

Low Pressure Reverse Osmosis System



LRO10



LRO100

Applications:

- Factories
- Aquaculture
- Food outlets
- Emergency / disaster relief efforts
- Rural communities

Reduces:

- Dissolved heavy metals
- Dissolved chemicals
- Salts
- Ionic impurities
- Organic impurities

Standard Features

- Low Pressure RO membranes (8040) cartridge skid mounted
- Electrical control panel and D.O.L / Frequency-Controller
- Feed and High Pressure pumps
- Guard filter
- Pressure gauges, flow meters and manual valves
- PVC and / or S/S piping
- Permeate TDS meter
- U740 Ultra-Filtration membranes skid mounted (optional)
- CIP system (optional)

LRO System & Operating Limit*

Recovery	65% ~ 80%
Operating temperature	< 40°C
Operating pressure	< 10 bar
Power requirement	400 V / 3 phase / 50 Hz
Energy consumption	approx. 0.5 kWh/m ³
Feed TDS range	3,000 ppm max.
Max. SDI (15 mins.)	< 3.0
pH range	5 - 9 (operating); 2 - 12 (CIP)
Feed max. turbidity	< 1.0 NTU
Chlorine concentration	< 0.1 ppm

*Subject to feed water condition

Membrane Specifications

Type	Thin Film Composite (TFC); Polyamide (PA)
Configuration	Spiral-wound, FRP wrapping
Membrane size	Diameter 8" x length 40"
Effective area	400 sq ft / membrane
Flow rate	~0.8 m ³ / hr / membrane

Note: Selection of membrane will depend on the application flow rate and the type of water