



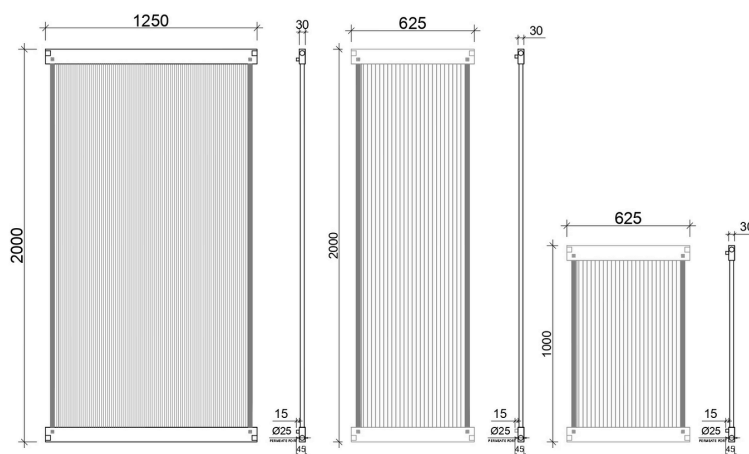
SRP REINFLO SERIES

Submerged MBR
Membrane Modules



PRODUCT DESCRIPTION

Membrane Material	Reinforced- PVDF
Membrane Configuration	Capillary
Nominal Membrane Pore Size	0.03 μm
Potting Material	Epoxy
Membrane ID/OD	1.0mm/2.6mm
Preservative	Glycerin (35%)


SRP RF35
SRP RF16
SRP RF08

MEMBRANE SPECIFICATIONS

Membrane Model	SRP RF08	SRP RF16	SRP RF35
Surface Area (m ²)	08	16	35
Membrane Dimensions (L x W x H)	30 x 625 x 1000	30 x 625 x 2000	30 x 1250 x 2000
Permeate Port Connection (mm dia)	25	25	25

CASSETTE SPECIFICATIONS

Cassette Model	Cassette Dimension (L x W x H) (mm)	Total Filtration Area (m ²)	Suitable for Flow (KLD)	Membrane Module	No. of Modules	Air Scouring Rate (Nm ³ /hr)
SRP REINFLO 40C	665 x 530 x 1540	40	15 - 25	SRP RF08	5	10 - 12
SRP REINFLO 80C	675 x 900 x 1550	80	30 - 50	SRP RF08	10	20 - 25
SRP REINFLO 96C	675 x 1040 x 1550	96	40 - 60	SRP RF08	12	25 - 30
SRP REINFLO 128C	690 x 1350 x 1565	128	50 - 80	SRP RF08	16	30 - 40
SRP REINFLO 160C	690 x 1630 x 1565	160	65 - 100	SRP RF08	20	40 - 50
SRP REINFLO 240L	690 x 1280 x 2565	240	90 - 150	SRP RF16	15	55 - 65
SRP REINFLO 320L	690 x 1630 x 2565	320	120 - 200	SRP RF16	20	70 - 86
SRP REINFLO 400L	700 x 2000 x 2575	400	155 - 250	SRP RF16	25	90 - 110
SRP REINFLO 525M	1315 x 1280 x 2565	525	200 - 330	SRP RF35	15	115 - 145
SRP REINFLO 875M	1325 x 2000 x 2575	875	335 - 550	SRP RF35	25	195 - 235
SRP REINFLO 1750M	1400 x 3900 x 2650	1750	670 - 1100	SRP RF35	50	385 - 475

SALIENT FEATURES

Reinforced PVDF hollow fibers offer a distinct advantage over their non-reinforced counterparts, particularly in challenging environments like wastewater treatment with high fouling characteristics. The reinforcement enhances the mechanical strength and tensile modulus of the fibers.

This mechanical fortification allows the membrane to withstand the stresses induced by fouling agents, thereby prolonging its operational lifespan. Additionally, the reinforced structure often exhibits a more uniform pore size distribution and reduced pore swelling, which are critical factors in maintaining high filtration efficiency and fouling resistance. Therefore, in-situ reinforced PVDF hollow fibers represent an ideal choice for wastewater applications where both mechanical robustness and high separation performance are required.

Robust Membrane: The SRP REINFLO membranes are produced using an innovative method known as "Complex Thermally Induced Phase Separation" (c-TIPS) technology. This process imparts a high degree of crystallinity to the membrane, leading to outstanding chemical resistance, robust mechanical properties, and an extended lifespan.

Oxidation-inert Membrane: The SRP REINFLO membrane module from the Reinforced PVDF polymer is chemically inert, allowing it to be effectively cleaned using a powerful oxidizing agent.

High Strength: The SRP REINFLO Membrane consists of a robust PVDF membrane that is reinforced with a net tube, providing it with strong capillary resistance to efficiently safeguard against any damage to the membrane's capillaries.

Permanently Hydrophilic Membrane: The initial strength of UF or MF membrane products typically decreases over time due to a loss of membrane hydrophilicity caused by polymer reconfiguration. However, SRP REINFLO has addressed this issue through extensive research and advanced polymerization methods. They have successfully achieved a consistent and long-lasting flux by permanently enhancing hydrophilicity using an innovative cross-linking technology.

No Membrane Peeling: The SRP membrane is integrated and securely adheres to the supporting tube, effectively addressing the issue of the membrane detaching or separating.

OPERATING CONDITIONS

Filtration Mode	Gravity/Suction Filtration
Filtration cycle	20~120 (mins)
Operating Flux (ETP) Operating Flux (STP)	10 to 20 (L/m ² h) 20 to 30 (L/m ² h)
Air purge flow	1~3 (Nm ³ /Nos)
pH range	1~12
Max. tolerated NaOCl concentration	5000 (mg/L)
Max. TMP	10~50 (kPa)
Operating temperature	5~40 (°C)
Storage temperature	5~40 (°C)

APPLICATIONS

Large Municipal Plants: Suitable for large-scale operations due to higher flow rates.

Industrial Wastewater: Effective for treating complex industrial effluents.

Water Reclamation: Used in projects that require water to be reclaimed for agricultural or industrial use.

Oil & Gas Industry: Useful for treating produced water.

Marine Applications: Compact design makes it suitable for shipboard wastewater treatment.

ADVANTAGES

Higher flow rates.

Can handle a wide range of wastewater types.

Large Cassettes are also available that are suitable for higher flows.





SRP Membranes

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