

Exceptional Performance and Flexibility for Large Commercial Applications!

The **Reo-Pure™ BLS Series 12000-18000 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 Package - Offers spectacular performance, with features and monitoring tools to get the job done.

Optimum Package - Ideal for getting the most out of your RO System. Provides optimal features and monitoring for the highest level of control.

Benefits

- ❖ Energy Saving, High Flow Membranes
- ❖ Fully Assembled, Plumbed & Wired
- ❖ Easy Accessible Components
- ❖ Built-In System Monitoring Tools
- ❖ Low Operation & Maintenance Costs
- ❖ Small Footprint for Space Savings
- ❖ Fast & Easy Maintenance/Service
- ❖ Factory Tested to High Standards
- ❖ 1-Year Limited Warranty
- ❖ Made in the U.S.A.

Available in Capacities for 12,000 - 18,000 Gallons Per Day

System Package Features 12,000 - 18,000 GPD Models	STD	OPTI
Computer Controller		
S-100 Computer Controller	✓	
S-150 Computer Controller		✓
Features		
System Operating Pressure Gauge, Liquid Filled	✓	✓
Inlet & Outlet Pre-Filter Pressure Gauge, Liquid Filled	✓	✓
Post Membrane Pressure Gauge, Liquid Filled		✓
Automatic Feed Water Shut-Off Solenoid Valve	✓	✓
Low Feed Water Pressure Protection Switch	✓	✓
Reject Water Recirculation Loop	✓	✓
TDS Digital Display	✓	✓
Storage Tank Float Control Connection	✓	✓
Pre-Treatment Lock-Out Connection	✓	✓
Product Water Flow Meter	✓	✓
Reject Water Flow Meter	✓	✓
Water Recirculation Flow Meter		✓
Adjustable Reject Water Needle Valve	✓	✓
Adjustable Water Recirculation Needle Valve	✓	✓
Manual Membrane Flush	✓	
Automatic Membrane Flush		✓
High-Pressure (HP) Booster Pump	✓	
Vertical Centrifugal Pump		✓

Options & Upgrades

- ❖ 380V/50HZ/1PH
- ❖ Product Pressure Switch & Relief Valve
- ❖ 460V/60HZ/3PH
- ❖ Stainless Steel Pump



BLS 18000 OPTIMUM

System Specifications	BLS 12000	BLS 15000	BLS 18000
Flow Rates			
Permeate Flow*	12,000 GPD (8 GPM)	15,000 GPD (10 GPM)	18,000 GPD (12.5 GPM)
Design			
Operating Pressure	165 PSI	165 PSI	165 PSI
Rejection Rate	95% - 99%	95% - 99%	95% - 99%
Typical Recovery	75%	75%	75%
Connections			
Inlet Connection	1" NPTF	1" NPTF	1" NPTF
Product Connection	3/4" NPTF	3/4" NPTF	3/4" NPTF
Reject Connection	3/4" NPTF	3/4" NPTF	3/4" NPTF
Membranes			
Membrane Element	4" x 40" (Qty. 4)	4" x 40" (Qty. 5)	4" x 40" (Qty. 6)
Pre-Treatment			
Filter Housing (Sediment)	20" Big Blue (Qty. 1)	20" Big Blue (Qty. 1)	20" Big Blue (Qty. 1)
Pumps & Motor			
Pump	HP Booster Pump (STD) Vertical Centrifugal (OPTI)	HP Booster Pump (STD) Vertical Centrifugal (OPTI)	HP Booster Pump (STD) Vertical Centrifugal (OPTI)
Motor	1.5 HP (STD) / 3 HP (OPTI)	2 HP (STD) / 3 HP (OPTI)	3 HP (STD & OPTI)
Electrical			
Standard Voltage	230V, 60HZ, 1PH (STD) 230V, 60HZ, 3PH (OPTI)	230V, 60HZ, 1PH (STD) 230V, 60HZ, 3PH (OPTI)	230V, 60HZ, 1PH (STD) 230V, 60HZ, 3PH (OPTI)
Voltage Options	380V, 50HZ, 1PH 460V, 60HZ, 3PH	380V, 50HZ, 1PH 460V, 60HZ, 3PH	380V, 50HZ, 1PH 460V, 60HZ, 3PH
System Dimensions			
Approximate Weight	450 lbs.	525 lbs.	600 lbs.
System Dimensions (H x W x D)	60" x 24" x 30"	60" x 24" x 30"	60" x 24" x 30"

Feed Water Parameters

Temperature Range: 40°F - 90°F (5°C - 30°C)
Minimum Feed Water Pressure: 35 PSI
Maximum Feed Water Pressure: 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

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
Product Water Pressure Switch: System shuts down at 45 PSI (Optional) System starts up at 25 PSI
Membrane Element: TFC Polyamide - High Flux
Rejection Rate: Minimum 95% - Maximum 99%
Typical Recovery: 70%
Electrical: 220V, 60HZ, 1PH (STD) 230V, 60HZ, 3PH (OPT) (460V, 60HZ, 3PH - Optional) (380V, 50HZ, 1PH - Optional)

* System production may vary depending on incoming water temperature and chemistry. System specifications are based on the above design conditions.
 Note! If the R.O. system is used with chlorinated water, a carbon filter is required. BLS systems are designed for use with potable water sources only.