a service package DESMI will keep track of your service schedule and assist in coordinating the next service to occur in the most suitable port to keep cost to a minimum and all time fully functional BWMS.



2.5- and 5-Year Services



Planned maintenance, performance and functioning checks all handled by our experienced team of service engineers in any ports worldwide for your docking periods and 5-year special survey.

The 2.5- and 5-years services combines inspection, planned maintenance, performance and functioning checks, and cleaning.

2.5-year service

The 2.5-year service includes inspection of back flush pump, sensors/transmitters (pressure, temperature, flow, UV, and water level), filter basket, electrical actuated valves, electrical cabinets, and wire/cable connections. UV sensor housing, filter-basket and -housing as well as filters for electrical cabinets are all cleaned to ensure highest efficiency and performance of your system.

DESMI has included the components that according to the planned maintenance schedule requires replacement. During the 2.5-year the UV-I sensor will be replaced, and operational checks will be conducted of all operation modes followed by a performance and alarm log analysis.

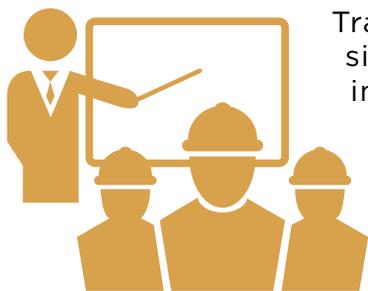
The result is a survey report documenting the actual condition of your CompactClean BWMS, spare part stock review on-board and DESMI's recommendation for corrective actions and operational optimization.

5-year service

The 5-year service includes (in addition to the tasks from the 2.5-year service) replacement of UV-I sensor, pressure sensors, temperature transmitter, and water level sensors. The 2.5- and 5-years services are delivered by DESMI in any port worldwide and ensure trouble-free ballast operation in a reliable and cost-effective way.

Just like the 2.5-year service you will get to know the condition of your system, spare part stock review on-board and DESMI's recommendation for corrective actions and operational optimization all to ensure that you system is always performing 100%. This to keep the environmental impact to a minimum.

Crew Training



Training of crew on-site, virtually and/or in a training center ensures that your crew is confident in operating principles, processes and up to date on regulatory developments.

Crew training is a requirement from regulatory bodies. It ensures that your crew is confident in operating the CompactClean BWMS and as well updated on regulatory developments. All service engineers are continuously updated in the newest developments on our systems to ensure that they can carry out proper training, however, always backed by our specialist teams.

Training on-board must be planned separately or combined with a service visit. More extensive training

course is available in DESMI's fully operational training center and combines hands-on-experience with classroom training for crew and shore personnel.

To prepare new crew members and ensure continued awareness of the system operation and maintenance requirements your crew can benefit from DESMI's virtual training offerings.

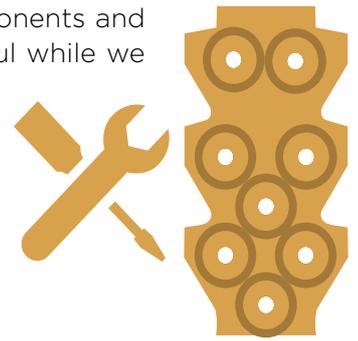
Computer Based Training (CBT) is an offline software that provides a detailed run-through of the system, simulation of operations and a questionnaire to test your skills. For easy access to system information and guides we advise all crew members to download and install the DESMI CompactClean service app which combines augmented reality views and operational, maintenance and safety manuals. It further provides an easy access to specialized component guides and service FAQ.

Overhaul of your UV-unit in an easy, reliable, and cost-effective way to ensure superior performance carried out by experienced teams of service engineers.

DESMI is proud of its superior UV performance and extended lifetime of UV lamps. The lamps, however, need replacement due to degradation in performance over time. This may seem like an easy task – and it is! But why not combine your 2.5- or 5-year service with a UV-unit overhaul by an experienced service engineer

who will bring the components and tools needed for overhaul while we are there.

The UV-unit overhaul includes replacement of UV lamps, quartz sleeves and sealings. By entering a service package, you will get cost-effective service.



Internet Up-Link Installation

Installation of internet up-link module for remote service assistance and software updates.

By installing an internet up-link module for your CompactClean BWMS you will enable remote services delivered by DESMIs experienced service team at any time.

Our experts are ready to assist the crew remotely in fault finding, operational issues, and maintenance tasks which reduces the operational costs, down time, and keeps the number of required service engineers visits to a minimum.

The internet up-link will allow for updating of BWMS software remotely which makes this service available anytime globally whenever a reliable internet connection is available.



DESMI is using SECOMEA gate manager as link-module – recognized as one of the safest system available in the market.

System Health Check

Performance and function checks handled by our experienced team of service engineers in dedicated ports worldwide.

The system health check is a combination of various service tasks, all to ensure that your system is operational and compliant.

The survey includes inspection of back flush pump, sensors/transmitters (pressure, temperature, flow, UV, and water level), filter basket, electrical actuated valves, and wire/cable connections.

Further, the survey includes cleaning of operational critical components i.e., UV sensor housing as well as filters for electrical cabinets. Before concluding

the survey, a function check of all operation modes followed by a performance and alarm log analysis is conducted.

The survey results in a report documenting the actual condition of your CompactClean BWMS, spare part stock review on-board and DESMIs recommendation for corrective actions to ensure the system is operating with highest efficiency and performance. The report can as well be used as evidence for port state control.



An Easy & Flexible Solution

System Health Check

2.5-Year Service

(Expenses can be included in docking budget)

5-Year Service

(Expenses can be included in docking budget)

UV Unit Overhaul

Internet Up-Link Installation

Remote Service Assistance

Software Update (Remote)

(Does not include upgrade to dual-mode functionality)

Software Update (Onboard)

(Does not include upgrade to dual-mode functionality)

Dual-Mode Software Upgrade (Onboard)

Crew Training (Remote)

Crew Training (Onboard)

Crew Training (Training Center)

(Minimum 4 persons)

DESMI CompactClean Service APP

(available for Android and IOS in Google Play and App Store)



Ease of Mind for Trouble-free Operation and Planning			
	Basic	Standard	Premium
System Health Check <i>(3 surveys during 1'st, 2'nd and 4'th year)</i>			X
Spare Part Discount <i>(Excluding filter basket)</i>	Fixed savings on spare parts and service engineer rates included.		
Service Engineer Rate Discount			
2.5-Year Service	X	X	X
5-Year Service	X	X	X
Internet Up-Link Installation		X	X
Remote Service Assistance		X	X
Software Update (Remote) <i>(Does not include upgrade to dual-mode functionality)</i>			X
Software Update (Onboard) <i>(Does not include upgrade to dual-mode functionality)</i>			X
Crew Training (Remote)	X	X	X
Crew Training (Onboard)		X	X
Computer Based Training (CBT)	X	X	X

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