



Microza^{*} Hollow Fiber UNA Modules

DESCRIPTION

The **UNA Series** (hollow fiber filtration) modules are designed for reverse osmosis (RO) pretreatment applications. Aria™ systems incorporating UNA 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. They may be easily incorporated into the existing DI water infrastructure.

*Microza is a trademark of Asahi Kasei Corporation.

APPLICATIONS

Microza UNA module systems are designed to optimize the performance and extend the life of RO membranes.

FEATURES

- **Hollow fiber construction** with 0.1 µm rated membrane for removal of particles, bacteria, colloidal silica and for reduction of turbidity.
- PVDF membrane **resistant to oxidizing agents**.
- Filtration from outside fiber to inside of fiber:
 - **Large surface area** per module for excellent throughput, resulting in compact systems, and exceptional tolerance for high contaminant levels.
 - **Removal of foulants** by unique and periodic air-scouring combined with permeate back flushing.
 - **Minimum prefiltration** required (e.g., 400 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** (typically up to 95% – 98%) minimize cost per volume of water produced.

OPERATING PARAMETERS

PERFORMANCE**

| | |
|---------------------------------------|---|
| Process Capacity Typical Range | 2.2 – 6.8 m ³ /h / 10 – 30 gpm |
|---------------------------------------|---|

DIMENSIONS

| | |
|----------------------|---|
| Membrane Area | 50 m ² / 538 ft ² |
|----------------------|---|

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|----------------------|-----------------|
| Module Length | 2160 mm / 85 in |
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|------------------------|-----------------|
| Module Diameter | 165 mm / 6.5 in |
|------------------------|-----------------|

OPERATING CONDITIONS

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|-----------------------------------|--------------|
| Max. Operating Temperature | 40°C / 104°F |
|-----------------------------------|--------------|

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|------------------------------------|----------------|
| Max. Transmembrane Pressure | 3 bar / 45 psi |
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|----------------------------|----------------|
| Max. Inlet Pressure | 4 bar / 58 psi |
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|-----------------|--------|
| pH Range | 1 – 10 |
|-----------------|--------|

MATERIALS

| | |
|-----------------|------|
| Membrane | PVDF |
|-----------------|------|

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|----------------|-----|
| Housing | ABS |
|----------------|-----|

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|-------------------------|--------------|
| Potting Material | Polyurethane |
|-------------------------|--------------|

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|----------------|----------|
| Gaskets | Silicone |
|----------------|----------|

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|---------------------|----------------------|
| Preservative | 40% calcium chloride |
|---------------------|----------------------|

**Please contact Pall Water for operating manual and system sizing, as capacity per module is dependent on feed water quality, temperature and other factors.

Unit conversion: 1 bar = 100 kilopascals

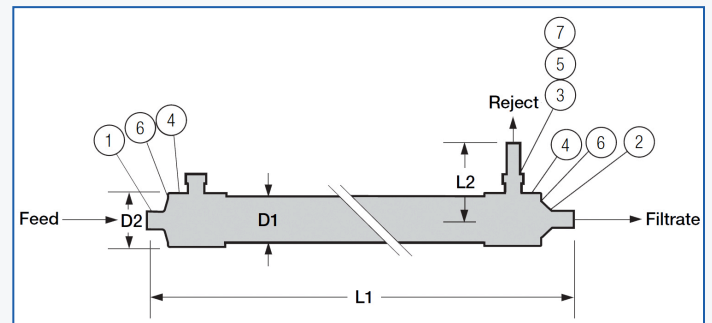
PART NO. / ORDERING INFORMATION

| | |
|--------------------------|------------------|
| Model Part Number | UNA-620A |
| Length (L1) | 2364 mm / 93 in |
| Length (L2) | 272 mm / 10.7 in |
| Diameter (D1) | 165 mm / 6.5 in |
| Diameter (D2) | 221 mm / 8.7 in |

ACCESSORIES & SPARE PARTS

| ITEM: | MATERIAL: |
|---|-------------|
| 1. Adapter Feed Connection | 304 SS |
| 2. Adapter Permeate Connection | PVC |
| 3. Adapter Reject Connection | PVC |
| 4. Cap Nut Feed & Permeate Connections | AS (20% GF) |
| 5. Nut Reject Connection | PVC |
| 6. O-Ring for Feed & Permeate Adapter | Silicone |
| 7. Gasket Reject Connection | Silicone |

Note: The information provided in this literature was reviewed for accuracy at the time of publication. Product specifications may be subject to change without notice. For current information, consult your local Pall Water distributor or contact Pall Water directly.



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