



ALMAWATECH

INNOVATIVE SOLUTIONS FOR WATER

ALMA FIL

Multi-layer filter, gravel filter, sand filter



The **ALMA FIL** is a filtration technology system that is designed to effectively reduce undissolved substances such as suspended solids and colloidal particles. The filter material is selected individually according to the composition of the wastewater and the customer's specific requirements, whereby materials such as quartz sand or hydroanthracite can be used. Two-layer and adsorption filters are used as the final filtration stage after chemical-physical wastewater treatment plants. This enables the filtration of residual flocs in order to reliably comply with the specified limit values. Both manual and automatic backwashing of the pressure vessels is possible in order to ensure continuous and efficient operation. Filling the filter material and, if necessary, disposing of it is extremely user-friendly thanks to the corresponding nozzles, which ensures optimum handling and maintenance of the system.

Applications

- Drinking water treatment
- Police filters at precipitation plants
- Industrial wastewater from food and non-food
- De-ironing & demanganization
- Treatment of surface and groundwater
- Reduction of undissolved solids



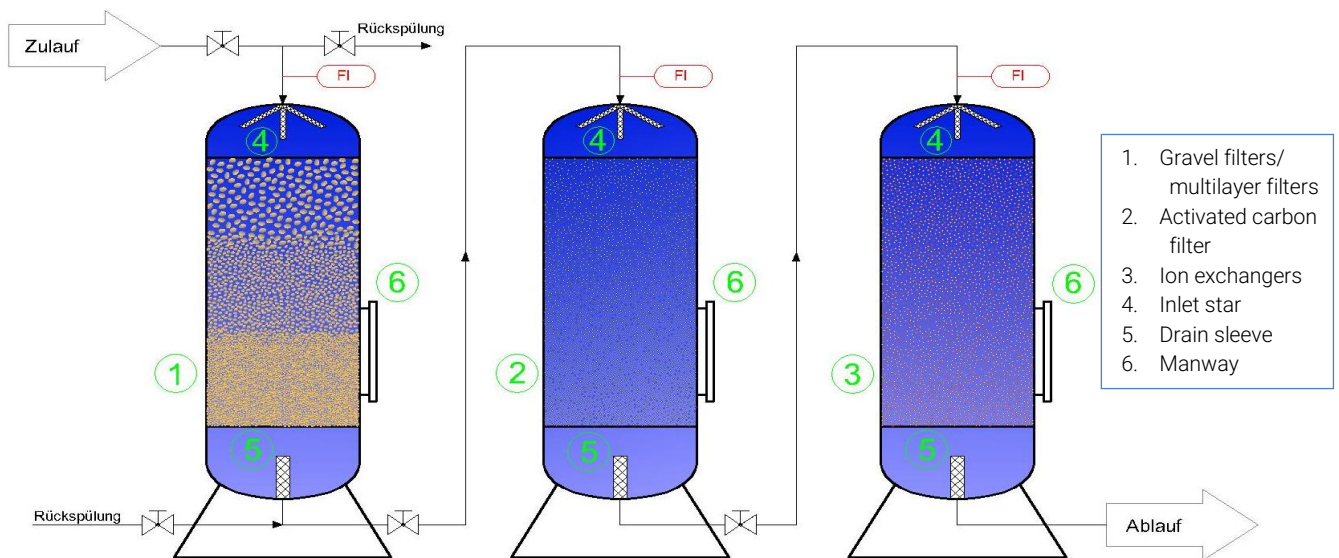
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Technical versions

Flow rate [m³/d]	Two-layer filter [l]	Capacity [l/h]	Inlet/outlet DN	Manual / automatic Backwash	Dimensions (LxWxH) [m]
2 - 4	150	200 - 400	32	x / 0	2.5 x 1 x 2
4 - 10	150	400 - 1.000	40	x / 0	3 x 1 x 2.2
10 - 20	300	1.000 - 2.000	50	0 / x	5 x 1 x 2.2
20 - 40	300	2.000 - 4.000	65	0 / x	8 x 1 x 2.2
40 - 100	600	4.000 - 10.000	65	0 / x	12 x 1.5 x 2.5

Process flow diagram



Specifications

- Corrosion-resistant containers made of GRP or stainless steel
- Specialized filter materials
- Air and/or water flushing
- Manual or automatic backwash
- Optimal design of the appropriate filter material

Advantages

- Remote monitoring modem
- pH/ T final check with recorder
- Integrated pressure differential measurement
- Individual design
- Low rinse water consumption and long filter runtimes thanks to process control using ALMA vision software



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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.