

Line Card

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Version 1.3

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1. Systems

1.1. Reverse Osmosis (RO)

- **Pretreatment**
 - Automatic Multimediafilters
 - Automatic selfcleaning filters
 - Bag filters
 - Cartridge filters
 - UV-Systems
- **Pump Systems**
 - Seawater pumps
 - High pressure pumps
 - Piston pumos
 - Axial pumps
 - Centrifugal pumps
 - Energy Recovery
 - Turbocharger System
 - Interstage Turbocharger System
 - Pressure Exchanger Systems
 - Flushing and Cleaning pumps
- **Membrane systems**
 - High Pressure Vessels up to 82bar
 - State of the art membrane modules
 - High Rejection
 - Low Energy Membranes

- **Post Treatments**
 - Remineralization
 - pH-Correction
 - Disinfection

1.1.1. Benefits

- Fully automatic start up, operation and shut down
- Automatic Cleaning in Place
- Duplex/High Duplex high pressure piping
- Measurement of all relevant parameters

1.2. Water Treatment

- Water production
- Bunker Water
- Water Supply
- Distance Point
 - Temperproof Registration

1.2.1. Key Data

- Conductivity
- pH measurement
- Hardness and alkalinity
- Free chlorine
- Redox measurement
- LSI (Langelier Saturation Index)

2. Services

2.1. Spare parts

We supply all kinds of spare parts and consumables to end customers. From pumps, valves, instrumentation and gauges to filters, filter materials and diaphragms.

2.2. Retrofit

- Replacement of old systems with modern technology
- Design adapted to the localities
- Maximum performance in the smallest space
- Conversion work in the dock or also during the journey
- Our team measures, plans, installs and commissions

2.3. Upgrades

- Your components are obsolete? No problem, we will find a solution and bring your system back up to date.
- We develop pinpoint modernization concepts for reverse osmosis, fresh water treatment and all associated measuring and dosing systems.

2.4. New buildings

- Compact, modern and highly standardized systems with maximum flexibility
- Easy integration into your planning
- PID and 3D models from our company
- Interface adaptation

2.5. Maintenance

Regular maintenance and servicing are essential for the most trouble-free and efficient operation of your equipment.

Our professional plant maintenance increases plant availability and also ensures low operating costs. We instruct your employees in the system through practical training and are your competent contact after the service if you have any questions.

2.6. Technical support

No matter where you are in the world, our team is at your service.

Contact us by phone or e-mail. You will be put in direct contact with one of our knowledgeable technical support experts. Our support team knows the system technology and can answer your questions quickly to reduce your downtime to a minimum.












2.7. Automation

The visualization of automation processes is a considerable interface between the automation system and the operator and for this reason our operator interfaces are designed to be user friendly, so if needed quick and easy access is possible. For this reason our operator interfaces are designed to be user friendly, so if needed quick and easy access is possible.

3. Suppliers

KSB	
Allweiler	
Danfoss	
LG Chem	
Dow Dupont	
Prominent	
Georg Fischer	
Siemens	
Protec	
Boll und Kirch	
Herborner	
Orpu	
Everblue	
Wouterwitzel	
Fedco	

Energy Recovery Inc	
Endress Hauser	Endress+Hauser 
Jumo	
Swan	
Desmi	
Festo	
Arca	
Gemü	
Speck	
Grundfos	
Pevasa	
Watts	 Watts Water Technologies, Inc.
Hamilton	
Wika	
Niezkodka	 ARMATUREN
Serto	

Bürkert	 FLUID CONTROL SYSTEMS
Groco	
OMAL S.P.A.	
Jets AS	
Omya GmbH	
ABB AG	
HACH LANGE GmbH	
Gardner Denver	
ifm electronic gmbh	ifm electronic 
Goetze KG Armaturen	
Victaulic	
NETZSCH Pumpen & Systeme GmbH	 Proven Excellence.
Fluytec	
Haarslev Industries A/S	
Xylem Water Solutions	
EDUR-Pumpenfabrik Eduard Redlien	

Your Supplier not in the list?
Just contact us.

4. References



Enchantment of the Seas

- Retrofit during Cruise
- 425 m³/day
- 10/2023



Voyager of the Seas

- Retrofit during Cruise
- 1000 m³/day (Pass 01)
- 850 m³/day (Pass 02)
- 05/2024



AIDAperla

- PLC Upgrade
- 4 x 600 m³/d
- 04/2025



AIDAdiva

- Installation in Dry Dock
- 750 m³/day
- 03/2025



Explorer of the Seas

- Retrofit during dry dock
- 1000 m³/day (Pass 01)
- 850 m³/day (Pass 02)
- 10/2025



AIDAluna

- Installation in Dry Dock
- 750 m³/day
- 12/2025



Adventure of the Seas

- Retrofit during Cruise
- 1000 m³/day (Pass 01)
- 850 m³/day (Pass 02)
- 12/2025



AIDAbella

- Installation in Dry Dock
- 750 m³/day
- planned for 03/2026



Future projects

- AIDAblu
- AIDAsol
- AIDamar
- AIDastella



Hanseatic Nature

- Retrofit during Cruise
- 2 x 120 m³/day
- Planned 05/2026