

Supratec®

HP2580

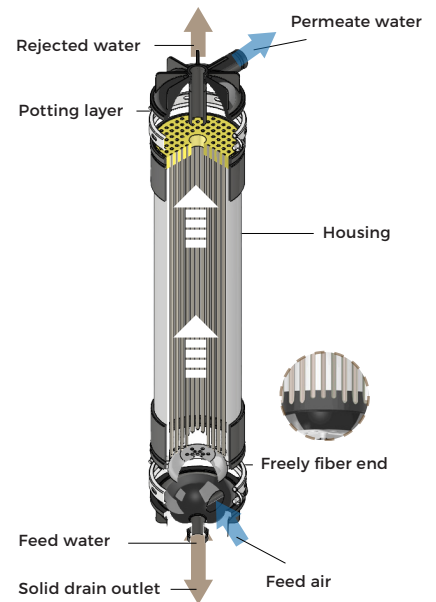
Pressurized Ultrafiltration Modules

HP2580 is made of braid supported proprietary polyvinylidene fluoride (PVDF) hollow fiber ultrafiltration membrane with a nominal pore size of 0.03 µm. This product is made of strong and durable braided hollow fibers without any breakage (>600N). All fibers are made in Germany with a typical German Industry 4.0 mode production lines. A unique single side potting process used in HP2580, which dramatically improves operation at much higher SS load with longer operation cycle between cleaning, much more efficient air scouring, also concentrated solids can be drained by gravity freely.

The unique design of the HP2580 membrane module, the pure water flux of fibers can reach 3000LMH/bar (20°C), which fully improves the adaptability of pressure ultrafiltration to a variety of water and wastewater. It can be widely used in municipal sewage, industrial wastewater, water reuse, seawater desalination, drinking water treatment and other fields.



- Supported fibers are virtually unbreakable
- Waste discharge reduced **50%**
- Made-in-Germany quality
- SS up to **1000mg/l**

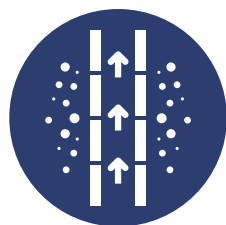
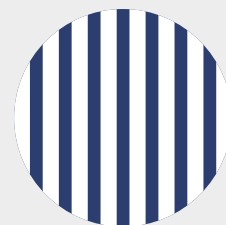


Supratec® HP2580

The most robust pressurized UF module as a new generation

Key Features

- **Longer Service Life**
 - Supported membrane with reinforced braid, unbreakable
 - Double-layer centrifugal potting process by European standard
- **Higher Flux**
 - Uniform pore size and high porosity
 - Pure water flux up to 3000LMH/bar (20°C)
- **Cost Saving**
 - High membrane area of single module, saving the space
 - Less discharge, higher recovery rate design
 - Lower pretreatment cost
- **Higher Quality Production**
 - Supported PVDF hollow fiber
 - Pore size of fiber is 0.03µm
 - Higher removal rate of bacteria and virus
- **Simple Installation and Maintenance**
 - Integrated modular design
 - Less downtime, easy to clean and lower frequency cleaning
 - Less chemicals



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Specifications

Module	Module Type	Supratec HP2580
	Materials	Proprietary PVDF
	Effective Area (m ²)	76
	Nominal Pore Size (μm)	0.03
	Fiber ID/OD (mm)	1.3/2.3
Module Size	Nominal Dimension (mm)	Φ250×2630
	Connector Size	DN50
Materials	Housing	UPVC
	Potting	Polyurethane
Operation Conditions		
Operation Parameters	Temperature(°C)	1 - 40
	pH Range (Continuous)	2-10.5
	Max.NaClO (ppm)	4000
	Feed Flux (m ³ /h)	3-15
	Air Scour Flow (Nm ³ /h.module)	10-15
	CIP pH Range	2-11
	Max. Feed Pressure(kPa)	310
	Max. TMP (kPa)	225

Innovation Applications



HP2580 UF membrane modules and integrated systems are an innovative generation, Some typical applications below will benefit from Supratec innovative product, cost-effective and trouble-free solution.

● Sewage Reuse:

Much higher recovery rate can be achieved, 50% less discharge and it will release your suffering from fluctuated feeding quality, without coagulant dosing limitation.

● Seawater Desalination:

HP2580 can realize ultra-short process and less space requirement, which will automatically reduce your CAPX and OPEX cost.

● Drinking Water:

HP2580 can offer you a great opportunity to use affordable pressurized module in all kinds of feeding water source without any judge issue, no need to dig some concrete tanks for submerged membrane. Additionally, this will make your drinking water production process always covered in piping from safety control viewpoint.