



UF Membranes



ISO 9001:2000

Description

Ultrafiltration (UF) is a separation process using membranes with pore sizes in the range of 0.1 to 0.001 micron. The Burton, UF membranes removes high molecular-weight substances, colloidal materials, and organic and inorganic polymeric molecules. With only high-molecular weight contaminants removed, the osmotic pressure differential across the UF Membrane surface is negligible. Low applied pressures are therefore sufficient to achieve high flux rates from the Burton Ultrafiltration membrane.

Features

- ▶ High Hydrophilicity
- ▶ Higher Design Flux
- ▶ High Chemical & Mechanical resistance
- ▶ High Fouling resistance
- ▶ Wide Range of MWCO
- ▶ High Chlorine tolerance
- ▶ High durability, during clean & safe treatment process
- ▶ Long Service life
- ▶ Wide application for drinking water, waste water recycling, sea water desalination, industrial and process application.

Applications

- ▶ Pre-treatment Filtration
 - Seawater Desalination Pretreatment
 - Pre-treatment to RO System
 - Pre-treatment to Nano filtration and Ion Exchange
- ▶ Water Purification
 - Surface water filtration, e.g. river water, run-off water
 - Municipal / Sewage treatment effluent reclamation
 - Industrial waste treatment effluent reclamation

Quality Assurance

The Burton UF membrane offers a comprehensive range of UF membrane module to suite the need of every customer. Hollow fiber of the Burton UF membrane is an asymmetric, in to out, semi permeable, and highly chemical resistance made up of special polymer membrane technology. Burton UF provides a secure barrier against suspended solids, micro organism and supplies consistently high quality of filtrate water. Optimum flow distribution, top notch purification efficiency, and variable operating modes even at low pressure ensure consistently high quality of permeate.

Technical Information

Model		HM40405	HM8060-25	HM1060-46
Performance	Initial Permeate Flow, M3/hr	1	5	11.5
	Design Flux, l/m2/hr	40-180	40-180	40-180
	Permeate Water turbidity, NTU	<0.1 (when feed water < 70 NTU)	<0.1 (when feed water < 70 NTU)	<0.1 (when feed water < 70 NTU)
	Permeate Water SDI	< 1 (when feed water < 25 NTU)	< 1 (when feed water < 25 NTU)	< 1 (when feed water < 25 NTU)
	Maximum continue chlorine, mg/1	70	70	70
	Maximum temporary chlorine, mg/1	200	200	200
Specification	Dimension,mm	Ø101x 1016	Ø242 x 1400	Ø323 x 1820
	Filter type	Inside-out hollow fibre	Inside-out hollow fibre	Inside-out hollow fibre
	Membrane material	PAN alloy	PAN alloy	PAN alloy
	Sealing material	Food grade epoxy resin	Food grade epoxy resin	Food grade epoxy resin
	MWCO, dalton	50000	50000	1,00,000
	Membrane area, m2	5	25	46
	Filter number	1100	7300	9800
	Filter ID & OD, mm	1.0/1.6	1.0/1.6	1.0/1.6
	Module Inlet and Outlet	D32/D25	D50/D50	2" victaulic
	Module perservation	Dry	Dry	Dry
	Temperature in storage & transportation	20 C-45°C	20 C-45°C	20 C-45°C
	Max air pressure testing for integrity, Mpa	<0.2	<0.2	<0.2
Working Condition	Maximum feed water pressure, Mpa	0.6	0.6	0.6
	Suggested trans-membrane pressure (TMP) Mpa	<0.1	<0.1	<0.1
	Maximum TMP, Mpa	<0.2	<0.2	<0.2
	Maximum backwash, TMP, Mpa	<0.15	<0.15	<0.15
	Working temperature	5 C -40°C	5 C -40°C	5 C -40°C
	pH	2-10	2-10	2-10
	Working process	Cross-flow or Dead end	Cross-flow or Dead end	Cross-flow or Dead end
Recommended Operation	Backwash Flow, m3/H	2	5	10
	Backwash Pressure, Mpa	0.05-0.1	0.05-0.1	0.05-0.1
	Backwash time, sec	40-60	40-60	40-60
	Backwash interval minute	40-300	40-300	40-300
	Flushing time, sec	40-60	40-60	40-60
	flushing interval, minute	40-300	40-300	40-300
	Chemical cleaning interval, day	15-200	15-200	15-200
	Chemical cleaning time, minute	30-120	30-120	30-120

Marketed by: **AVENTURA COMPONENTS PVT. LTD.**

 | AN EARTH WATER ENTERPRISE

A-1/152, Neb Sarai, IGNOU Road, New Delhi - 110 068, INDIA
T: +91-11-4310 0553/541 | F: +91-11-4310 0599 | M: +91-97176 90522
E: marketing@aventura.co.in | W: www.aventura.co.in

Present at: • Ahmedabad • Bengaluru • Chennai
• Hyderabad • Kolkata • Mumbai • Pune

Our Partner

Version: AC02/09/12