

## Ultra<sup>60</sup> Ultrafiltration Modules

### Description

The Ultra<sup>60</sup> ultrafiltration (UF) modules from Aria Filtra™ are designed for municipal and industrial applications, including reverse osmosis (RO) pretreatment. The Aria Filtra systems incorporating Ultra<sup>60</sup> modules can replace conventional upstream operations such as flocculation, settling, and granular media filtration.

The modules provide consistently high-quality effluent, independent of incoming raw water quality, without the use of coagulating chemicals, typically achieving a silt density index of less than 2 to 3 and a turbidity of less than 0.08 NTU. These robust systems have a comparatively small footprint, are modular in design, and are fully automated.

### Applications

Ultra<sup>60</sup> module systems are designed to optimize the performance and extend the life of RO membranes and treat incoming or wastewaters, including:

- Drinking water
- Desalination pretreatment
- 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
- Polyvinylidene fluoride (PVDF) membrane resistant to oxidizing agents
- Filtration from outside of 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 micron [µm] self-cleaning strainers for removal of tramp solids)
- Low operating costs
  - High-quality RO prefiltration to extend time between RO membrane cleanings, reducing downtime and chemical / disposal costs
  - High water recovery rates, minimizing cost per volume of water produced

## OPERATING PARAMETERS

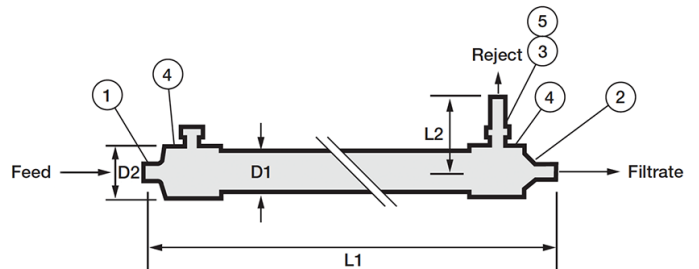
PERFORMANCE	
<b>Process capacity typical range</b>	2.2 to 10.0 m <sup>3</sup> /h (10 to 44 gpm)
SPECIFICATIONS	
<b>Membrane area</b>	60 m <sup>2</sup>
<b>Molecular weight cutoff</b>	150 kDa
<b>Nominal pore size</b>	0.01µm
OPERATING CONDITIONS	
<b>Max. operating temperature</b>	40°C
<b>Max. transmembrane pressure</b>	3 bar
<b>Max. inlet pressure</b>	3 bar
<b>pH range (short term for cleaning)</b>	1-10
MATERIALS	
<b>Membrane</b>	PVDF
<b>Housing</b>	PVC resin
<b>Potting material</b>	Epoxy

## PART NO. / ORDERING INFORMATION

<b>Model part number</b>	MSA-620A
<b>Length (L1)</b>	2,332 mm (91.8 in.)
<b>Length (L2)</b>	150 mm (5.9 in.)
<b>Diameter (D1)</b>	178 mm (7.0 in.)
<b>Diameter (D2)</b>	220 mm (8.7 in.)

## ACCESSORIES AND SPARE PARTS

ITEM	MATERIAL
<b>1. Adapter feed connection</b>	PVC
<b>2. Adapter permeate connection</b>	PVC
<b>3. Adapter reject connection</b>	PVC
<b>4. O-ring for feed and permeate</b>	EPDM
<b>5. Gasket reject connection adapter</b>	EPDM



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Aria Filtra, a division of Trojan Technologies, is the filtration partner of choice for municipal and industrial customers that need reliable access to consistent, high-quality water. With more than two billion gallons of installed capacity spanning six continents, Aria Filtra has the process expertise, proven technology, and intelligent systems that customers trust to reliably tackle their most complex water treatment challenges. Featuring industry-leading durability, reliability, and ease of operations, our broad portfolio of solutions ensures mission-critical functions continue to work as needed, day in, day out, for years to come. Learn more at [AriaFiltr.com](https://AriaFiltr.com).

Because of technological developments related to the products, systems, and/or services described herein, the data and procedures are subject to change without notice. Please consult your local representative to verify that this information remains valid.

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