

TW Ultrafiltration Membranes STREAM series





Membranes Made in India for India

Ultrafiltration (UF) is a pressure-driven membrane based separation process to remove suspended solids, bacteria, viruses, endotoxins and other pathogens to produce water with very high purity and low silt density.

Merits of Theway UF Membranes

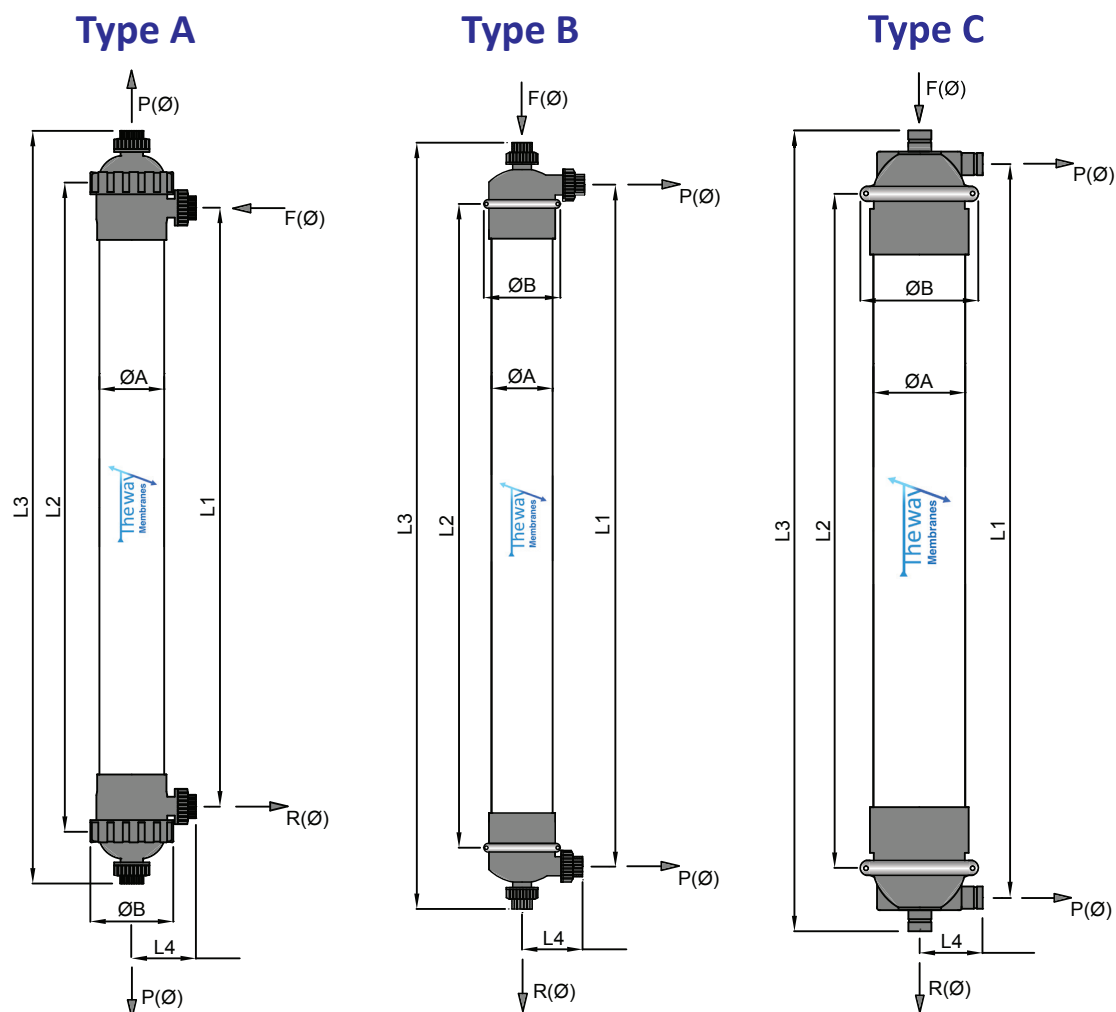
- Increased flux
- Increased Hydrophilicity
- Exceptional service life
- Higher resistance to fouling
- Higher resistance to scaling
- Lower pressure requirement
- Wide range of MWCOs
- Superior mechanical strength
- Finer and sharper pore size distribution
- Premium chemical resistance

Why Theway membranes?

- Made in India
- Ready availability
- Excellent after sales service and support
- Customisable membranes to replace existing membranes (One-to-one replacement possible)
- Over 300 existing satisfied customers
- Unrivalled pricing



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Model No. STREAM Series	Membrane Area (m ²)	Type	ØA (mm)	ØB (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	Feed (ØF) (mm)	Permeate (ØP) (mm)	Reject (ØR) (mm)
TW90/1100	8	A	90	114	1020	1100	1224	113	32	32	32
TW90/1650	12		90	114	1570	1650	1774	113	32	32	32
TW160/1100	20	B	160	234	1188	1100	1412	157	40	40	40
TW160/1650	35		160	234	1738	1650	1962	157	40	40	40
TW200/1100	40	A	200	240	956	1100	1370	186	50	50	50
TW200/1650	60		200	240	1506	1650	1920	186	50	50	50
TW250/1100	55	C	250	337	1224	1100	1414	174	60	60	60
TW250/1650	80		250	337	1774	1650	1964	174	60	60	60
TW315/1100	95	C	315	370	1266	1100	1490	230	75	75	75
TW315/1650	145		315	370	1816	1650	2040	230	75	75	75



Operating and Performance characteristics

Operating pressure, bar	< 3
Trans-membrane pressure, bar	~ 2
Operating pH	1 to 13
Operating temperature, °C	20 to 70
Filtration mode	Cross flow
Filtrate flux, L/m ² /h	50 to 100

Membrane characteristics

Potting Material	Epoxy resin
Module Preservation	Wet
Material of construction (module)	uPVC

Module information

Membrane Type	Hollow Fiber
Membrane Polymer	PES(Standard)/PVDF/PS
Molecular Weight Cut-Off , Kda	100(Standard)/67/50/20
Size of fiber, mm	1.4 OD x 0.8 ID

Operation philosophy

Filtration period, min	15 – 60
Backwash time, sec	20 – 60
Backwash interval, min	15 – 60
Flushing time, sec	20 – 60
Flushing interval, min	15 – 60
Chemical cleaning interval, day	1
Chemical cleaning time, min	1 min CEB1 15 mins choking 1 min CEB2 15 mins flushing

Backwash information

Backwash flux, L/m ² /h	100 to 300
Backwash pressure, bar	2 maximum

Optional

Air scouring	0.1 - 0.15 m ³ /hr/m ² membrane area
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