

Supratec FS600A Ultrafiltration Membrane Cassette

With Flat Sheet Membrane - PVDF

Product Data Sheet

Features

The Supratec FS600A Ultrafiltration Membrane Cassette is a new design with a very high packing density and back flush function. This cassette contains two membrane modules. Supratec Membrane GmbH is the designer and membrane manufacturer of the FS600A product with more than 40 years of experience in the field of wastewater treatment and is located in Simmern/hunsrueck, Germany.

This product is made of PVDF ultrafiltration membrane (PES optional) with a nominal pore size of 0.03 μm . This high-flux membrane is used for removal of macro-molecules, concentration of organic solutes, microbial and particle removal and water and wastewater treatment.

Features include:

- Advanced Flat sheet membrane MBR module design with permeate back flush
- Minimum chemical cleaning requirement
- High footprint packing density as hollow fiber products
- One of the highest module membrane surface area
- High sustainable operating flux over entire membrane life
- Spacers with high stiffness to avoid dimensional changes
- Easy to operate with fully automatic control system

Applications:

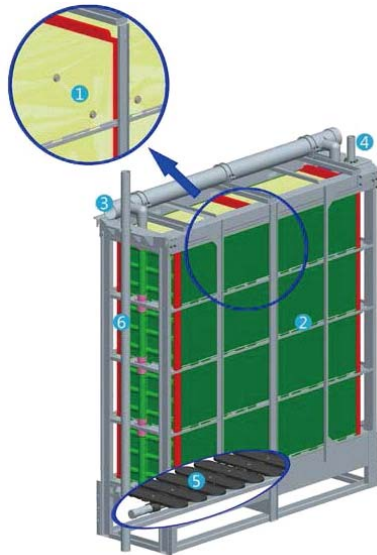
- Municipal wastewater
- Industrial wastewater
- Water reuse
- Drinking water treatment
- Grey water treatment



Product Specifications

Model	FS600A
Membrane material	PVDF (PES optional)
Nominal membrane pore size	0.03 μm
Membrane permeability(Clean water)	1,500 l/mh/bar
Membrane Surface	544 m ²
Dimension	2,500*2,300*700 mm(H*W*D)
Backflushable	Yes
Flux rate (MBR application)	10 – 60 l/m ² .h
Supporter	PET (PP optional)
Spacer	High Stiffness PET Textile
Dry weight	570kg

Product Structure



Supratec FS600A UF Membrane Cassette includes 6 elements:

- ① Membrane element
- ② Module frame
- ③ Water outlet
- ④ Air tube
- ⑤ MF650 diffuser*
- ⑥ Sliding rail

*Note: Supratec MF650 diffuser is designed and produced by Supratec Group.

Operating Specifications

Maximum operating temperature	40°C (104 °F)
Typical operating pressure (water)	20 – 350 mbar
pH Range	2.0 – 11.0
Cleaning period	1 or 2 times/year
Water depth	2.8 – 6 meters
Aeration Type	High efficiency plate diffuser MF650
Max Chlorine Tolerance	Up to 1,500 ppm as NaOCl
Lifetime Chlorine Tolerance	1000,000 ppm.hr as NaOCl
Air demand	60-120 m³/h
Dry weight	570kg

Notes

Shipping weight depends on packing material and quantity shipped.

Storage and Protection

Supratec FS600A Membrane Cassette should be stored in proper environment. Once the modules come in contact with water or put in use, they should never be stored dry. Typically for long-term shutdown (>7 days), the modules should be cleaned and immersed in proper solution. All cleaning, storage and operational procedures should be based on actual O&M manual provided by Supratec.

Service and Technical Support

Supratec provides a full range of products of different sizes. The design information provided is for the most common product and Supratec should be consulted for other sizes and requirements. Supratec has an experienced team available to answer questions and provide reasonable technical support.

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