

Supratec HC Series Ultra-filtration Membrane Module

With Hollow Fiber Membrane - PVDF

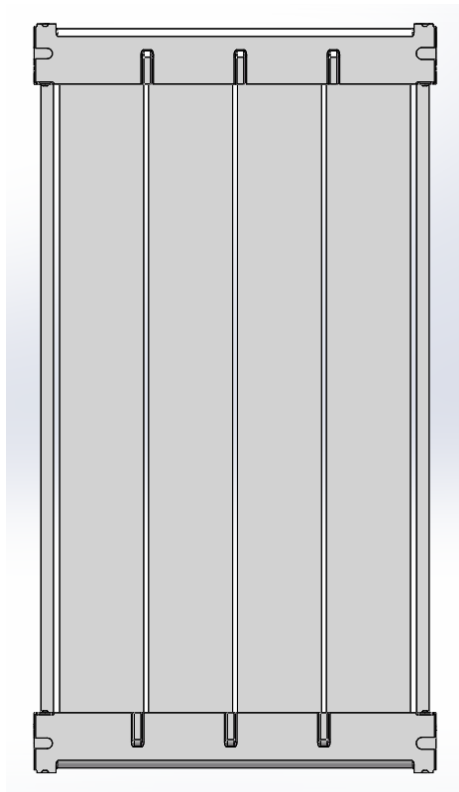
Product Data Sheet

Features

The Supratec Ultra-filtration Membrane Module is a standard hollow fiber membranes module. Supratec Membrane GmbH is the designer and manufacturer of the membrane 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 proprietary polyvinylidene fluoride (PVDF) ultra-filtration membrane 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. This product is made of strong and durable hollow fibers without any breakage and is available in different configurations and designs and may be customized to meet customer requirements. Features include:

- **Very High Flux**
The module used in Supratec cassette has exceptionally high sustainable fluxes requiring less square meter than other competitors.
- **Applicable to Wide Range of Feed Water Quality**
The Module utilizes a very tolerant membrane and a robust product design that allows using it for a wide range of applications and variable feed water quality.
- **Easy to Clean**
Supratec hollow fiber product is manufactured with proprietary hydrophilic PVDF membranes with anti-fouling characteristics. This membrane is stable, flexible, and easy to clean.



Product Specifications

Supratec UF Model	HC15 Module	HC10 Module
Membrane surface properties	Non-ionic and hydrophilic	
Membrane type	Proprietary PVDF	
Membrane permeability(Clean water)	1,500 lmh/bar	
Nominal membrane pore size	0.03 μm	
Membrane area per module	29 m ²	19.5 m ²
Dimension (L*W*H)	836*60mm*1560mm	836*60mm*1300mm
Water Connector	DN20 Threaded hole	
Back flushable	Yes	
Flux rate (MBR application)	10 –50l/m ² ·h	
Supporter	PET	
Dry Module Weight	30 kg	20 kg
Maximum operating temperature	40°C (104 °F)	
Typical operating pressure (water)	20 – 350 mbar	
Cleaning pH Range	2.0 – 11.0	
Cleaning period	1 or 2 times/year	
Water depth	3.0 – 6 meters	2.8 – 6 meters
Air demand	100– 200 m ³ /h	
Max Chlorine Tolerance	Up to 1,500 ppm as NaOCl	
Lifetime Chlorine Tolerance	1000,000 ppm.hr as NaOCl	
Operating Chlorine Tolerance	< 2 ppm	

Notes

Permeate connection diameter is inner diameter.

Shipping weight depends on packing material and quantity shipped.

Storage and Protection

Supratec UF Membrane Module 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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