



HAGEDORN

Products & Systems GmbH

SYSTEMS * SERVICE * SPARE PARTS FOR

- ✓ MARITIME AND OFFSHORE APPLICATIONS
- ✓ AND INDUSTRY APPLICATIONS



- ✓ QUALITY
- ✓ RELIABILITY
- ✓ FLEXIBILITY
- ✓ 24/7 SERVICE

ADDRESS:
DORNBUSCHER STRASSE 57
21706 DROCHTERSEN * GERMANY

CONTACT:
T: +49-4143 - 32970 42
F: +49-4143 - 32970 44
E: INFO@HAGEDORN-PRODUCTS.DE
WWW.HAGEDORN-PRODUCTS.DE



HAGEDORN

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CENTRIFUGAL PUMPS

The delivery program of HAGEDORN Products & Systems focuses on professional use for all applications. With our wide range we can meet every demands according to your needs.

Please view our products. We look forward to receive your request

- Vertical Pump
Flow rate (Q): up to 1.500 m³/h
Head (H): up to 130 m
- Horizontal Pump
Flow rate (Q): up to 2.000 m³/h
Head (H): up to 150 m
- Self-Priming Pump (also with cutter device)
Flow rate (Q): up to 140 m³/h
Head (H): up to 18 m
- Close Coupled Centrifugal Pump (Monobloc)
Flow rate (Q): up to 720 m³/h
Head (H): up to 130 m
- Split Case Pump
Flow rate (Q): up to 4.000 m³/h
Head (H): up to 170 m
- Macerator Pump
Flow rate (Q): up to 6,3 m³/h
Head (H): up to 12 m
- Vacuum / Sewage Pump
Air capacity: up to 93.000 l/h
Flushing capacity: up to 800 flushes/h



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- Propeller Pump
Flow rate (Q): up to 1.000 m³/h
Head (H): up to 24 m
- Submersible Pump (also with cutting device)
Flow rate (Q): up to 385 m³/h
Head (H): up to 42 m
- Side-Channel Pump
Flow rate (Q): up to 45 m³/h
Head (H): up to 225 m



Our pumps can be used for the following services in the Commercial, Residential, Agricultural, Marine & Offshore, Process, Petroleum and Food & Beverage industries.

Water Treatment & Supply * Sea Water Transfer * Fire Fighting & Protection * Bilging & Ballasting * Pressure Boosting * Air Conditioning * Cooling Towers * Refrigeration * Plumbing * Circulating Transfer * Irrigation * Drainage * Sewage Treatment Units



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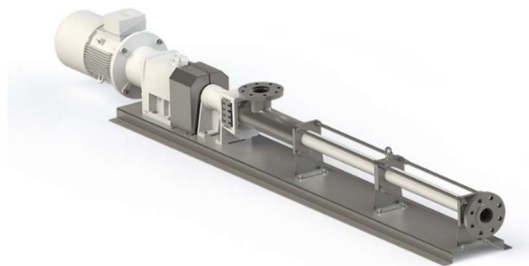


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DISPLACEMENT PUMPS

- Rotary Lobe Pump
Flow rate (Q): up to 1.500 m³/h
Head (H): up to 120 m
- Piston Pump
Flow rate (Q): up to 45 m³/h
Head (H): up to 100 m
- Air Operated Double Diaphragm Pump (AODD)
Flow rate (Q): up to 70 m³/h
Head (H): up to 85 m
- Mono-Screw Pump
Flow rate (Q): up to 560 m³/h
Head (H): up to 480 m
- Gear Pump
Flow rate (Q): on request
Head (H): on request
- Screw Pump (also with magnetic coupling)
Flow rate (Q): up to 450 m³/h
Head (H): up to 120 m
- Dosing Pumps
Flow rate (Q): up to 4,5 m³/h
Head (H): up to 250 m



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DRUM & CONTAINER PUMPS

Hagedorn products & systems offers a wide range of highly reliable and efficient pumps for use in Maritime, chemical processing, water treatment, metal finishing, plating agriculture and the petroleum industry as well as other specialized application areas, where high-grade pumps are required.

Common Applications

- ✓ Concentrated Acids
- ✓ Aggressive Alkalies
- ✓ Water Treatment Chemicals
- ✓ Flammable Liquids
- ✓ Non-corrosive liquids
- ✓ Mineral Acids

Technical Data

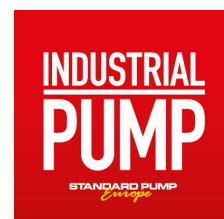
- ✓ Max. Flow: 132 l/min
- ✓ Max. Discharge: 22 m
- ✓ Max. Temperature: 80°C
- ✓ Immersion lengths: 27" (700mm) to 72" (1800mm)
- ✓ Custom lengths available
- ✓ Variable Speed Control Motors



The product line includes a number of different pump types - each one exclusively developed within their specific application area. The pumps can be fitted with a variety of features and components to adapt to specific pumping tasks.

we look forward to receive your requests!

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EVAPORATORS

Pomar Water manufacture waste heat evaporators to produce distillate water.

All units are totally made in CuNi 90/10 and include: feed sea water pump, anti-scaling dosing system and electric control panel with salinometer.



Also available multi-stage units and units built in different materials depending of the final use.

OSMOSIS FOR NAUTICAL

Adaptable Serie RO unit are specially designed for its installation in the nautical sector.

Its unique and compact design allows to have multiple settings to adapt the unit to the available space onboard. The system is a semiautomatic operation and also comes standard with 5,7" touch and color screen in order to control the operating parameters of the unit. To enhance the versatility, Pomar Water have designed also a removable screen which allows to place it in the proper place for its operation.



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The unit can be installed with a second touch screen with ethernet wire or be operated in remote with a tablet or smatphone by wireless connection.

Production range goes from 70 l/h to 280 l/h to meet the needs for any boat and ensure the best confort onboard with the best quality potable water.



MODULAR REVERSE OSMOSIS

Modular units include all the main elements of the system all installed in a common frame:

- ✓ Multimedia filter.
- ✓ Fine filters.
- ✓ High pressure pump.
- ✓ Membranes rack.
- ✓ Electrical control panel with salinometer.



Optionally, clients can include, in the same frame, other elements as feed water pre-treatment or potable water post-treatment.

The osmosis range of products can produce from 10 to 160 m³/ day.

Pomar Water has a Technical Department dedicated to give clients the best support to appraise and decide the better solution according with their needs. We work close to clients to provide them solution products and special systems.

Customized units include:

- ✓ Double pass RO to produce technical water
- ✓ Modular units with special dimensions,.
- ✓ Full automatic systems.
- ✓ Explosion proof systems
- ✓ Outdoor operation
- ✓ Special materials.

The customized units have production from 1 to 1.000 m³/day.

STANDARD REVERSE OSMOSIS

Pomar Water manufactures reverse osmosis units for the supply of potable or technical waters from sea water. They offer a large range of standard reverse osmosis equipments to satisfy all client's requirements.

All systems include: booster pump for

seawater, media filter, reverse osmosis module with: fine filters, high pressure pump, membranes and control electric panel with salinometer.



HEAT EXCHANGER

Pomar Water design and manufacture heater exchangers according to customers' needs and specifications. The equipments are made according to leading mechanical design codes using 3D systems design.

Heater exchangers have different applications in industry sector as refrigeration, steam condensation, heaters, vaporizers, concentrators o any type of heat exchange between two fluids.

In our heat changers manufacture Pomar Water use different types of material according to the application: Carbon steel, Stainless steel, Duplex/ Super duplex steel, naval bronze or cupronickel.

In Exchangers Department, Pomar Water design and manufacture complete refrigeration modules for the maritime, offshore and industrial sector. We supply the modules completes and ready for its installation, including: Heat exchangers, Circulation pumps, Electric control panel and Temperature regulation System.

POTABLE WATER HEATERS

To heat sanitary water on vessels and platforms.

Heaters can include control panel for resistances and circulation pumps. Units can be supplied loose or with all the elements installed in the same frame.

These are manufactured in stainless steel AISI-316L and with thermal isolation in 50 mm mineral wool

finished in stainless steel sheet. Sanitary heaters are available for heating through electric resistances, steam or hot water.





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HYDROPHORE TANK / UNIT

Designed and manufactured to maintain a stable water pressure in all the distribution systems avoiding frequent burst of speed of systems pumps.

Hydrophore groups are essential in maritime and offshore facilities for the potable or technical water supply or fire protection system.

Tanks, pipe and valves are manufactured in stainless steel AISI-316L.

Units are supplied including electric panel for control and pump operation. It can be also be supplied with loose elements or installed in a common frame.



MINERALIZERS

These units can mineralize and adjust the PH of the water produce in our water makers and reverse osmosis units.

It avoids corrosion in the water distribution system through the PH adjustment, for example, in pipes, storage tanks, etc.

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Pomar Water mineralizers are designed to assure that potable water produce is of the highest quality meeting the OMS standard.

The equipment is full manufactured in AISI-316L; it is supplied with the full mineral charge, control valve, manometer, security valve and level.

The mineralize unit can be also be supplied with the analyzer and PH probe installed over the unit.



UV STERILIZERS

The ultraviolet light is the more security system to avoid bad flavors and odors in potable water. Pomar Water sterilizer systems give clients a disinfection system of water chemical products free.

Pomar Water water sterilizers are designed for vertical assembly and the radiation chamber.

Is manufactured in stainless steel 1.4571 (316Ti).

High radiation lamp is guaranteed for 10.000 operation hours with optimized performance and flows.

The lamps include as standard supply security solenoid valve for automatic cut in case of alarm and non-sterilizer water protection as well as automatic flow limiter and control panel with alarms.

OUR PARTNER:  **Pomar**
Water

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CARBON VANES & FILTER

HAGEDORN Products & Systems GmbH is official distributor of SUPERVANE, who is a producer of OEM quality carbon vanes for vacuum pumps and compressors.

We are able to deliver (FROM STOCK) carbon vanes and air filters for following makers:

- Becker (Gebrüder Becker)
- Busch
- DVP
- ELMO RIETSCHLE
- Gardner Denver
- Hamworthy
- Heidelberg
- Orion
- Schmalz



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FLOWMETERS & MONITORING SYSTEMS

DFM Marine is used in telematics systems (GPS tracking systems) and as an autonomous fuel monitoring solution. DFM Marine is installed in fuel line of the engine / boiler / burner, directly measures fuel consumption and generates an output signal, which is sent to telematics unit (GPS tracker).

DFM Marine is used for monitoring fuel consumption and operating time of engine (fuel consumer).

Tasks



Fuel consumption optimization



Fuel misuse and theft detection



Fuel consumption monitoring



Engine testing for fuel consumption



Machine hours monitoring



MAX pressure

Flange connection.....25 bar

Connection thread.....16 bar

Viscosity of working fluid.....1,5 – 6,00 mm²/s (cSt)

Operating temperature.....-40...+85 °C

Measuring chamber material.....brass / duralumin * *specified in the order*

Inaccuracy rate.....0.5%*

* – for fuel consumption up 50 L/h inaccuracy rate is possible up to 1%



OUR PARTNER: **TECHNOTON**

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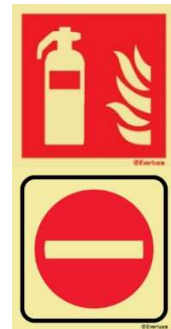
SAFETY SIGNS & COMPONENTS

Everlux photoluminescent products are manufactured to the highest technical standards using state of art equipment; thus ensuring we offer the best available photoluminescent quality for safety signs.

Everlux photoluminescent safety signs comply with IMO Resolutions, SOLAS Convention and ISO Standards.

Product range:

- Life-saving appliance – IMO signs / Marine safety signs
- Escape route signs
- IMO fire control signs
- Fire fighting equipment signs
- LLL system
- Panoramic signs
- Marking strips
- Warning signs
- Mandatory signs
- Prohibition signs
- Multipurpose combination signs
- Information signs
- ISPS Code
- Safety signs for super yachts
- Offshore wind – safety signs
- Water safety signs
- Temporary tie tags
- Anti-splashing tape
- Pipe content identification
- IMDG Code
- Safety awareness and training procedures
- General safety awareness notices
- Safety plans
- Fire control and safety plans
- Everlux frames
- Everlux adhesive



**RESTRICTED AREA
AUTHORIZED
PERSONNEL ONLY**

**UNAUTHORIZED PRESENCE WITHIN THIS AREA
CONSTITUTES A BREACH OF SECURITY**



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SPRAY CONTROL

Spray Control® is made in a round form for easy mounting around flanges and locking in place. A special metal filter inside the ring absorbed any spray-out and distributes it around the flange circumference. Spray Control® also provides for good steam protection.

Spray Control® is successfully used on practically every flange configuration, round, oval or other forms and with different gap or no gap between the flanges. The flexible net adapts itself to the gap. Where other spray shield rings cannot be applied when the flange connections deviate from the norm, the Spray Control® practically always fits.

Spray Control® protection shields are available in different types for a variety of applications.

Spray Control® flange spray shield, features

- universal application
- no tools required
- best choice of material
- perfectly adjustable
- safe-locking
- re-usable
- simple handling



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SERVICE

Pump repair and overhaul

With our certified partners and global network our service offers a fast and flexible execution of maintenance and repairs of diverse pump manufactures. According to customer preferences, our service employees conduct the work in our workshop or directly on-site.

If you are personally responsible for the repair and maintenance of your pumps, we will be happy to assist you in selecting the necessary replacement parts.

Our offer contains:

- ✓ Engineering
- ✓ International pick-up & delivery service
- ✓ Start-up & Installation service
- ✓ Repair
- ✓ Maintenance
- ✓ Spare part service
- ✓ Test runs in testing field



Mechanical seal reconditioning

A mechanical seal, where are individual parts damaged, we can do it through professional regeneration or exchange of items again "on new" trim. Shafts, shaft sleeves, pistons and similar parts may have longer life times after regeneration with our special coatings!

The regeneration and refurbishment of various sealing systems is carried out by experienced professionals in specialized machinery.

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SPARE PARTS

You are looking for spare parts?

Then ask us!

Through our long-standing and good relationships with worldwide renowned manufacturers - we are able to offer our customers fair prices with short delivery times

We specialize in the supply of technical spare parts amongst others to the following equipment:

- ✓ Pumps
- ✓ Flowmeters
- ✓ Compressors / blowers
- ✓ Galley equipment
- ✓ Separators / filtration
- ✓ Sewage treatment plants
- ✓ Valves
- ✓ Booster / Feeder/ MGO Modules
- ✓ Sanitary components
- ✓ Sensors
- ✓ Piping components



... and much more.

We look forward to your inquiry !

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ABOUT US

Based in Drochtersen near the River Elbe, between Hamburg, Cuxhaven and Bremerhaven, we are specialized in international trading with technical spare parts and components for maritime, offshore and onshore industry applications.

Besides our high quality spare parts, we also supply complete systems/aggregates. With our technical funded consulting we are working on your customized demands every day.

HAGEDORN Products & Systems GmbH has long terms cooperation with well-known makers all over the world, therefore we will provide you with professional and reliable support if you require spares / services for your vessels or for factory plants.

We are always at your disposal (24/7 Service) with our young dynamic team and our worldwide partners.

HOW TO FIND US



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SPARE PARTS * SERVICE * SYSTEMS



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