



ALMAWATECH

INNOVATIVE SOLUTIONS FOR WATER

ALMA ION

Ion exchange systems and DI cartridges



The **ALMA ION** product range offers individually designed ion exchange systems in pressure-resistant vessels as well as regenerable DI cartridges, including the convenient regeneration service by ALMAWATECH. Our ion exchange systems are customized to the highest standards to meet the unique requirements of a wide range of applications. All our systems are characterized by intuitive operation via a 9" touch panel and can be seamlessly connected to the process control system. Our pressure-resistant DI cartridges are ideal for the efficient production of deionized water and are used in ultrapure water systems for medical technology and hospitals, laboratory applications, steam boilers, sterilizers, autoclaves and other demanding areas of application. In addition, ALMA ION is also suitable for the post-treatment of wastewater containing heavy metals that require a high level of purification. Regeneration of the ion exchanger systems is carried out by special cleaning stations using caustic and acid.

Applications

- Wastewater containing heavy metals
- Water cycles
- Water recycling
- Elimination of trace substances
- Removal of persistent and difficult-to-degrade materials
- Removal of hydrocarbons and AOX
- Demineralized water production



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Specifications

- Corrosion-resistant containers made of GRP or stainless steel
- Little need for space
- High cleaning performance
- Regeneration through regeneration service or regeneration station

Advantages

- Remote monitoring modem
- Final inspection by conductivity measurement
- Demineralized water up to 0.1µS/cm conductivity
- Large selection of special resins
- Individual design
- Reliable and stable operation

Technical Versions - DI Cartridges

	PU 15	PU 22	PU 30	PU 42	PU 62	PU 102
Capacity [l/h]	300	600	1.000	1.800	2.400	2.400
Capacity at 10 °dH *	2.100	2.800	4.200	6.000	8.400	14.000
Pressure max [bar]	10	10	10	10	10	10
Temperature max [°C]	40	40	40	40	40	40
Dimensions [mm] (d x h)	237 x 445	237 x 600	237 x 700	237 x 1,065	360 x 750	360 x 1150
Weight [kg]	15	20	27	40	66	100
Connection set	¾"	¾"	¾"	¾"	¾"	¾"
Cartridge material	V4A Stainless Steel	V4A Stainless Steel	V4A Stainless Steel	V4A Stainless Steel	V4A Stainless Steel	V4A Stainless Steel

*Capacity may be higher or lower depending on the nature of the raw water

The ion exchange systems are individualized and tailor-made

Regeneration service

The ion exchange resins we use are regenerable and do not need to be disposed of.

You can reach our regeneration service at 06073 - 68747-60 or by e-mail at service@almawatech.com.

The ready-to-use stainless steel cartridge for the desalination of various waters offers the highest level of safety and comfort. With operating pressures of up to 10 bar and standard R 3/4" screw connections, the full desalination cartridges can be universally integrated into any process. An optional quick-release coupling set makes it easy to change cartridges. Filled with high-quality mixed-bed resins, the cartridges can be used for many purposes. For special applications, the cartridges can also be individually equipped with special ion exchange resins.



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ALMAWATECH GmbH - Your plant manufacturer and service provider in industrial water and wastewater technology offers everything from a single source

**Analysis &
Optimization**

**Planning &
Consulting**






**Water
chemicals**

**Operations
Management**








Plant engineering

Wastewater and process water

-  Treatment for direct and indirect dischargers
-  Pre- and post-treatment of wastewater
-  Process water Recycling
-  Ultrapure water production
-  Individual system solutions for all branches of industry

Procedure

-  Biological (aerobic/ anaerobic/ anoxic)
-  Precipitation, flocculation and neutralization
-  Filtration & reverse osmosis
-  Oxidation & hygienization
-  Modular systems

Specialized water chemicals from ALMAWATECH for wastewater applications, cooling water circuits, membrane systems and boiler plants.