



Ultra Filtration 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 series of UF membranes is a hollow-fiber inside-out membrane capable of removing high molecular-weight substances, colloidal materials, and organic and inorganic polymeric molecules. Burton UF membrane is made of PAN alloy, which has high hydrophilicity ensuring excellent cleanability.

Features

- ▶ PAN alloy membranes
- ▶ High hydrophilicity
- ▶ Higher design flux
- ▶ High chemical & mechanical resistance
- ▶ High fouling resistance
- ▶ High resistance to organic contamination
- ▶ Wide range of MWCO
- ▶ High chlorine tolerance
- ▶ Cross flow design
- ▶ Long Service life
- ▶ Low pressure

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

Technical Information

Model		HM4040-5	HM8060-25	HM1060-46
Performance	Maximum Initial Permeate Flow, m ³ /hr	0.6	3	5.5
	Design Flux, l/m ² /hr	40-120	40-120	40-120
	Permeate Water turbidity, NTU	< 1 NTU (when feed water < 70 NTU)	< 1 NTU (when feed water < 70 NTU)	< 1 NTU (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 Continuous Chlorine, mg/l	70	70	70
	Maximum Temporary Chlorine, mg/l	200	200	200
Specification	Dimension, mm	Ø101x 1016	Ø242 x 1400	Ø323 x 1820
	Filter Type	Inside-out hollow fiber	Inside-out hollow fiber	Inside-out hollow fiber
	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, m ²	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
	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	Cross-flow	Cross-flow
Recommended Operation	Backwash Flow, m ³ /hr	1.2	6	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	20-300	20-300	20-300
	Flushing Time, sec	40-60	40-60	40-60
	Flushing Interval, minute	10-300	10-300	10-300
	Chemical Cleaning Interval, day	15-200	15-200	15-200
	Chemical Cleaning time, minute	30-120	30-120	30-120

Disclaimer:

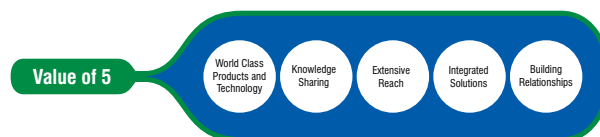
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Marketed by: **AVENTURA COMPONENTS PVT. LTD.**

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