



Ultra⁶⁰ Ultrafiltration Modules

DESCRIPTION

The **Ultra⁶⁰ Ultrafiltration (UF) Modules** are designed for municipal and industrial applications, including RO pretreatment. The Pall Aria™ systems incorporating Ultra⁶⁰ modules can replace conventional upstream operations such as flocculation, settling, and granular media filtration.

The modules provide consistent high-quality effluent, independent of incoming raw water quality without the use of coagulating chemicals, typically achieving a SDI of < 2 – 3 and a turbidity of < 0.08 NTU. These robust Aria™ systems have a comparatively small footprint, are modular in design, and are fully automated.

APPLICATIONS

Ultra⁶⁰ module systems are designed to optimize the performance and extend the life of RO membranes and treat incoming or waste waters including:

- Drinking water
- Desalination pre-treatment
- Water reuse
- Boiler feed
- Cooling tower make-up
- Cooling tower blowdown
- Discharge water

FEATURES

- **Hollow fiber construction** membrane for removal of particles, bacteria, viruses, and for reduction of turbidity.
- PVDF membrane **resistant to oxidizing** agents.
- Filtration from outside fiber to inside of fiber:
 - **Increased surface area** per module for excellent throughput, resulting in compact systems, and exceptional tolerance for high contaminant levels.
 - Removal of foulants by periodic air-scouring and permeate back flushing
 - Minimum prefiltration required (e.g., 200 µm self-cleaning strainers for removal of tramp solids).
- **Low operating costs**
 - By providing high quality RO prefiltration, the time between RO membrane cleaning is greatly extended. This results in **reduced downtime and chemical / disposal costs**.
 - **High water recovery** rates minimize cost per volume of water produced.

OPERATING PARAMETER DIMENSIONS

PERFORMANCE

Process Capacity Typical Range	2.2 – 10.0 m ³ /h / 10 – 44 gpm
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SPECIFICATIONS

Membrane Area	60 m ²
Molecular Weight Cut Off	150 kDa
Nominal Pore Size	0.01 μm

OPERATING CONDITIONS

Max. Operating Temperature	40°C
Max. Transmembrane Pressure	3 bar
Max. Inlet Pressure	3 bar
pH Range (Short Term for Cleaning)	1 – 12

MATERIALS

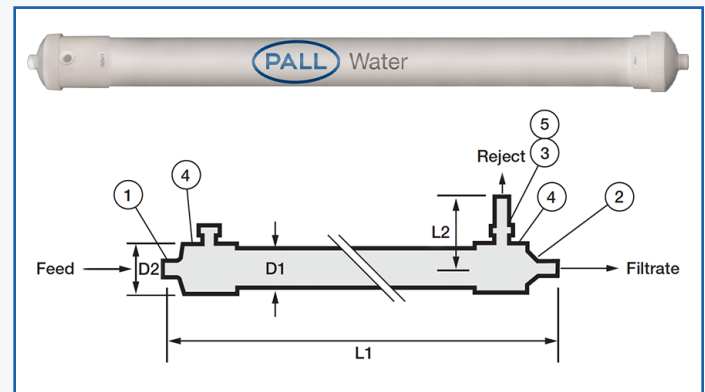
Membrane	PVDF
Housing	PVC Resin
Potting Material	Epoxy

PART NO. / ORDERING / DIMENSIONS

Model Part Number	MSA-620A
Length (L1)	2332 mm / 91.8 in
Length (L2)	150 mm / 5.9 in
Diameter (D1)	178 mm / 7.0 in
Diameter (D2)	220 mm / 8.7 in

ACCESSORIES & SPARE PARTS

ITEM:	MATERIAL:
1. Adapter Feed Connection	PVC
2. Adapter Permeate Connection	PVC
3. Adapter Reject Connection	PVC
4. O-Ring for Feed & Permeate	EPDM
5. Gasket Reject Connection Adapter	EPDM



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