

The Reo-Pure™ BLS Series 12000-18000 GPD models are engineered to economically deliver high volumes of RO water for the most demanding applications. Every model is offered in two packages, providing the flexibility to choose the system features that best meet your needs.

### STANDARD FEATURES

- Sediment Pre-Filtration
- Pentek® 20" Big Blue Housing
- Low Feed Water Pressure Safety Switch
- Storage Tank Float Control Connection
- Pretreatment Lockout Connection
- Digital TDS Display
- On/Off Standby Switch
- Product Water Flow Meter
- Reject Water Flow Meter
- Water Recirculation Flow Meter
- Adjustable Reject Water Needle Valve
- Adjustable Water Saving Recirculation Loop
- Pre and Post Filter Pressure, Liquid Gauges
- Operating Pressure, Liquid Gauge
- Feed Water Solenoid Valve
- Sta-Rite® High Pressure Booster Pump
- Product Water Check Valve
- John Guest® Safety Locking Clips
- 230V, 60HZ, 1PH Electrical
- Powder Coated Frame
- Factory Tested for Quality
- Assembled in the U.S.A.
- One Year Limited Warranty



### STANDARD PACKAGE

- ▶ S-150 RO Controller
- ▶ Manual Membrane Flush

### OPTIMUM PACKAGE

- ▶ S-150 RO Controller
- ▶ Automatic Membrane Flush
- ▶ Post Membrane Pressure Gauge

MODEL	CAPACITY (GPD/GPM)	MEMBRANE	DESIGN RECOVERY	NOMINAL TDS REJECTION	DIMENSIONS (L x D x H)
BLS-12000	12,000 / 8	4" x 40" (Qty. 4)	75%	98-99%	24" x 30" x 60"
BLS-15000	15,000 / 10	4" x 40" (Qty. 5)	75%	98-99%	24" x 30" x 60"
BLS-18000	18,000 / 12.5	4" x 40" (Qty. 6)	75%	98-99%	24" x 30" x 60"

### OPTIONAL FEATURES

**Feed Water TDS Monitor:** Provides an additional TDS/conductivity input for a second sensor to better monitor Product Water conditions.

**Expanded S-150 RO Controller:** Provides an additional 2 relays and 1 switch input. Ideal for controlling a re-pressurization pump, booster pump, or divert system. Can also be used for an alarm outputs.

**Product Water Pressure Switch:** Makes RO system compatible with any pressurized storage tank.

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

**Alternative Voltage:** Available with 230V/60HZ/1PH, 230V/60HZ/3PH, 460V/60HZ/3PH or 380V/50HZ/3PH configurations to meet install site requirements.

**\* Additional options and upgrades available**



# COMMERCIAL SYSTEMS

## BLS Series RO Systems: 12000-18000 GPD Models

SYSTEM SPECIFICATIONS	BLS-12000	BLS-15000	BLS-18000
<b>DESIGN</b>			
System Capacity	12,000 GPD / 8 GPM	15,000 GPD / 10 GPM	18,000 GPD / 12.5 GPM
Configuration	Single Pass	Single Pass	Single Pass
Nominal Salt Rejection	98-99%	98-99%	98-99%
Recovery Rate	75%	75%	75%
Nominal Feed Water Flow, Operation	11 GPM	14 GPM	17 GPM
Nominal Feed Water Flow, Flush	18 GPM	32 GPM	36 GPM
<b>CONNECTIONS</b>			
Inlet	1" FNPT	1" FNPT	1" FNPT
Product & Drain	3/4" FNPT	3/4" FNPT	3/4" FNPT
<b>MEMBRANES</b>			
Membrane Element	4" x 40" (Qty. 4)	4" x 40" (Qty. 5)	4" x 40" (Qty. 6)
<b>PRE-TREATMENT</b>			
Filter Housing	20" Big Blue (Qty. 1)	20" Big Blue (Qty. 1)	20" Big Blue (Qty. 1)
<b>PUMP &amp; MOTOR</b>			
<i>Standard (STD) Models</i>			
230V, 60HZ, 1PH	1.5 HP Motor (HP Booster Pump)	2 HP Motor (HP Booster Pump)	3 HP Motor (HP Booster Pump)
460V, 60HZ, 3PH	1.5 HP Motor (HP Booster Pump)	2 HP Motor (HP Booster Pump)	3 HP Motor (HP Booster Pump)
380V, 50HZ, 3PH	3 HP Motor (Vertical Centrifugal Pump)	4 HP Motor (Vertical Centrifugal Pump)	4 HP Motor (Vertical Centrifugal Pump)
<i>Optimum (OPTI) Models</i>			
230V, 60HZ, 1PH	1.5 HP Motor (HP Booster Pump)	2 HP Motor (HP Booster Pump)	3 HP Motor (HP Booster Pump)
230V, 60HZ, 3PH	3 HP Motor (Vertical Centrifugal Pump)	3 HP Motor (Vertical Centrifugal Pump)	3 HP Motor (Vertical Centrifugal Pump)
460V, 60HZ, 3PH	3 HP Motor (Vertical Centrifugal Pump)	3 HP Motor (Vertical Centrifugal Pump)	3 HP Motor (Vertical Centrifugal Pump)
380V, 50HZ, 3PH	3 HP Motor (Vertical Centrifugal Pump)	4 HP Motor (Vertical Centrifugal Pump)	4 HP Motor (Vertical Centrifugal Pump)
<b>SYSTEM DIMENSIONS</b>			
Approximate Weight	450 lbs.	525 lbs.	600 lbs.
System Dimensions (L x D x H)	24" x 30" x 60"	24" x 30" x 60"	24" x 30" x 60"

DESIGN CONDITIONS	
Operating Pressure	165 PSI
Maximum Operating Pressure	185 PSI
Feed Water Temperature	77°F (25°C)
Feed Water TDS	500 PPM as NaCl
Low Feed Water Pressure Switch	15 OFF / 20 ON (Optional)
Product Water Pressure Switch	45 OFF / 25 ON
Membrane Element	TFC Polyamide - High Flux
Rejection Rate	Minimum 98% - Maximum 99%
Design Recovery	75%
Electrical	230V, 60 HZ, 1 PH 230V, 60 HZ, 3 PH (OPTI Only) 460V, 60 HZ, 3 PH 380V, 50 HZ, 1 PH

FEED WATER PARAMETERS <small>Designed for use with potable water sources only.</small>	
Temperature Range	40°F - 90°F (5°C - 30°C)
Inlet Feed Water Pressure	35 PSI - 85 PSI
Maximum Feed Water TDS	2,000 PPM
Maximum Chlorine Tolerance	0.1 PPM
Maximum Hardness	10 GPG
Maximum Iron	0.5 PPM (Dissolved)
Maximum Oil Tolerance	0.0 mg/L
Maximum Feed Water Silt Index	5
Maximum Feed Water Turbidity	1 NTU
Maximum Product Water Back Pressure	50 PSI
pH Range	3-10
Minimum Pre-Filtration	5 Micron

\*System production may vary depending on incoming water temperature and chemistry. System specifications are based on the design conditions. NOTE: If the R.O. system is used with chlorinated water, a carbon filter is required.



REVERSE OSMOSIS & FILTER SYSTEMS  
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