

*NOTE: Membrane array will vary with system capacity*

**RO PERFORMANCE**

Initial Production Capacity (Max)  
SDI  $\leq$  5 ..... 28000 GPD

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

Max Operating Pressure ..... 225 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 ..... 171 inches  
Depth ..... 30 inches  
Shipping Weight ..... 1200 lbs

**ELECTRICAL REQUIREMENTS**

Standard ..... 208 / 230 VAC, 3-Phase  
Hertz ..... 50 / 60 Hz  
Current (Full Load) ..... 28.5 / 26.0 Amp

Other Electrical Potentials are Available. Including  
Single Phase.

**PLUMBING REQUIREMENTS**

Inlet Pipe Size .....  $\geq$  1-1/2 inches  
Inlet Pipe Materials ..... PVC  
Inlet Required Flow Rate ..... 39 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 .....  $\geq$  1-1/2 inch  
Recommended Drain Pipe Material. .... PVC  
Drain Flow Capacity ..... 39 GPM  
Permeate Pipe Size .....  $\geq$  1 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 ..... 10 H.P  
 Motor Enclosure ..... ODEP

## FEED WATER PLUMBING

Connection ..... 1-1/2" Flange  
 Material of Construction ..... PVC

## REJECT WATER PLUMBING

Connection ..... 1" Flange  
 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 ..... 16

## INSTRUMENTATION

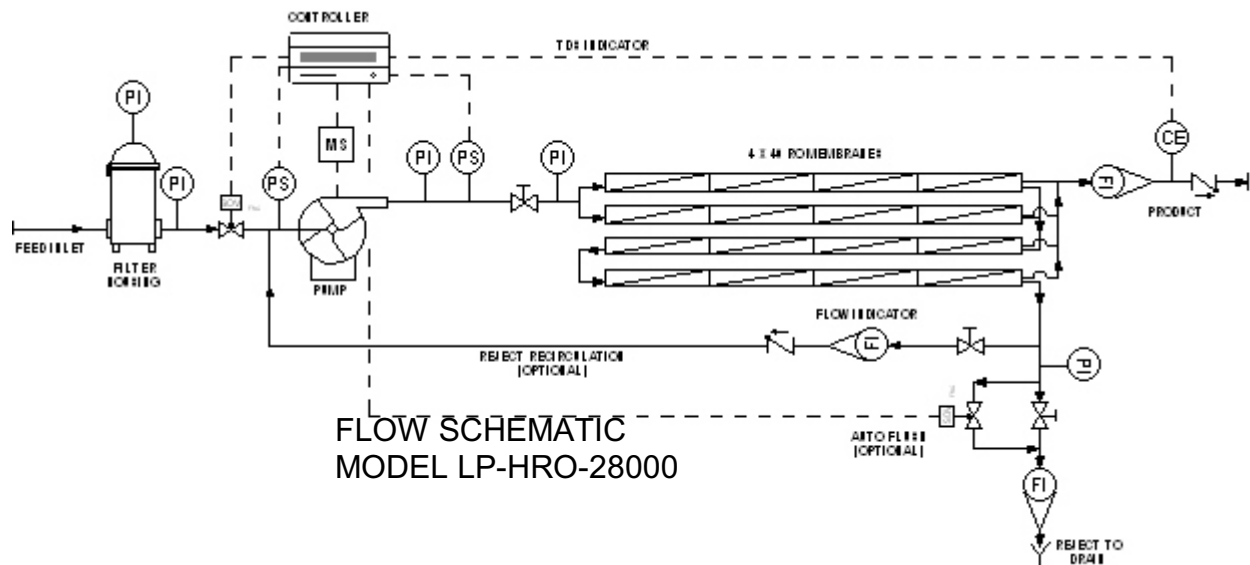
Controller ..... SERIES 150  
 Flow Meters ..... Mechanical Rotometers  
 Pressure Gauges ..... Liquid Filled Brass

## STANDARD FEATURES

Low Pressure Cut-Out	Tank Full Control
TDS Permeate Monitor	Pretreat Lock-out
Aux Pump Output	Alarm Outputs
Temperature Display	Run Hour Display
Inlet Solenoid Cut-Off	Warning Display
S.S. Filter Housing 20"	

## OPTIONS

Reject Recirculation	Auto Flush
Percent Rejection Meter	TEFC Motor
High Pressure Cut-out	



FLOW SCHEMATIC  
 MODEL LP-HRO-28000

Authorized Dealer

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