

ULTIMA

LP Series Commercial Reverse Osmosis Systems

The LP Reverse Osmosis System is an economical water treatment solution, which reduces operating and post-treatment costs. The LP Reverse Osmosis system helps you reduce maintenance costs by reducing contaminants from your water that affect taste and clog equipment. Control your installation costs by using a system configured for your unique needs. Keep your operating costs low with an easy-to-use electronic controller.



Benefits

- Pre-Plumbed, Wired and Assembled
- Easy Maintenance and Servicing
- Low Operational Cost
- Low Maintenance Cost

LP2000

Specifications

| Specification | LP-300 | LP-800 | LP-2000 |
|------------------------|----------------------|--------------------|-------------------|
| GPD | 300 | 800 | 2000 |
| LPM | 0.8 | 2.1 | 5.2 |
| Feed Water Pipe Size | 1/2" FIP | 1/2" FIP | 1/2" FIP |
| Outlet Pipe Size | 3/8" Compression | 3/8" Compression | 1/2" Compression |
| RO Membrane Size | (1) 2 1/2" x 21" TFC | (1) 4' x 21" TFC | (1) 4" x 40" TFC |
| Recovery Rate | Up To 50% | Up To 50% | Up To 60% |
| Motor HP | 0.5 | 0.5 | 0.75 |
| Volts / Hz | 110v or 220v/ 60Hz | 110v or 220v/ 60Hz | 110v or 220v/60Hz |
| Amps | 6 | 6 | 9 |
| Recycle Line | yes | yes | yes |
| Permeate Flow Meter | yes | yes | yes |
| Concentrate Flow Meter | yes | yes | yes |
| Recycle Flow Meter | no / optional | no / optional | no / optional |
| Low Pressure Switch | yes | yes | yes |
| Height, Length & Width | 37" x 20" x 18" | 37" x 20" x 18" | 59" x 26" x 18" |
| Pre-Filter Cartridge | SL 10 x 2.5-5mic | SL 10 x 2.5-5mic | SL 10 x 2.5 5mic |

Operating Limit

| | |
|--|-------------|
| Maximum Water Feed Temperature F° (C°) | 85 (29.00) |
| Minimum Water Feed Temperature F° (C°) | 40 (4.44) |
| Maximum Ambient Temperature F° (C°) | 120 (48.89) |
| Minimum Ambient Temperature F° (C°) | 40 (4.44) |
| Maximum Feed Water Pressure psi (bar) | 85 (5.86) |
| Minimum Feed Water Pressure psi (bar) | 45 (3.10) |
| Maximum Operating Pressure psi (bar) | 150 (10.34) |
| Maximum SDI Rating | <3 |
| Maximum Turbidity NTU | 1 |
| Maximum Free Chlorine ppm | 0 |
| Maximum TDS ppm | 2000 |
| Maximum Water Hardness * | 0 |
| Maximum pH (Continuous) | 11 |
| Minimum pH (Continuous) | 5 |
| Maximum ph (Cleaning 30 min.) | 12 |
| Minimum ph (Cleaning 30 min.) | 2 |

Standard Features:

- Computer Controller with Permeate TDS Monitoring
- White Powder Coated Aluminum Frame
- 5 Micron Pre-Filter
- Rotary Vane Pump
- Low Energy TFC Membranes with Stainless Steel Housings
- Stainless Steel Feed Valve & Pump Pressure Gauges

Computer Controller Standard Features:

- 4 Line LCD Displays common sense information
- Inputs for pretreat lock out, low pressure and storage tank
- Pump delay, pump will never start dry
- 4 adjustable program cycles via USB cable

Optional Features:

- Fiberglass Membrane Housings
- Concentrate Recycle Valve & Flow Meter
- Feed Water TDS Conductivity Probe
- Feed Water Flush Valve
- Stainless Steel Pump
- High Pressure Tank Switch
- Permeate Sample Port
- TDS Blending Valve
- Optional Voltage Motors Available

Test Parameters: 550 TDS Filtered (5 micron), De-Chlorinated, Municipal Feed Water, 65 psi (4.5 bar) Feed Pressure, 100 psi (6.89 bar) Operating Pressure, 77° F (25° C), Recovery as stated, 7.0 pH. Data taken after 60 minutes of operation.

Low temperatures and high TDS levels will significantly affect the system's production capabilities. Computer projections should be run for individual applications which do not meet or exceed minimum and maximum operating limits.

Scale prevention measures must be taken to prolong membrane life.