SRP Membranes

SR PARYAVARAN · A DIVISION

PRODUCT CATALOGUE

SRP ULTRAFLO 3000 SERIES

ULTRAFLO
3000 SERIES

THE MEMBRANE OF THE FUTURE

Ultrafiltration Membrane Outside-In with Air Scouring

PVDF capillary UF modules for water and wastewater.



PRODUCT CATALOGUE · 2026

SRP Ultraflo 3000 Series

www.srpmembranes.com

www.srpepl.com

01 PRODUCT OVERVIEW

Product description & technical information

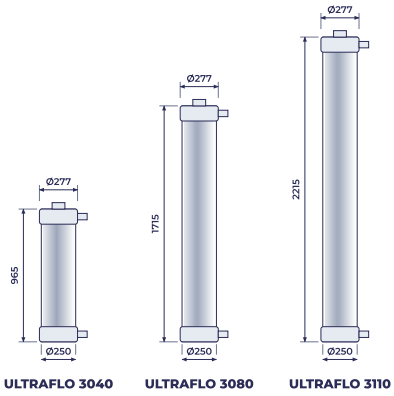
PRODUCT DESCRIPTION	
Membrane material	PVDF
Membrane configuration	Capillary
Nominal pore size	0.03 µm
Potting material	Epoxy

TECHNICAL INFORMATION	
Housing material	PVC/ABS
Membrane ID / OD	0.7 mm / 1.3 mm
Preservative	Glycerin (35%)
Typical filtrate flux	40–100 L/m²h

Figures are taken from the SRP ULTRAFLO 3000 datasheet. Specifications may change as improvements are made.

02 DIMENSIONS

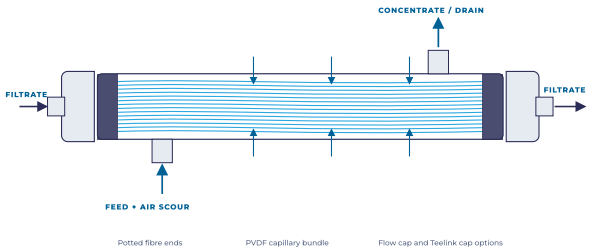
GENERAL ARRANGEMENT



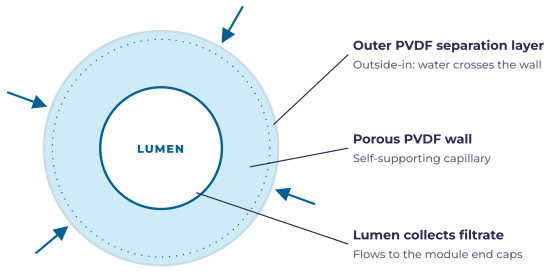
Body Ø250 mm and end cap Ø277 mm for all modules. Dimensions D, E, F, G and H are in the dimension table below. Letters follow the dimension drawing in the datasheet.

03 MEMBRANE ILLUSTRATIONS

UF MODULE



FIBRE WALL



Capillary fibre, magnified cross-section



04 MODEL SPECIFICATIONS

Models and specifications

MODULE DIMENSIONS: STANDARD END CAP

MODULE	Area (m²)	A (mm)	B (mm)	C (mm)	D (Ø mm)	E (mm)	F (Ø mm)	G (mm)	H (mm)
SRP ULTRAFLO 3040	40	850	750	965	250	172	277	40	75
SRP ULTRAFLO 3080	80	1600	1500	1715	250	172	277	40	75
SRP ULTRAFLO 3110	110	2100	2000	2215	250	172	277	40	75

MODULE DIMENSIONS: TEELINK END CAP (SPECIALISED)

MODULE	Area (m²)	A (mm)	B (mm)	C (mm)	D (Ø mm)	E (mm)	F (Ø mm)	G (mm)	H (mm)
SRP ULTRAFLO 3040	40	860	750	965	250	161	277	40	65
SRP ULTRAFLO 3080	80	1610	1500	1715	250	161	277	40	65
SRP ULTRAFLO 3110	110	2110	2000	2215	250	161	277	40	65


SRP ULTRAFLO 3000

PVDF capillary
Material

0.03 µm
Pore

2–10
pH

40–110 m²
Module area

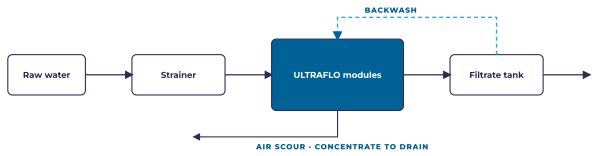
05 MEMBRANE STRUCTURE

Capillary UF for clean, steady filtrate

SRP ULTRAFLO 3000 modules hold PVDF capillary membranes with a 0.03 µm pore size in a PVC/ABS housing. Water flows from outside to inside the fibres, and air scouring keeps the surface clean.

The membrane is made by c-TIPS (complex thermally induced phase separation), which gives high crystallinity, strong chemical resistance and a long life. Cross-linking keeps it hydrophilic for good, so the flow rate stays consistent.

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

Steady flow, low pressure, simple upkeep

PVDF capillary ultrafiltration modules from 40 to 110 m², for pressurised systems with air scouring.

Fouling resistance
The membrane resists the build-up of substances on its surface that cut performance and life.

Robust c-TIPS membrane
High crystallinity gives strong chemical resistance, good mechanical properties and a long life.

Permanently hydrophilic
The membrane keeps its hydrophilicity, so the flow rate does not fall away over time.

Low pressure, low energy
The module is designed to run at pressures as low as 0.02 MPa (3.0 psi) and uses less energy than other separation methods.

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

Scalable
Modular design lets you scale the system up or down to suit the duty.

08 APPLICATIONS

1 **Drinking water**
Purifies drinking water from well and surface sources.

2 **Wastewater recycling**
Filters sewage and wastewater for recycling.

3 **RO and NF pre-treatment**
Treats surface water or seawater ahead of RO and NF systems.

09 WHY SRP

- Low operating pressure and energy use.
- Consistent flow rate over long periods.
- Easy to operate, with simple cleaning and low chemical use.







SRP Membranes

REMEMBER THE FUTURE

Specify ULTRAFLO 3000 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.

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