SRP Membranes

SR PARYAVARAN · A DIVISION

PRODUCT CATALOGUE

SRP ULTRAFLO 4000 SERIES

ULTRAFLO
4000 SERIES

THE MEMBRANE OF THE FUTURE

Ultrafiltration Membrane Outside-In with Air Scouring

Reinforced PVDF capillary UF modules for tougher duty.



PRODUCT CATALOGUE · 2026

SRP Ultraflo 4000 Series

www.srpmembranes.com

www.srpepl.com

01 PRODUCT OVERVIEW

Product description & technical information

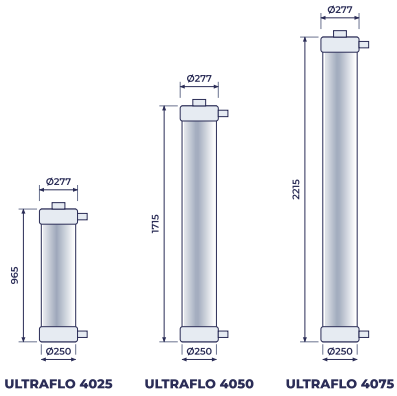
PRODUCT DESCRIPTION	
Membrane material	**Reinforced PVDF**
Membrane configuration	**Capillary**
Nominal pore size	**0.03 µm**
Potting material	**Epoxy**

TECHNICAL INFORMATION	
Housing material	**PVC/ABS**
Membrane ID / OD	**1.0 mm / 2.6 mm**
Preservative	**Glycerin (35%)**
Typical filtrate flux	**70–120 L/m²h**

Figures are taken from the SRP ULTRAFLO 4000 datasheet. Specifications may change as improvements are made.

02 DIMENSIONS

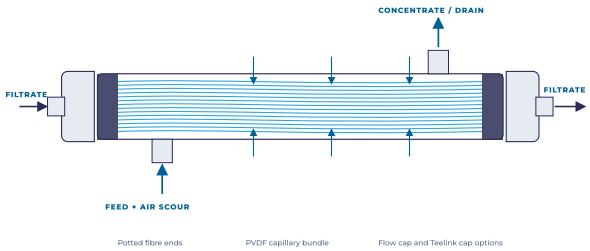
GENERAL ARRANGEMENT



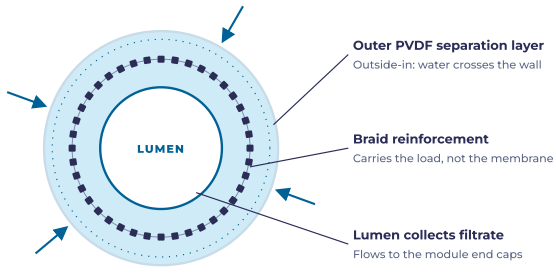
Body Ø250 mm and end cap Ø277 mm for all modules. Dimensions D, E, F, G and H are in the dimension table below. Letters follow the dimension drawing in the datasheet.

03 MEMBRANE ILLUSTRATIONS

UF MODULE



FIBRE WALL



Capillary fibre, magnified cross-section



04 MODEL SPECIFICATIONS

Models and specifications

MODULE	Area (m²)	A (mm)	B (mm)	C (mm)	D (Ø mm)	E (mm)	F (Ø mm)	G (mm)	H (mm)
SRP ULTRAFLO 4025	25	850	750	965	250	172	277	40	75
SRP ULTRAFLO 4050	50	1600	1500	1715	250	172	277	40	75
SRP ULTRAFLO 4075	75	2100	2000	2215	250	172	277	40	75



Reinforced PVDF
Material

0.03 µm
Pore

2–10
pH

25–75 m²
Module area

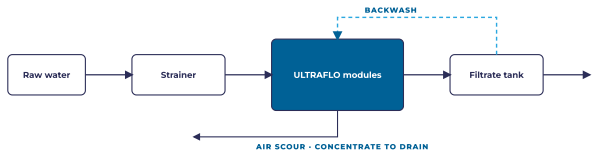
05 MEMBRANE STRUCTURE

Reinforced capillaries for pressurised UF

SRP ULTRAFLO 4000 modules use a reinforced PVDF capillary membrane with a 0.03 µm pore size. The reinforcement adds mechanical strength and tensile modulus, so the fibres withstand the stresses of fouling better than non-reinforced ones.

The reinforced structure also tends to give a more uniform pore size and less pore swelling, which keeps filtration efficient and fouling resistance high.

TYPICAL SYSTEM FLOW



06 OPERATING CONDITIONS

Operating envelope

OPERATING CONDITIONS

PARAMETER	VALUE
Maximum applied feed pressure	**0.5 MPa (73 psi)**
Maximum TMP	**0.2 MPa (30 psi)**
Backwash pressure	**0.2 MPa (30 psi)**
Operating temperature	**5–40 °C**
Operating pH range	**2–10**
Operation mode	**Dead-end or cross flow, interval or continuous air scouring**
CIP chlorine concentration	**1,000–3,000 ppm**

CLEANING AND BACKWASH

PARAMETER	VALUE
Backwash flux	**1.5 to 2.5 times the filtration flux**
Backwash duration	**30–120 seconds**
Backwash air flow	**10–20 Nm^3/h per module**
Backwash frequency	**15–60 minutes**
CEB frequency	**At least once a day**
CEB duration	**2–20 minutes**
Chemical cleaning	**NaOCl or H_2O_2, NaOH, HCl, citric acid or oxalic acid**

07 SALIENT FEATURES

Built to hold up in fouling-heavy water

Reinforced PVDF capillary ultrafiltration modules from 25 to 75 m², for pressurised systems in fouling-heavy water.

Robust c-TIPS membrane

High crystallinity gives strong chemical resistance, good mechanical properties and a long life.

Reinforced fibres

Reinforcement withstands fouling stress and gives more uniform pore size with less swelling.

Permanently hydrophilic

The membrane keeps its hydrophilicity, so the flow rate stays consistent.

Oxidation-inert

The reinforced PVDF tolerates a higher concentration of oxidising agent for thorough cleaning.

Soft potting

A soft layer protects the roots of the capillaries, the weakest part of a module.

Low pressure, low energy

The module is designed to run at pressures as low as 0.02 MPa (3.0 psi).

08 APPLICATIONS

1 **Wastewater treatment**
Suited to wastewater where both mechanical robustness and high separation performance are required.

09 WHY SRP

- Strong fibres for fouling-heavy water.
- Easy to operate, with simple cleaning and low chemical use.
- Consistent flow rate over long periods.







SRP Membranes

REMEMBER THE FUTURE

Specify ULTRAFLO 4000 for your UF system

New build, retrofit or membrane replacement. Share your flow, feed water and layout, and we will recommend the product, configuration and design.

EMAIL
crm@srpepl.com

PHONE
+91 98759 55948
+91 98759 55949

WEB
www.srpmembranes.com

Head Office
70, Industrial Area, Phase-I, Panchkula, Haryana, India-134113

International Office
Saif Office Q1-06-026/B, P.O. Box 513994, Sharjah – U.A.E.