

Pall Aria™ LT Series

Compact Membrane Filtration Units for Drinking Water Treatment

Description

Pall Aria LT series units are compact, ready to operate, membrane filtration systems specifically designed for Low Turbidity applications including:

- Small decentralized water supply systems
- Polishing of industrial or process waters

Pall Aria LT series units are equipped with modules containing hollow fiber membranes. These modules are made of high crystalline polyvinylidene fluoride (PVDF) and are designed for high mechanical and chemical resistance and for long life expectancy. Pall Aria LT systems remove a wide range of water contaminants from a variety of water sources including:

- Suspended Solids/Turbidity
- *Giardia* cysts and *Cryptosporidium* oocysts
- Bacteria
- Viruses
- Oxidized Iron and Manganese

Pall Aria LT series units are available in 1 to 10 module configurations and can produce from 1 to 50 m³/hr (1 to 13,155 USgal/hr) of high quality drinking water.

Pall Aria LT series units operate in automatic mode, alternating from filtration to backwash.

Under normal operation no manpower and no use of chemicals is required.

Benefits

- Low Capital Cost
- Quick, cost-effective installation
- Small footprint for ease of integration in existing locations
- Consistent quality of treated water
- Reduced Operating Costs:
 - Easy to operate
 - Low maintenance
 - Low energy consumption (dead-end filtration)
 - Low chemical consumption
- Excellent cleanability
- Simple integrity test - no dismantling of modules required



Pall Aria LT4 Unit
with CIP Station

Technical Specifications

Units

Reference	LT 1	LT 2	LT 4	LT 6	LT 8	LT 10
Number of modules	1	2	4	6	8	10
Maximum flow rate (m ³ /hr) / (USgal/hr)	5 / 1315	10 / 2641	18 / 4755	30 / 7925	40 / 10,461	50 / 13,155
Weight empty (kg) / (lb)	225 / 496	260 / 573	380 / 838	800 / 1763	850 / 1873	950 / 2094
Weight full of water (kg) / (lb)	335 / 739	390 / 860	650 / 1433	1500 / 3307	1600 / 3527	1750 / 3858
Dimensions L x W x H (mm)	1500 x 870 x 2700	1500 x 870 x 2700	1500 x 870 x 2700	3270 x 903 x 2678	3514 x 903 x 2678	3753 x 903 x 2678
Power supply	3 phase - 400 V - 50 Hz	3 phase - 400 V - 50 Hz	3 phase - 400 V - 50 Hz	3 phase - 400 V - 50 Hz	3 phase - 400 V - 50 Hz	3 phase - 400 V - 50 Hz
Raw water inlet (mm)	ND 25	ND 50	ND 50	ND 80	ND 80	ND 100
Treated water outlet (mm)	ND 25	ND 50	ND 50	ND 80	ND 80	ND 80
Drain outlet (mm)	ND 25	ND 50	ND 50	ND 80	ND 80	ND 80
Air inlet (mm)	ND 15	ND 15	ND 15	ND 32	ND 32	ND 32

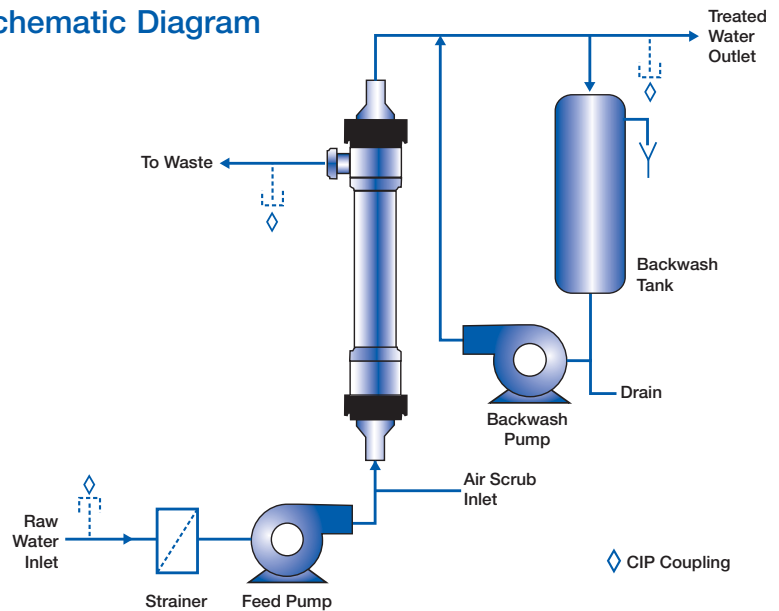
CIP Units

Reference	for LT 1	for LT 2	for LT 4	for LT 6	for LT 8	for LT 10
Overall dimensions L x W x H (mm)	800 x 800 x 1600	800 x 800 x 1600	800 x 800 x 1600	800 x 1061 x 2098	800 x 1061 x 2098	800 x 1061 x 2098
Weight empty (kg) / (lb)	50 / 110	50 / 110	80 / 176	150 / 331	150 / 331	150 / 331
Weight full of water (kg) / (lb)	220 / 485	220 / 485	330 / 728	650 / 1433	650 / 1433	650 / 1433
Power supply	3 phase - 400 V - 50 Hz	3 phase - 400 V - 50 Hz	3 phase - 400 V - 50 Hz	3 phase - 400 V - 50 Hz	3 phase - 400 V - 50 Hz	3 phase - 400 V - 50 Hz
Tap water inlet (mm)	ND 25	ND 25	ND 25	ND 25	ND 25	ND 25
Cleaning solution outlet to Unit (mm)	ND 32	ND 32	ND 32	ND 80	ND 80	ND 80
Cleaning solution return from Unit (mm)	ND 32	ND 32	ND 32	ND 50	ND 50	ND 50

The following options are available:

- **Air Compressor**
- **Feed Pump:**
Integrated VFD-driven feed pump in-lieu of inlet pressure head control.
- **Clean-in-Place (CIP) Station:**
Skid mounted unit for manual operation of CIP procedure equipped with tank, heating element, pump, set of manual valves and set of hoses for connection to Pall Aria LT unit.
- **Data Recording (Option 1):**
Analog instruments and data logger, measuring and recording feed temperature, feed pressure, filtrate pressure and filtrate flow.
- **Data Recording (Option 2):**
Data recording (Option 1) plus feed and filtrate turbidity measurement.

Schematic Diagram



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