sorbliQ:SA PFAS Absorber System

Stainless steel filter tank with replaceable PFAS absorber cartridges, discharge valve and vent screw.

PFAS absorber cartridges with high-efficiency pressed absorber resin for highest uptake capacity for long and short chain PFAS compounds. Quick and easy replacement of the PFAS absorber cartridges.

Technical specifications:

- Min. operating pressure 2.5 bar, max. 8.0 bar
- Permissible water temperature: 35 °C

PFAS absorber cartridge

sorbliQ:SA7500

sorbliQ:SA	7500	15000	30000
Nominal flow, approx. [m³/h]	7.5	15	30
Pressure loss at nominal flow [bar]	1.2	1.2	1.2
Capacity, approx. [m³][1]	4,000	8,000	15,000
Nominal connection diameter [DN]	40	65	80
Diameter of filter tank [mm]	215	267	350
Height of filter tank [mm]	800	850	950
Number of absorber cartridges	8	16	30
Operating weight [kg]	50	80	136
Drain connection required [DN]	50	50	50

[1] *For a PFAS-20 concentration of 500 ng/l – a detailed water analysis is required for the design. Due to the large number of different PFAS connections, an exact capacity specification is only possible during operation.*

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PFAS removal

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Filter systems for PFAS removal

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Filter systems for PFAS removal

PFAS (per- and polyfluoroalkyl substances) are synthetic chemicals that have been used in numerous industrial and consumer products since the 1950s.
Due to their extremely stable carbon-fluorine bonds, they are considered "forever chemicals" because they are virtually non-degradable in the environment.

PFAS enter soil, surface water, and ultimately groundwater via various pathways: through industrial wastewater and exhaust air, the leaching of PFAS-containing waste in disposal sites, the use of firefighting foams, discharge from sewage treatment plants, and natural transport through rain and seepage into deeper soil layers.

Due to health risks, the following limit values have been set as sum parameters for drinking water in the EU:
- from 2026 for PFAS 20 < 100 ng/l
- from 2028 in addition for PFAS 4 < 20 ng/l

sorbliQ:LA PFAS absorber system

Three-stage system in series for maximum safety and optimal utilisation of the absorber resin.

GRP filter tanks with side-mounted filling and emptying nozzles; filter front piping made of PP, pre-assembled on an anodised aluminium frame with levelling feet.
Merry-go-round (MGR) sequence for optimum capacity utilisation: Once the absorber resin in the first filter tank is exhausted, that tank is rotated to the final position in the series.

Technical specifications:
- Min. operating pressure 2.5 bar, max. 8.0 bar
- Pressure loss at nominal flow: 1.5 bar
- Permissible water temperature: 35 °C

sorbliQ:LA	10000	15000	20000	30000	40000	50000
Nominal flow, approx. [m³/h]	10	15	20	30	40	50
Capacity, approx. [m³][1]	3 x 20,000	3 x 30,000	3 x 40,000	3 x 50,000	3 x 75,000	3 x 115,000
Nominal connection diameter [DN]	50	50	65	80	100	125
Diameter of filter tank [mm]	610	770	927	1,074	1,226	1,429
Overall height [mm]	2,500	2,600	2,700	2,800	2,900	3,100
Required room height [mm]	2,700	2,800	2,900	3,000	3,200	3,400
Footprint (W x D) [mm]	3,800 x 2,150	4,300 x 2,300	4,700 x 2,450	5,200 x 2,750	5,600 x 2,950	6,300 x 3,150
Absorber resin volume [l]	3 x 400	3 x 600	3 x 800	3 x 1,000	3 x 1,500	3 x 2,300
Operating weight [kg]	1,030	1,455	2,210	3,085	3,840	4,211
Drain connection required [DN]	50	50	50	50	50	50

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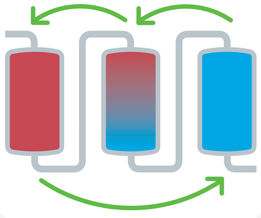
Function

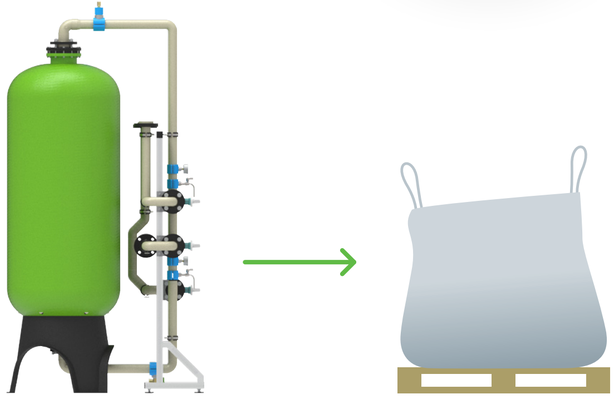
A highly selective absorber resin suitable for drinking water. Very efficient filtration is achieved thanks to the high absorption capacity for both long- and short-chain PFAS compounds.

MGR sequence principle

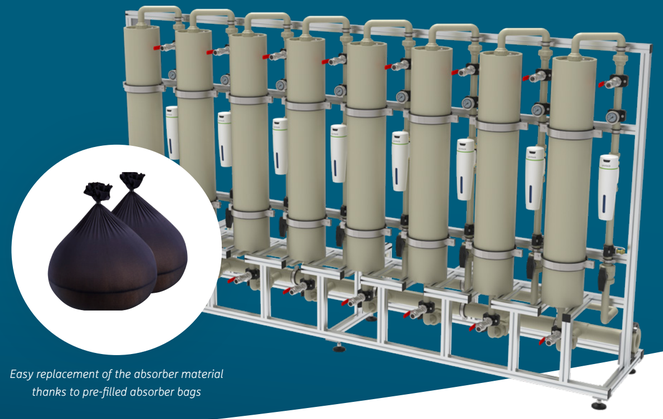
Maximum safety and optimal capacity utilisation thanks to the MGR sequence: The absorber resin in the first filter tank is only replaced once a PFAS breakthrough is detected after the second or third tank. The newly refilled filter tank is then rotated to the final position in the series.



After replacement, the contaminated resin is professionally disposed of and sent for thermal recovery.



sorbliQ:MA PFAS Absorber System



Easy replacement of the absorber material thanks to pre-filled absorber bags

Parallel connection of up to eight filter cartridges for high flow rates with a compactfootprint. Highly efficient absorption resin with a high capacity for both long- and short-chain PFAS compounds.

Filter cartridges and piping made of PP, pre-assembled on an anodised aluminium frame with levelling feet. Includes a fine filter to protect the absorber resin from particle contamination. Filter cartridges can be removed individually for easy resin replacement.

Technical specifications:
- Min. operating pressure 2.5 bar, max. 8.0 bar
- Pressure loss at nominal flow: 1.5 bar
- Permissible water temperature: 35 °C

sorbliQ:MA	3000	6000	9000	15000	24000
Nominal flow, approx. [m³/h]	3	6	9	15	24
Number of absorber cartridges [1]	1	2	3	5	8
Capacity, approx. [m³][1]	15,000	30,000	45,000	75,000	120,000
Nominal connection diameter [DN]	25	40	50	65	80
Diameter of filter cartridge [mm]	225	225	225	225	225
Overall height [mm]	1,950	1,950	1,950	1,950	1,950
Required room height [mm]	2,225	2,225	2,225	2,225	2,225
System width [mm]	500	1,000	1,400	2,325	3,525
System depth [mm]	750	750	750	750	750
Absorber resin volume [l]	30	60	90	150	240
Operating weight [kg]	98	167	250	417	667
Drain connection required [DN]	50	50	50	50	50

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