SRP Membranes

SR PARYAVARAN · A DIVISION

PRODUCT CATALOGUE

SRP AEROFLO SERIES

AEROFLO SERIES

THE MEMBRANE OF THE FUTURE

Submerged MBR Corrugated Modules

PVDF corrugated flat-sheet membranes for municipal and industrial MBR.



PRODUCT CATALOGUE · 2026

SRP Aeroflo Series

www.srpmembranes.com

www.srpepl.com

01 PRODUCT OVERVIEW

Product description & technical information

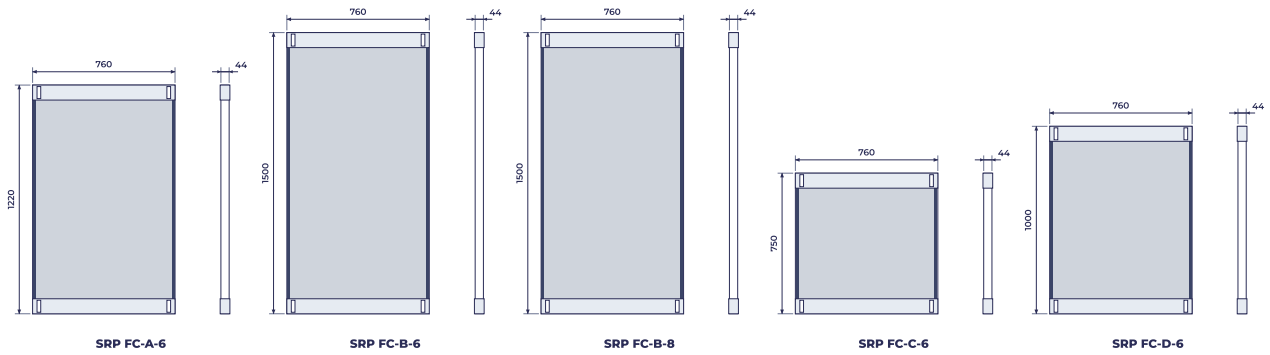
PRODUCT DESCRIPTION	
Membrane material	PVDF
Membrane configuration	Corrugated
Nominal pore size	0.1 µm*

TECHNICAL INFORMATION	
Backwash flux	15–30 L/m²h
CIP frequency	Variable
Chemical cleaning	NaOCl / citric acid

Figures are taken from the SRP AEROFLO datasheet. *Filtration degree can be changed on client request. Specifications may change as improvements are made.

02 DIMENSIONS

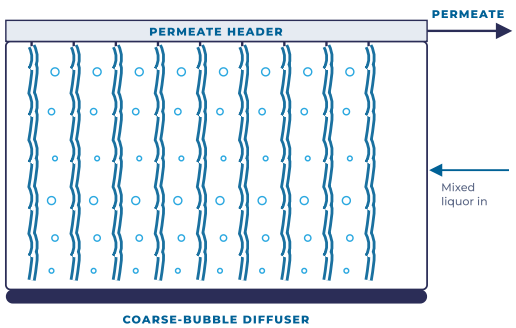
GENERAL ARRANGEMENT



From the datasheet dimensions (L × W × H). L is drawn as the height of the module and H as its thickness. Drawings are for reference.

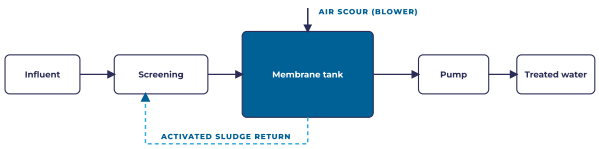
03 MEMBRANE ILLUSTRATIONS

CORRUGATED SHEET CASSETTE



Corrugated PVDF sheets in a cassette, sectional view

MBR PROCESS





04 MODEL SPECIFICATIONS

Models and specifications

MODULE	FC-A-6	FC-B-6	FC-B-8	FC-C-6	FC-D-6
Surface area (m²)	9	11	15	5	7
Leaves per element	6	6	8	6	6
Dimensions L × W × H (mm)	1220 × 760 × 44	1500 × 760 × 44	1500 × 760 × 44	750 × 760 × 44	1000 × 760 × 44
Dry weight (kg)	7	8.1	9.6	5	7.4
Wet weight (kg)	11	13	15	8	10



Corrugated PVDF
Material

0.1 µm*
Pore

6–9
pH

5–15 m²
Module area

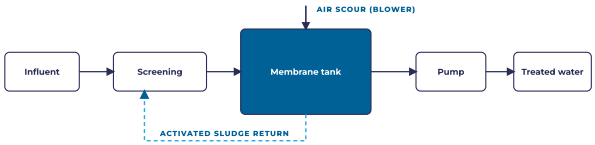
05 MEMBRANE STRUCTURE

Flat sheet performance with a corrugated surface

SRP AEROFLO flat sheet membranes are potted to combine the advantages of flat sheet and hollow fibre designs. The potting technique improves durability and allows higher flux while keeping the structure intact.

The PVDF membrane has a wavy surface and sits on a polyethylene terephthalate (PET) board. The board forms an independent channel system that collects and carries the permeate. Each 1.6 mm membrane unit weighs 0.84 kg per square metre, which saves weight and material.

TYPICAL SYSTEM FLOW



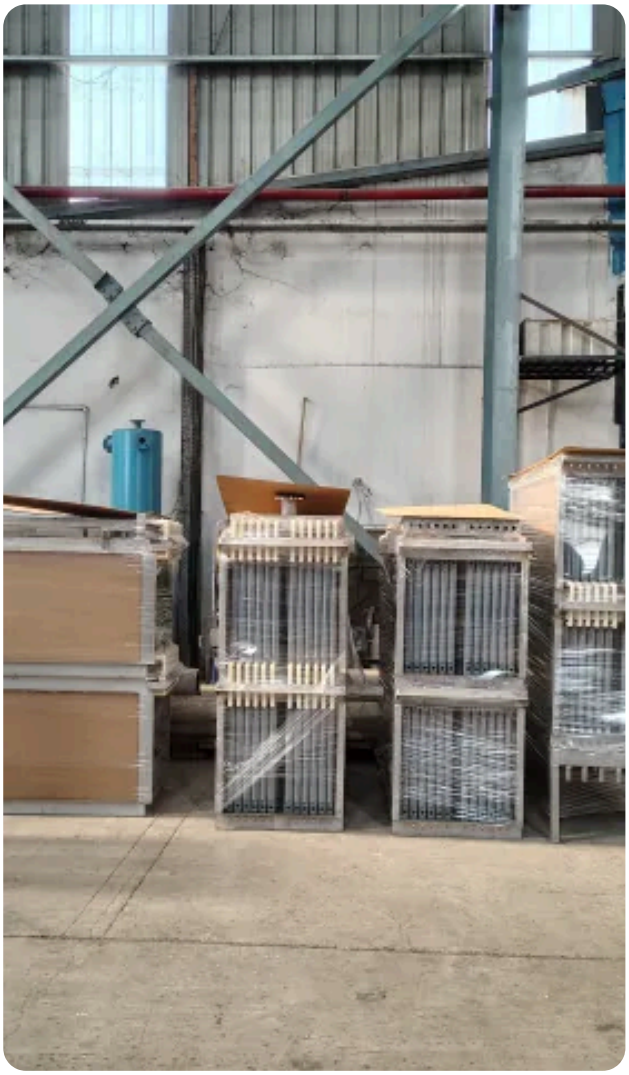


06 OPERATING CONDITIONS

Operating envelope

OPERATING CONDITIONS

PARAMETER	VALUE
Mode of filtration	**Negative suction**
Ultimate TMP	**60 kPa**
Maximum TMP	**35 kPa**
Temperature range	**5–35 °C**
pH range for cleaning	**2–11**
pH range for operation	**6–9**
MLSS range	**6,000–15,000 mg/L**
Backwash pressure	**< 40 kPa**



07 SALIENT FEATURES

Built for load, fouling and energy

Corrugated PVDF flat sheet membrane modules from 5 to 15 m², built for efficient, low-energy biological treatment.

Twice the load capacity

The corrugated design carries twice the load of a conventional flat membrane, so it supports higher pressures and volumes.

Anti-fouling surface

The corrugations create local turbulence on the membrane surface, which keeps sludge and pollutants from sticking.

10–15% energy saving

The structure lowers resistance and improves filtration dynamics, saving 10–15% energy compared with traditional flat membranes.

High loading density

A larger filtration area fits in the same space, which gives more water per tank and suits expansion of existing plants.

Modular and flexible

You can change the number of membrane elements and unit layers to match the duty, and maintenance is simple.

Fits existing systems

The module integrates with existing systems without modification, at a lower cost than conventional flat membranes.

08 APPLICATIONS

1 **Municipal wastewater**
Upgrades existing plants, handles high volumes and cuts energy use while meeting discharge standards.

2 **Industrial effluent**
Suited to industries with strict discharge limits, against chemical and physical contaminants.

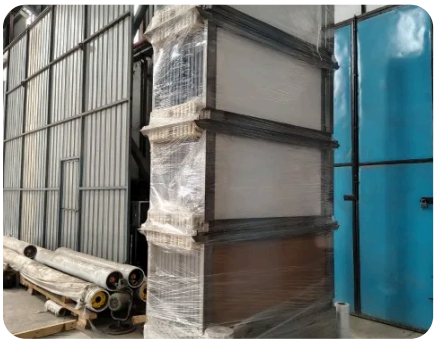
3 **Desalination pre-treatment**
Pre-treats seawater to reduce fouling and extend the life of downstream membranes.

4 **Food and beverage**
Filters water for reuse in production, which supports hygiene and lowers running cost.

5 **Water reclamation**
Treats greywater and other non-potable sources for reuse.

09 WHY SRP

- Lower energy use than traditional flat membranes.
- Higher loading density for expansion of existing systems.
- Works with existing systems without modification.







SRP Membranes

REMEMBER THE FUTURE

Specify AEROFLO for your MBR

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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