

NOTE: Membrane array will vary with system capacity

RO PERFORMANCE

Initial Production Capacity (Max)
SDI ≤ 5 12000 GPD (8.3 GPM)

System capacity based on operating with a feed of 500 ppm NaCl at 200 psig, 77°F, and pH 7.5

Max Operating Pressure 275 psig
System Projected Rejection Rates >95%
Recovery Rate 65% (Min) / 75% (Max)
Higher recovery rates are achieved with reject recirculation option.

FEEDWATER REQUIREMENTS

Maximum Allowable SDI 5 (SDI)
Maximum LSI (reject side) < 0
Maximum Free Chlorine 0.0 ppm
Operating Temperature 33°F - 113°F
Operating pH 6 - 11

SYSTEM DIMENSIONS (Approximate)

Height 64 inches
Width 60 inches
Depth 24 inches
Shipping Weight 625 lbs

ELECTRICAL REQUIREMENTS

Standard 208 / 230 VAC, 3-Phase
Hertz 50 / 60 Hz
Current (Full Load) 17 / 15 Amp

Other Electrical Potentials are Available. Including Single Phase.

PLUMBING REQUIREMENTS

Inlet Pipe Size ≥ 1 inches
Inlet Pipe Materials PVC
Inlet Required Flow Rate 16 GPM (Max)
Minimum Inlet Dynamic Pressure 20 psig
Maximum Inlet Pressure 100 psig

Required Pressure and Flow Rates will Vary Dependent on flux and percent recovery.

Inlet Required Pressure 20 - 100 psig
Drain Pipe Requirement ≥ 1 inch
Recommended Drain Pipe Material. PVC
Drain Flow Capacity 16 GPM
Permeate Pipe Size $\geq 3/4$ inch
Permeate Pipe Material PVC or Compatible

SYSTEM FRAME

Configuration Horizontal
 Material of Construction Steel
 Frame Finish Enamel

SYSTEM PUMP

Manufacturer Grundfos
 Type C-Series
 Material of Construction Stainless Steel
 Horse Power Rating 5 H.P
 Motor Enclosure ODEP

FEED WATER PLUMBING

Connection 1" FPT
 Material of Construction PVC

REJECT WATER PLUMBING

Connection 3/4" FPT
 Material of Construction PVC

WETTED MATERIALS

Brass	Stainless Steel
Polypropylene	ABS
Ceramic	PVC
EPDM	Polysulfone

REVERSE OSMOSIS MEMBRANES

Manufacturer Toray
 Model TMG10
 Size 4 x 40
 Initial Flow Rating 2000 GPD at 110 PSI
 Initial Salt Passage < 5%)
 Quantity 6

INSTRUMENTATION

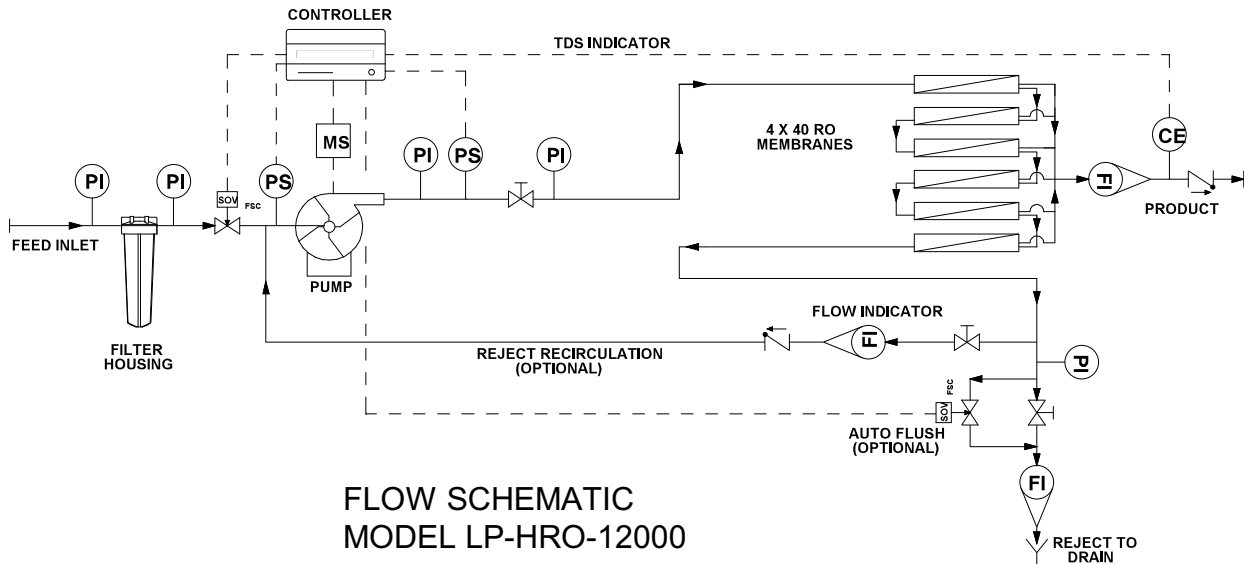
Controller SERIES 100
 Flow Meters Mechanical Rotometers
 Pressure Gauges Liquid Filled Brass

STANDARD FEATURES

Low Pressure Cut-Out	Tank Full Control
Pretreat Lock-out	Visual Status Led
B.B. Filter Housing 20"	Inlet Sol. Cut-Off

OPTIONS

Series 150 Controller	Aux Pump Output
Alarm Outputs	Temperature Display
Run Hour Display	Warning Display
Reject Recirculation	Auto Flush
Percent Rejection Meter	TEFC Motor
High Pressure Cut-out	TDS Monitor



**FLOW SCHEMATIC
 MODEL LP-HRO-12000**

Authorized Dealer

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