

## Supratec HA2028 Ultra-filtration Membrane Cassette

With Hollow Fiber Membrane - PVDF

### Product Data Sheet

#### Features

The Supratec HA2028 Ultra-filtration Membrane Cassette is a new design of hollow fiber membranes. Supratec Membrane GmbH is the designer and membrane manufacturer of the HA2028 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  $\mu\text{m}$ . 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 HA2028 membrane used in Supratec module has exceptionally high sustainable fluxes requiring less square meter than other competitors.
- Applicable to Wide Range of Feed Water Quality**  
 The HA2028 Membrane Cassette 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

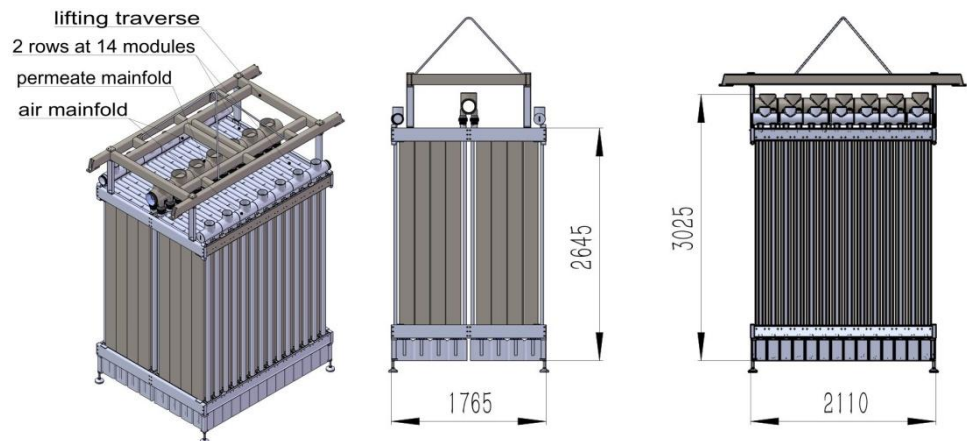
<b>Model</b>	<b>Supratec HA2028 UF Membrane Cassette</b>
<b>Membrane surface properties</b>	Non-ionic and hydrophilic
<b>Membrane type</b>	Proprietary PVDF
<b>Membrane permeability(Clean water)</b>	1,500 l/mh/bar
<b>Nominal membrane pore size</b>	0.03 $\mu\text{m}$

#### Design Information

<b>Membrane area per module</b>	93.3 m <sup>2</sup>
<b>Amount of Module</b>	28pcs (can be changed according to requirement)
<b>Membrane Surface</b>	2,612m <sup>2</sup>
<b>Dimension</b>	2110*1765*3025mm (L*W*H)
<b>Back flushable</b>	Yes
<b>Flux rate (MBR application)</b>	10 –50l/m <sup>2</sup> ·h
<b>Supporter</b>	PET
<b>Dry Module Weight</b>	65 kg
<b>Cassette Weight</b>	2100 kg (Dry) / 2600kg (wet)

**Figure 1**

Structure and Dimension of Supratec HA2028 UF Membrane Cassette



**Operating Specifications**

<b>Maximum operating temperature</b>	40°C (104 °F)
<b>Typical operating pressure (water)</b>	20 – 350 mbar
<b>Cleaning pH Range</b>	2.0 – 11.0
<b>Cleaning period</b>	1 or 2 times/year
<b>Water depth</b>	3.0– 6.0 meters
<b>Air demand</b>	155– 310 m³/h
<b>Max Chlorine Tolerance</b>	Up to 1,500 ppm as NaClO
<b>Lifetime Chlorine Tolerance</b>	1000,000 ppm.hr as NaClO
<b>Operating Chlorine Tolerance</b>	< 2 ppm

**Notes**

Permeate connection diameter is inner diameter.

Shipping weight depends on packing material and quantity shipped.

Product Options: Standard is grounding mounted with feet, suspension and lifting is optional;

**Storage and Protection**

Supratec UF 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.

For more information, call the Supratec Membrane Branches:  
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