MANFORDA

Product Data /GX Series Pressure PES UF

MANFORDA® M-AFFLUX® GX40 UF

Open Module Design

Product Technical Characteristics

The GX series features an innovative PES hollow fiber membrane filament resistance technology:

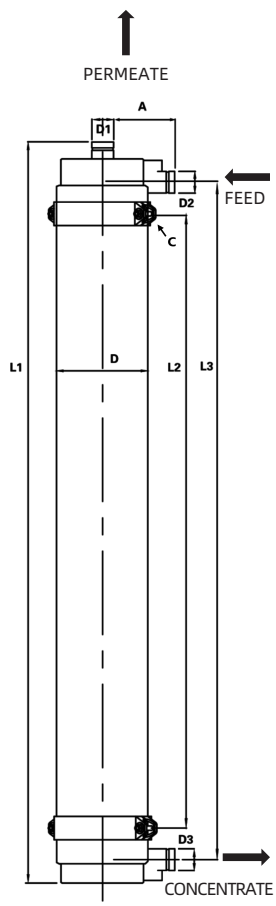
- Optimized physical strength and antioxidant capacity
- Stable filtration performance
- It has a high removal rate of colloidal particles, bacteria and viruses
- Easy to clean and restore performance
- Open design, easy installation, low maintenance cost, and can be matched with the existing racks at the customer's site
- Excellent penetration performance and long service life

Main Application Fields

- Industrial process water treatment
- Reuse of industrial wastewater
- Municipal sewage treatment
- Pretreatment of reverse osmosis
- Boiler water treatment
- Cooling water treatment
- Wastewater treatment
- Reclaimed water reuse
- Zero discharge of liquid
- Desalination of seawater
- High-salt wastewater

Technical Specifications Of Membrane Modules

Filtering Method		Inside-out
Membrane Type		Hollow Fiber
Membra n e Material		PES
Nominal Membrane Pore Size		0.02um
Membrane Module Operation Mode		Full-Flow /Cross-Flow
Other Wetting Mod u le Components		PU, uPVC, EPDM, ABS
Effective M embrane Area	40m²	431ft²
Total Length(L1)	1,903±3.0mm	74.2±0.1inch
Length(L2)	1,537.5±1.5mm	60.5±0.1inch
Length(L3)	1,745±1.5mm	69±0.1inch
Membrane Module Diameter(D)	220mm	8.66inch
Width(A)	166mm	6.5inch
Width(C)	315mm	12.4inch
Feed/Filtrate Interface	73mm	2.5inch
Transportation Weight	30kg	66lbs.
Empt y Weight	30kg	66lbs.
Full Water Weight	67kg	147lbs.
Water Filling Volume	21L	5.6gal



Operating Technical Conditions

Parameters	Numerical Value	
Operating Temperature Range	1-40°C	34-104°F
Run pH	2-11	
Cleaning pH	2-12	
RUN TMP	0.1-0.6 bar	1.5-8.7 psi
BW TMP	0.3 -2.0 bar	4.4-29.0 psi
BW Method	Water BW	
BW Flux	230 L/(m^2h)	135 gfd
BW Flow	9.2m^3/h	40.5 gpm
Rate Temperature Change	5 °C/min	9 °F/min
Max. Inlet Water	6.25 bar (at 20 °C)	90.7 psi
Max Filter TMP	1.5 bar	22psi
BW FlowTMP	3.0 bar	44 psi
Max. Flux	180 L/(m^2h)	106 gfd
Max. Fluw	7.2m^3/h	31.7gpm
Max. BW Flux	300 L/(m^2h)	176 gfd
Max. SIZE	300 μm	
Max. NaOCL	≤250,000 ppm xh（at pH≥10）	
Max. NaOCL CO	500 ppm	

General Information

- Once the membrane element is wetted, it should always remain moist
- If the user does not strictly follow the operation limits and guidelines set in this specification, the limited warranty will become invalid
- When the system is shut down for a long time, to prevent the growth of microorganisms, it is recommended to immerse the membrane elements in a protective solution
- Users shall be fully responsible for the impact on components caused by the use of incompatible chemicals and lubricants At all times, water shock/air hammer should be avoided during the storage of membrane elements
- For more information or if you have any questions, please contact MANFORDA

Membrane Element Storage

- The new membrane modules can be stored either as supplied or in their original packaging.
- The membrane module contains a water preservation solution of glycerol (20wt%) and sodium sulfite (lwt%) to prevent dehydration and control bacterial growth. The membrane module is packaged in a vacuum-sealed plastic bag to maintain the moisture inside the module. Components should be stored in a dry, well-ventilated place, away from fire sources and direct sunlight. The storage temperature should be between 0 and 40℃. At all times, comply with MANFORDA's instructions on transportation and storage, and can be provided upon request. It is recommended to install the membrane module into use as soon as possible.
- The storage period of the membrane is up to 48 months, calculated from the date when the component is announced to be ready for delivery to the MANFORDA warehouse. All guarantee letters are invalid after the expiration of the shelf life.
- For detailed information, please refer to the MANFORDA warranty document.

Official Wechat　Official Websit

MANFORDA