

A compact, energy efficient RO system designed to handle those most complex and demanding applications. Its rugged design delivers years of dependability and outstanding performance. The standard features incorporated into every system have been carefully selected to maximize water recovery, provide ease of installation, operation and maintenance, and ensure proper quality and quantity of water.

STANDARD FEATURES

- Sediment/Carbon Pre-Filtration
- Pentek® 20" Slim Line Housings
- Low Feed Water Pressure Safety Switch
- Product Water Pressure Switch
- On/Off Standby Switch
- Feed Water Shutoff Ball Valve
- Water Saving Recirculation Loop
- Pre and Post Filter Pressure, Liquid Gauges
- Operating Pressure, Liquid Gauge
- Feed Water Solenoid Valve
- Fluid-O-Tech™ Rotary Vane Pump
- High Efficiency Carbonator Motor
- Manual Membrane Flush Valve
- Product Water Check Valve
- John Guest® Safety Locking Clips
- 115V, 60HZ, 1PH Electrical
- Powder Coated Aluminum Frame
- Factory Tested for Quality
- Assembled in the U.S.A.
- One Year Limited Warranty

OPTIMUM

with Intelligent RO Controller

- ▶ Automatic Membrane Flush
- ▶ Pretreatment Lockout
- ▶ Tank Full Indicator
- ▶ LED Status Indicators
- ▶ Field Selectable Programs
- ▶ Smooth Start/Stop Operations
- ▶ System Fault Notifications



MODEL	CAPACITY (GPD/GPM)	MEMBRANE	DESIGN RECOVERY	NOMINAL TDS REJECTION
LP3-225	225 / 0.16	2" x 12" (Qty. 1)	50%	98-99%
LP3-350	350 / 0.24	2.5" x 21" (Qty. 1)	50%	98-99%
LP3-500	500 / 0.35	2" x 26" (Qty. 1)	50%	98-99%
LP3-750	750 / 0.52	2.5" x 40" (Qty. 1)	50%	98-99%
LP3-1000	1,000 / 0.69	4" x 21" (Qty. 1)	50%	98-99%
LP3-1750	1,750 / 1.22	4" x 40" (Qty. 1)	50%	98-99%

TAKE CONTROL OF YOUR RO SYSTEM

Available on all LP3 225-1750 Models

LP3 INTELLIGENT MICROPROCESSOR RO CONTROLLER

System Insight: Instantly know the current state of your RO system. LED status indicators show low feed pressure, tank full, system flushing, pump/solenoid operation, and pre-treat lockout.

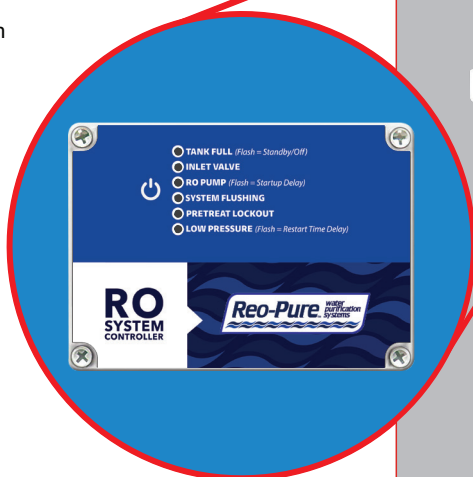
On-Site Control: Easily change the flush behavior with the flip of a switch. Four user-selectable programs to best suit your needs.

Pretreatment Communication: Prevent unwanted fault conditions by connecting with your pretreatment equipment. RO system temporarily pauses operation during pre-treat backflush.

Smooth System Operation: Advanced microprocessor controls the timely activation of major components. This helps to ensure smooth system startups and shutdowns.

UPGRADED FEATURES

- Advanced RO Controller
- Automatic Membrane Flush
- Pretreatment Lockout
- Tank Full Indicator
- LED Status Indicators
- Field Selectable Flush Settings
- Fault Condition Handling
- Switch Delays for Nuisance Tripping
- Smooth Start & Stop Operations



OPTIONAL FEATURES

Atmospheric Tank Connection: Allows RO system to operate with an atmospheric storage tank. Includes 20' float with weight.

Stainless Steel Model: Offers optimal resistance to corrosion in higher than normal TDS applications.

Lead Free Model: Offers low lead compliant material for necessary applications.

220V/50HZ/1PH: Electrical configuration for alternative install site requirements.

TDS Monitor: Monitor the performance of your membrane, and know when to service or replace.

- SM-1 HM Digital® Single Probe, Digital Display
- DM-2 HM Digital® Dual Probe, Digital Display

* Additional options and upgrades available

SYSTEM SPECIFICATIONS	LP3-225	LP3-350	LP3-500	LP3-750	LP3-1000	LP3-1750
DESIGN						
System Capacity	225 GPD / 0.16 GPM	350 GPD / 0.24 GPM	500 GPD / 0.35 GPM	750 GPD / 0.52 GPM	1,000 GPD / 0.69 GPM	1,750 GPD / 1.22 GPM
Configuration	Single Pass	Single Pass	Single Pass	Single Pass	Single Pass	Single Pass
Nominal Salt Rejection	98-99%	98-99%	98-99%	98-99%	98-99%	98-99%
Recovery Rate	50%	50%	50%	50%	50%	50%
CONNECTIONS						
Inlet	3/8" FNPT	3/8" FNPT	3/8" FNPT	1/2" FNPT	1/2" FNPT	1/2" FNPT
Product & Drain	3/8" Tube	3/8" Tube	3/8" Tube	3/8" Tube	3/8" Tube	1/2" Tube
MEMBRANES						
Membrane Element	2" x 12" (Qty. 1)	2.5" x 21" (Qty. 1)	2" x 26" (Qty. 1)	2.5" x 40" (Qty. 1)	4" x 21" (Qty. 1)	4" x 40" (Qty. 1)
Membrane Vessel	PVC	Stainless Steel	PVC	Stainless Steel	Stainless Steel	Stainless Steel
PRE-TREATMENT						
Filter Housing	20" Slim Line (Qty. 2)	20" Slim Line (Qty. 2)	20" Slim Line (Qty. 2)	20" Slim Line (Qty. 2)	20" Slim Line (Qty. 2)	20" Slim Line (Qty. 2)
PUMP & MOTOR						
Pump	Rotary Vane (60 GPH)	Rotary Vane (125 GPH)	Rotary Vane (60 GPH)	Rotary Vane (140 GPH)	Rotary Vane (140 GPH)	Rotary Vane (320 GPH)
Motor HP @ 60 (50HZ)	1/4 (1/3)	1/3 (1/3)	1/4 (1/3)	1/3 (1/3)	1/2 (1/2)	3/4 (N/A)
ELECTRICAL						
Standard Voltage	115V, 60HZ, 1PH, 5A	115V, 60HZ, 1PH, 5.6A	115V, 60HZ, 1PH, 5A	115V, 60HZ, 1PH, 5.6A	115V, 60HZ, 1PH, 7.2A	115V, 60HZ, 1PH 10.4A
Voltage Options	220V, 50HZ, 1PH, 2.8A	220V, 50HZ, 1PH, 2.8A	220V, 50HZ, 1PH, 2.8A	220V, 50HZ, 1PH, 2.8A	220V, 50HZ, 1PH, 3.6A	Not Available
SYSTEM DIMENSIONS						
Approximate Weight	40 lbs.	45 lbs.	50 lbs.	55 lbs.	58 lbs.	65 lbs.
System Dimensions (L x D x H)	14" x 17" x 36"	14" x 17" x 36"	14" x 17" x 38"	14" x 17" x 49"	14" x 17" x 36"	14" x 17" x 49"

DESIGN CONDITIONS

Operating Pressure	100 PSI (LP3-500 at 150 PSI)
Maximum Operating Pressure	150 PSI (LP3-500 at 180 PSI)
Feed Water Temperature	77°F (25°C)
Feed Water TDS	500 PPM as NaCl
Low Feed Water Pressure Switch	15 OFF / 20 ON
Product Water Pressure Switch	45 OFF / 25 ON
Membrane Element	TFC Polyamide - High Flux
Rejection Rate	Minimum 98% - Maximum 99%
Design Recovery	50%
Electrical	115V, 60HZ, 1PH (220V, 50HZ, 1PH Optional)

FEED WATER PARAMETERS

Designed for use with potable water sources only.

Temperature Range	40°F - 90°F (5°C - 30°C)
Inlet Feed Water Pressure	40 PSI - 85 PSI
Feed Water TDS	< 2,000 PPM
Hardness	10 GPG
Iron	0.01 PPM (dissolved)
Turbidity	< 1 NTU
Hydrogen Sulfide	Must be removed
Chlorine	< 0.1 PPM
Manganese	< 0.05 PPM
pH Range	3 to 11

* System production may vary depending on incoming water temperature and chemistry. System specifications are based on the above design conditions. Carbon filter included with LP3 Series.





 PRESSURIZED STEEL STORAGE TANKS				
ITEM NO.	MODEL	DESCRIPTION	DIMENSIONS (Height x Diameter)	CONNECTION
587SSRO20	SSRO 20	20 Gallons	29.3" x 16"	1" FNPT
587SSRO35	SSRO 35	32 Gallons	29.3" x 21"	1-1/4" FNPT
587SSRO40	SSRO 40	44 Gallons	37.5" x 21"	1-1/4" FNPT
587SSRO85	SSRO 85	85 Gallons	46" x 26"	1-1/4" FNPT
587SSRO120	SSRO 120	119 Gallons	61" x 26"	1-1/4" FNPT

ATMOSPHERIC STORAGE TANKS			
ITEM NO.	DESCRIPTION	DIMENSIONS (Diameter x Height)	CONNECTION
354284500	100 Gallons	28" x 45"	1" NPTF
354316100	175 Gallons	31" x 61"	1-1/2" NPTF
354317600	225 Gallons	31" x 76"	1-1/2" NPTF
354358100	300 Gallons	35" x 81"	2" NPTF
354526600	550 Gallons	52" x 66"	2" NPTF



 STA-RITE [®] RE-PRESSURIZATION PUMP KITS			
ITEM NO.	DESCRIPTION	ELECTRICAL	FLOW RATE
5031236	PNC 1/2 HP, 35 Gal. Tank	1x115V, 60HZ	5.2 GPM @ 40 PSI
5033451	PND 3/4 HP, 35 Gal. Tank	1x115V, 60HZ	8.1 GPM @ 40 PSI
5033586	PLD 3/4 HP, 85 Gal. Tank	1x115V, 60HZ	15.3 GPM @ 40 PSI

 DELIVERY PUMPS			
ITEM NO.	DESCRIPTION	ELECTRICAL	FLOW RATE
30993013251	SCALA2, 3/4HP Variable Speed	1x115V, 60HZ	12 GPM @ 40 PSI
30993013250	SCALA2, 3/4HP Variable Speed	1x208-230V, 60HZ	12 GPM @ 40 PSI



**PRE/POST
MEDIA FILTER**



UV



WATER SOFTENER



OZONE