



## MARINE & OFFSHORE

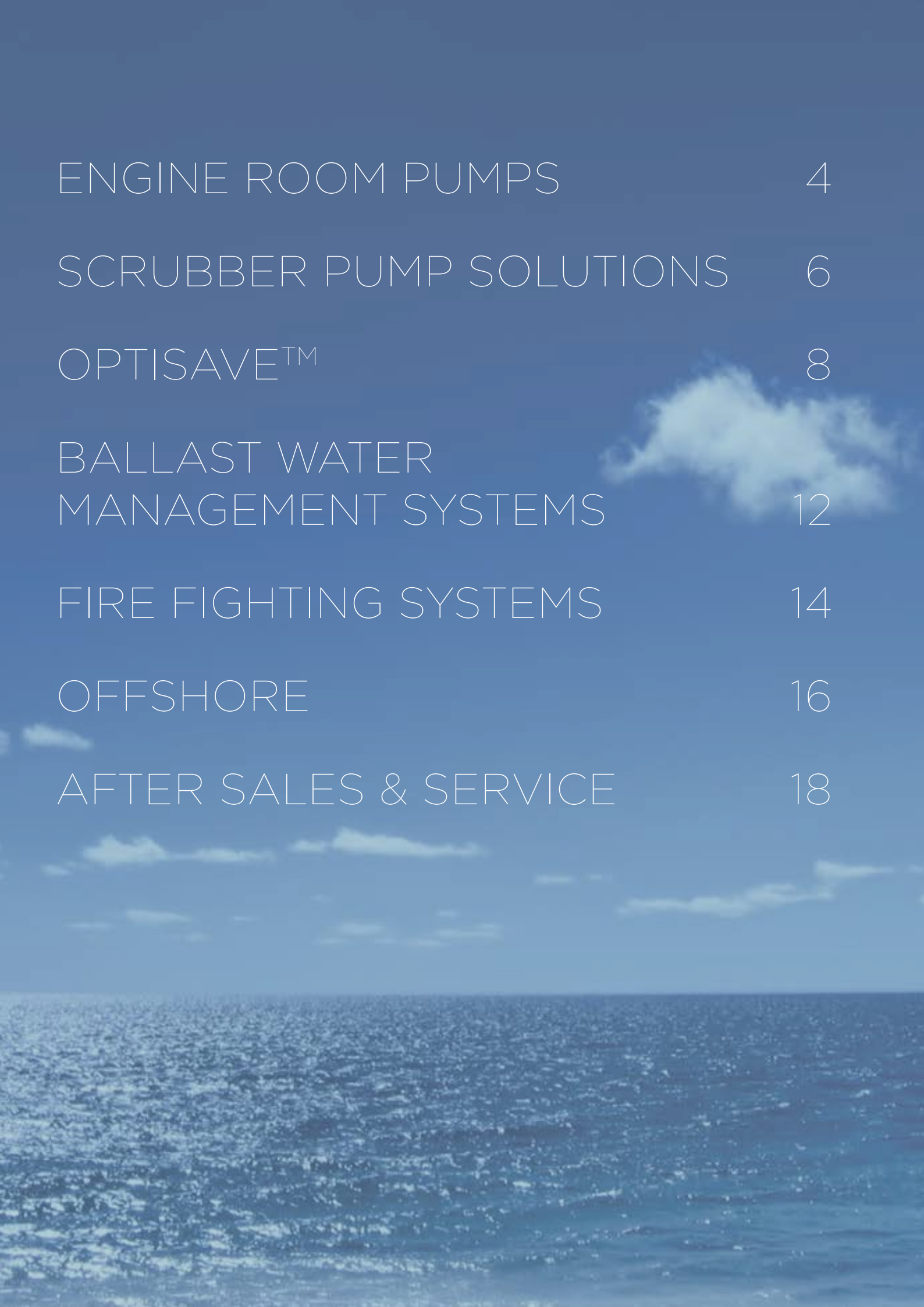
High-efficiency and Reliable Marine Pump Solutions

PROVEN TECHNOLOGY

**DESMI**

# THE NATURAL CHOICE OF HIGH-QUALITY PUMP SOLUTIONS

DESMI is your preferred supplier of reliable and high-quality marine solutions that include engine room pumps, ballast water management systems, fire-fighting systems, etc. Our pump range covers all marine applications and ensures a trouble-free operation with low energy consumption and high performance.



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# ENGINE ROOM PUMPS

DESMI centrifugal pumps are used as cooling ballast, fire, bilge, water circulation and pumps for fresh water as well as seawater. The pumps are available with capacities up to 7400 m<sup>3</sup>/h / 32,580 US gpm.

Our product range is based on the modular principle, which gives interchangeability of the most commonly applications and capacities.

Our pump solutions are well known for their high performance and efficiencies as well as trouble-free

operation. A DESMI pump ensures you and your ship a reliable installation with minimum downtime.

DESMI's dedication to constantly improve our existing programme and also develop new concepts, has tailored more than 100 types of pump combinations and designs, guaranteeing that DESMI can always provide the right pump solutions for our customers.

DESMI offers fast track pumps.  
With DESMI 48, you reduce  
maintenance and down-time as you  
have your pump ready for shipping  
within 48 hours.



Our pumps comply with requirements of all classification societies.

Example test certificates from own test bed and any classification society are available on request.

### Horizontal Pumps

Capacity range: Up to 400 m<sup>3</sup>/h / 1760 US gpm.  
Pressure range: Up to 150 m / 490ft.



### Vertical Pumps

Capacity range: Up to 7400 m<sup>3</sup>/h / 32,580 US gpm.  
Pressure range: Up to 140 m / 459ft.



### Internal Gear Pumps

Capacity range: Up to 250 m<sup>3</sup>/h / 1100 US gpm.  
Viscosity range: Up to 250,000 cST  
Temperature range: Up to 250°C / 482°F



DESMI is the natural choice when looking for high-quality pumps and pumping solutions. We have pumps for every application on board.

# SCRUBBER PUMP SOLUTIONS

DESMI scrubber pump solutions have been installed on board ships for many years and all pump installations are known for their high reliability and low maintenance costs including the high efficiency, which in most cases goes up to 85% and thus, ensures you the highest efficiency in class.

Our experienced staff, our wellknown brand, and first-class service are recognised all over the world, which makes DESMI the natural choice when searching the market for scrubber pumps.

DESMI has manufactured pumps and pumping solutions for more than a century, and in recent years our expertise in pumps for scrubber solutions has increased significantly, which makes us a unique partner delivering pumps for scrubber systems for all types of vessels and landbased applications.





The DESMI NSL stainless steel pump meets the special marine and industrial market requirements for:

- Aggressive fluids
- Sturdy design
- High efficiency (Up to 85%)
- Low NPSH values
- Easy installation/service



Today, DESMI is working together with the world's biggest suppliers of scrubber solutions, and some of the reasons why they prefer DESMI are:

- Highest efficiency in class
- Reliable scrubber pump solutions in stainless steel
- Many years of experience in installations worldwide

*Scrubber pumps in Super duplex and NiAL Bronze*

# OPTISAVE™

Optimizing pump and fan speed to current conditions and saving fuel.

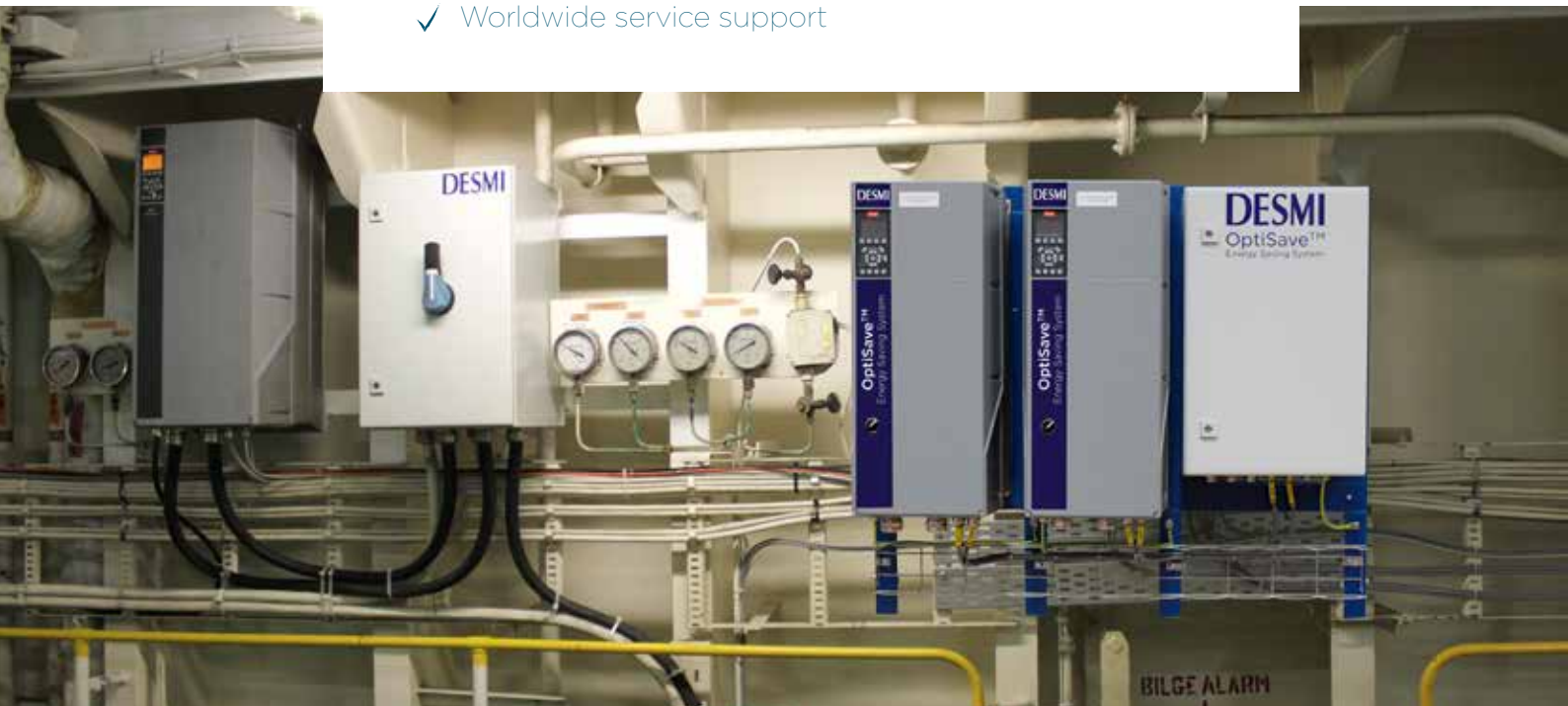
With the OptiSave™ Energy Saving system we guarantee the most efficient solution, where energy efficiency and fuel savings are key benefits.

The systems directly applicable with DESMI optisave™ are:

- Seawater cooling systems
- Steam condenser cooling system
- Fresh water cooling system
- Engine room ventilation
- Cargo hold ventilation
- Pump monitoring
- AHU fans
- Online monitoring of OptiSave™
- Customized solutions.

The many benefits of DESMI OptiSave™ are:

- ✓ Energy saving up to 80%
- ✓ Short return on investment
- ✓ Prolonged lifetime of pumps due to less wear and tear
- ✓ Minimum changes in existing electrical installations
- ✓ Proven technology
- ✓ Proven savings
- ✓ Reduced OPEX
- ✓ Worldwide service support



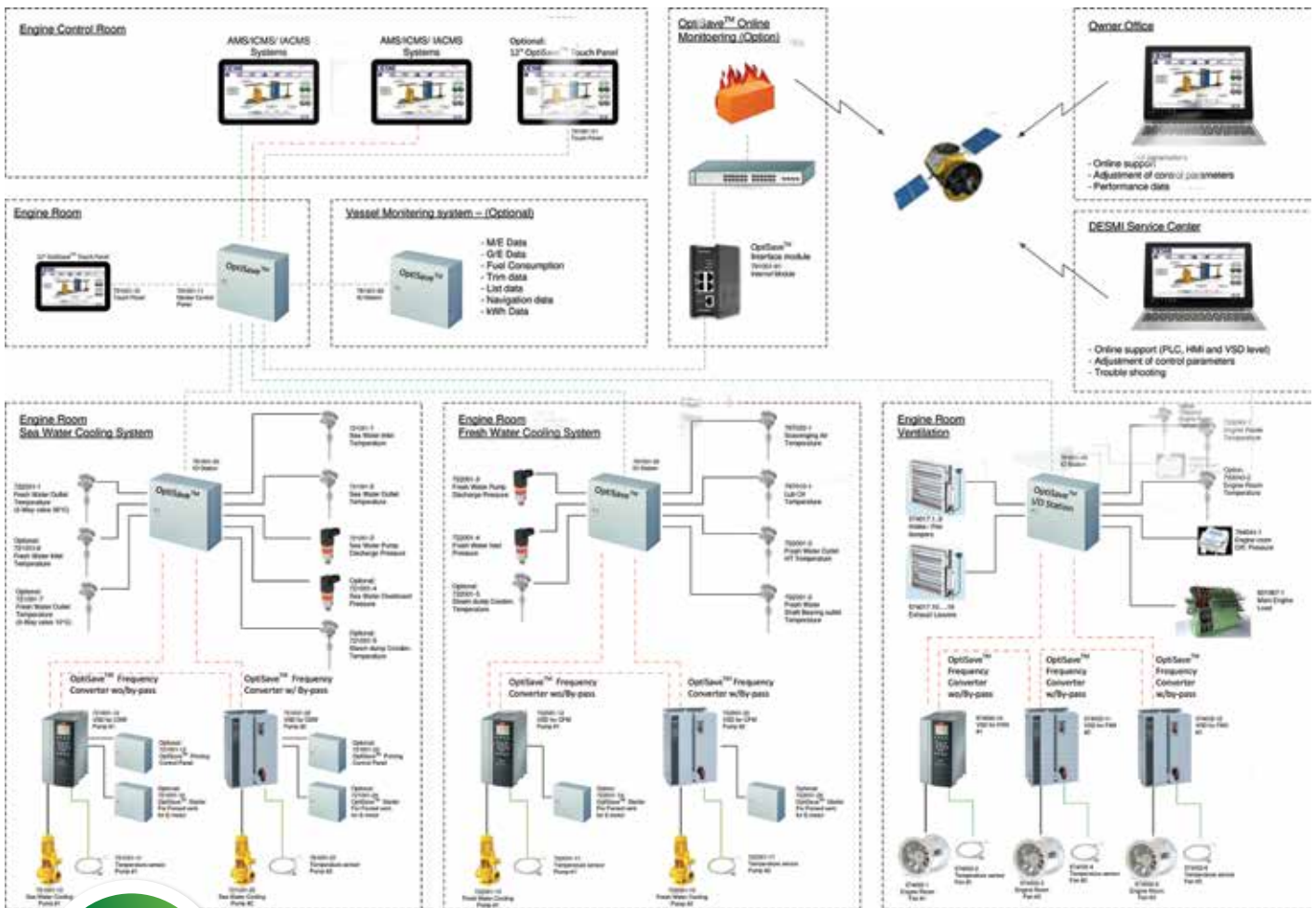


# DESMI OptiSave™ - Energy Saving System

## Modular system

The new generation of OptiSave™ is designed as a modular system with a common control platform, which can be used for both new building vessels and onboard vessels already in operation. The concept has a basic control platform and can be customized from project to project.

Depending on the application chosen, a system consists of basic components, as OptiSave™ Master Control panel, frequency converters and a number of field sensors, as pressure and temperature sensors. With the OptiSave™ product range, DESMI offers solutions from the less complex standalone solutions to full redundant concept.



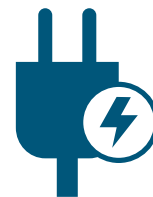
YEALY SAVINGS ON +690 INSTALLED OPTISAVE™ SYSTEMS AROUND THE WORLD:



216.000 tons of CO<sub>2</sub>



80,400 tons of fuel



414,000 MWh

For more info on OptiSave™ please follow the QR link or visit [www.optisave.info](http://www.optisave.info)





# HIGH-EFFICIENCY & RELIABLE MARINE PUMP SOLUTIONS

*Thousands of DESMI marine pumps at work on the seven seas have proved our customers' satisfaction with the performance of our pumps.*



# BALLAST WATER MANAGEMENT SYSTEMS

CompactClean Ballast Water Management System is the leading system in the marine industry with unrivalled treatment performance and lowest energy consumption in the class.

CompactClean is IMO and DNV type approved and tested to meet the latest requirements and guidelines

adopted by the International Maritime Organisation (IMO) and the US Coast Guard.

CompactClean can be used in all water salinities and temperatures and the UV-Transmittance ranges from very high to very low.



We offer three system variants:

## CompactClean

If your vessels operate worldwide, you will need the standard, CompactClean system.

## CompactClean OptIMO

If your trading pattern is mainly in IMO waters, then we recommend the CompactClean OptIMO solution.

## CompactClean Bulker

If you have a bulk carrier, then consider the CompactClean Bulker solution



Proven effective in all water salinities  
- including fresh water  
with UV-Transmission as low as 0.33.



- ✓ The smallest footprint in industry
- ✓ Only system in the world with integrated stripping solution
- ✓ Filter and UV unit in seawater resistant Nickel-Alu-Bronze
- ✓ Automatic flow control and lamp dimming
- ✓ Worldwide service network
- ✓ Fully automated operation
- ✓ 2 hours' holding time on USCG TA Certificate
- ✓ IMO type approval according to the new BWMS code from IMO
- ✓ Operational without add-ons
- ✓ Graphic HMI touchscreen interface
- ✓ Automatic generation of PDF reports to authorities
- ✓ Patent pending highly efficient UV unit design
- ✓ Short delivery time
- ✓ Easy maintenance
- ✓ No salinity or temperature limitations
- ✓ Down to UV transmission of just 42% - Also in US territory!
- ✓ 100% chemical free treatment

# FINEFOG™

## Fixed Water-Based Fire-Fighting Systems

DESMI has supplied more than 180 water-based fire-fighting solutions to all types of vessels around the globe, which is a living proof of that DESMI customers are satisfied with the performance of our products. Be it for the general cargo ships, passenger ships or offshore vessels, we know the owners' demands based on the many years of trouble-free operation.

The FineFog™ water mist has a highly suffocating and cooling effect. With this system you can protect the high risk objects in accordance with SOLAS requirements (e.g. main engine top, auxiliary engine top, heated fuel oil purifier, oil fired boiler front, incinerator burner, oil fired inert gas generator, etc.) without having to shut down the engine and evacuate personnel.

### Fixed water-based local application system for machinery space

The DESMI FineFog™ fixed fire fighting system is low pressure system developed to suppress or extinguish fire at an early stage before releasing the total flooding system.

### Systems Available:

- Fixed water-based local application system for machinery space
- Equivalent water mist fire extinguishing system for machinery spaces and cargo pump rooms - total flooding
- Water sprinkler system for accommodation
- Deck foam system for oil and chemical tanker deck protection
- Helideck foam system for helicopter landing area
- Water spray/deluge/drencher system for special category space



The FineFog™ is designed and approved to fully meet the requirements of SOLAS Ch.II-2/Reg.10.5.6, IMO MSC/Circ.913, MSC/Circ.1165 and MSC.1/Circ.1276 and is approved by the major recognized classification societies.



The fire suppression or extinguishing function is based on the water mist M5 spray head, complemented by DESMI design for easy and safe operation during the entire lifetime of the product. The spray head has proven its efficiency through many full-scale tests and real world fires.



### Fire-Fighting System

Water capacity:

9.4 l/min for nozzle installation height up to 8 m

15 l/min for nozzle installation height up to 14.5 m

# OFFSHORE

Reliability, minimum down time, available spare parts around the world, service, and fast replacement pumps. These are all words that describe the demands from the offshore sector in general.

The DESMI brand stands for just that; our products and solutions are highly suitable for any pumping service within the offshore utility applications.

We offer a wide range of centrifugal pumps, gear pumps, screw pumps and progressive cavity pumps, among others. All of them are well proven and highly suitable for offshore installations.

We supply pumps and service for new builds, vessel and system conversions as well as for change of worn out pumps.

**Whatever pump your vessel/unit needs, we will deliver.**

We at DESMI understand the offshore business in its entirety and can share our experience and expertise to supply exactly what our customers need, no matter the demands of the offshore environment.







Thanks to some 60 years of supplying pumps for the marine and offshore markets, DESMI has developed a unique know-how. Our highly skilled staff guides our clients in the right direction when choosing the perfect pump for the job. We have a wide range of pumps in stock, ready to be shipped anywhere within a week. Together with our well established spare parts service this makes DESMI the perfect partner for offshore pump supply.

### DESMI Centrifugal Pumps

Long lifetime

High MTBF (Mean Time Between Failure)

Short repair time (Max. 3 hours)

#### Horizontal Pumps

Capacity range: Up to 400 m<sup>3</sup>/h / 1760 US gpm.

Pressure range: Up to 150 m / 490ft.



#### Vertical Pumps

Capacity range: Up to 7,400 m<sup>3</sup>/h / 32,580 US gpm.

Pressure range: Up to 140 m / 459ft.



#### ROTAN® Internal Gear Pumps

Capacity range: Up to 250 m<sup>3</sup>/h / 1100 US gpm.

Viscosity range: Up to 250,000 cST

Temperature range: Up to 250°C / 482°F



# DESMI DESERVE

## After Sales & Service

We always strive to provide our customers with the very best service! That's why we have established DESMI DeServe - your guarantee for an excellent service 24/7/365.

DESMI Spare Parts Kits cover more pumps and have all the necessary parts when overhauling your pumps, but we also have individual spare parts that match your immediate need for maintenance.

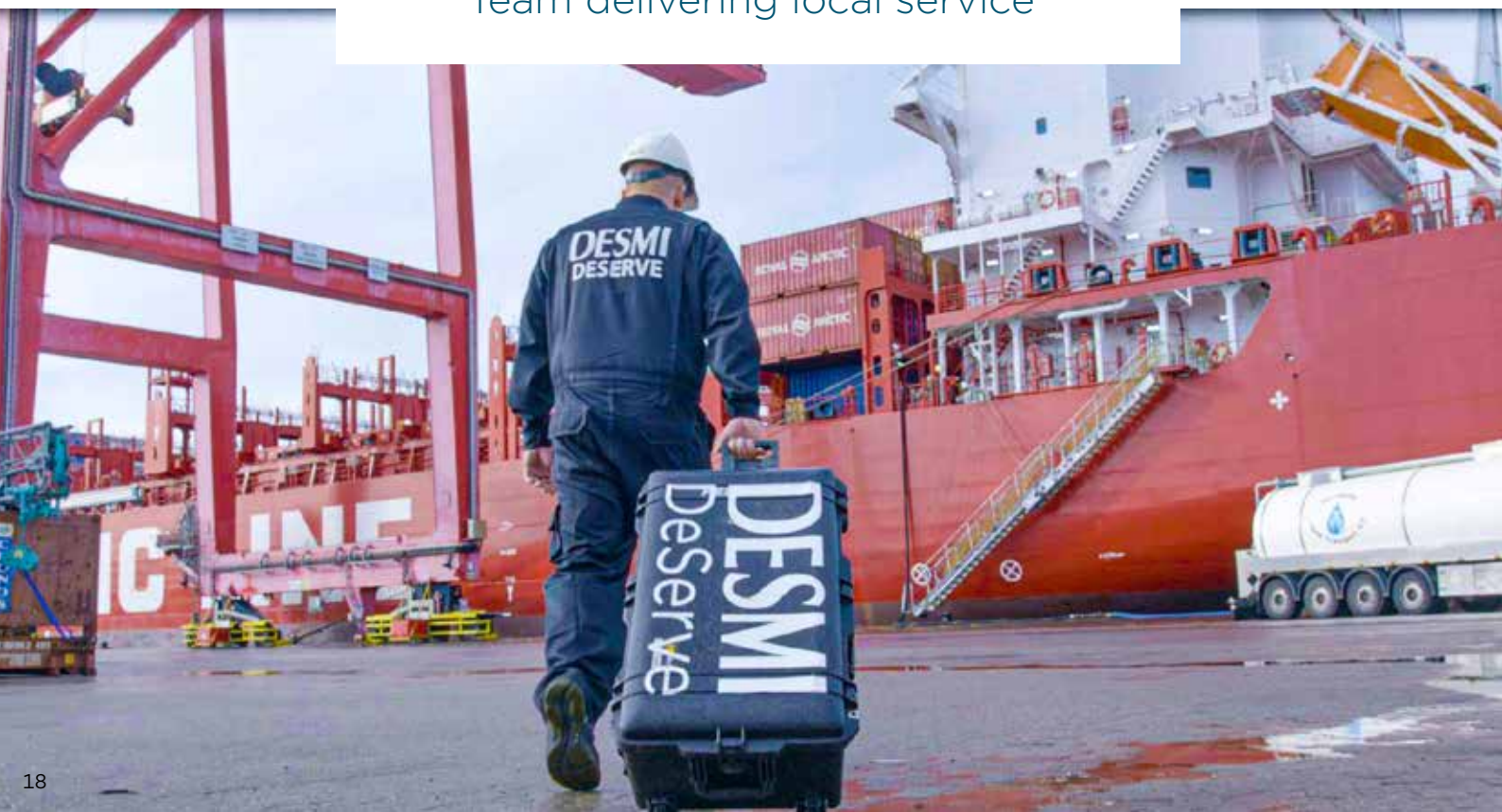
DESMI 48 is for you, who needs a replacement pump immediately. The DESMI 48 makes sure you can have your replacement pumps ready for shipping within 48 hours.

Our service on all pumps and solutions includes:

- Installation
- Commissioning
- On-site Service
- Repair / Maintenance

Don't hesitate to contact us right away if you need our assistance.

Our dedicated global DESMI Service Team delivering local service





### DESMI Genuine Spare Parts Kits for Simple Overhaul and Service

DESMI provides spare parts kits for easy and simple maintenance and overhaul of your pumps. We offer a variety of spare parts kits for a number of DESMI pump series.

To determine which spare parts kit you need and to provide you with the best service, we need to have the following information:

- Pump type (e.g. NSL 150-265)
- Serial number (e.g. 323249 or 30192-1)

#### Spare Parts Kits include:

- Mechanical shaft seal
- Special tool
- Bearings
- O-rings
- Gaskets
- Washers & nuts
- Item list
- Etc.



The DESMI Service Team operates globally and around the clock. We can offer simple advice over the phone or full, on-site maintenance and service programmes.

The team is factory-trained and fully capable of meeting both your technical and practical demands.

We have customized programmes to meet specific client requirements and be your partner of choice.

DESMI Service Team supports a working culture based on an appropriate respect for health, safety and environmental issues.

In case of emergency breakdowns, we are always able to access our global parts database, sending spare parts or complete pumps 24/7/365.

# THE DESMI GROUP - ONE GLOBAL COMPANY

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- DESMI Service Centers
- DESMI Companies
- DESMI Dealers/Agents

In need of more information or specifications? Contact us at [desmi@desmi.com](mailto:desmi@desmi.com) or read more about DESMI and DESMI's other products and solutions at [www.desmi.com](http://www.desmi.com)

MARINE & OFFSHORE

INDUSTRY

ENVIRO-CLEAN

DEFENCE & FUEL

UTILITY