Reo-Pure™ water purification systems

BLS SERIES 3,000 - 9,000 GPD commercial reverse osmosis systems

Exceptional Performance and Flexibility for a Variety of Applications!

The **Reo-Pure™ BLS Series 3000-9000 Models** are engineered to economically deliver RO water, while providing the flexibility to choose the system features that best meet your needs. Every model is offered in a variety of packages:

Economy Package - When simple is all you need. Economy models offer spectacular performance, with easy-to-operate features.

Standard Package - A step up from Economy; offering features with more flexibility and additional monitoring capabilities for greater control.

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

Benefits

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

Available in Capacities for 3,000 - 9,000 Gallons Per Day

System Package Features 3,000 - 9,000 GPD Models	ECO	STD	OPTI
Computer Controller			
Mini-Trol IF Computer Controller	✔		
S-150 Computer Controller		✔	✔
Features			
System Operating Pressure Gauge	✔	✔	✔
Inlet & Outlet Pre-Filter Pressure Gauge	✔	✔	✔
Automatic Feed Water Shut-Off Solenoid Valve	✔	✔	✔
Low Feed 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		✔	✔
Fixed Reject Water Control - 70%	✔		
Adjustable Reject Water Control Valve		✔	✔
Manual Membrane Flush	✔	✔	
Automatic Membrane Flush			✔

Options & Upgrades

- 220V/50HZ/1PH
- Carbon Pre-Filter Housing
- Stainless Steel Pump
- TDS Digital Monitor
- Product Pressure Switch & Relief Valve
- Export/Domestic Highly Secured Crating

BLS 9000 OPTIMUM

Reo-Pure™ water purification systems

BLS SERIES

3,000 - 9,000 GPD commercial reverse osmosis systems

System Specifications	BLS 3000	BLS 6000	BLS 9000
Flow Rates			
Permeate Flow*	3,000 GPD (2.08 GPM)	6,000 GPD (4.16 GPM)	9,000 GPD (8.33 GPM)
Design			
Operating Pressure	165 PSI	165 PSI	165 PSI
Rejection Rate	95% - 99%	95% - 99%	95% - 99%
Typical Recovery	70%	70%	70%
Connections			
Inlet Connection	3/4" NPTF	3/4" NPTF	3/4" NPTF
Product Connection	1/2" Tube	1/2" Tube	1/2" Tube
Reject Connection	1/2" Tube	1/2" Tube	1/2" Tube
Membranes			
Membrane Element	4" x 40" (Qty. 1)	4" x 40" (Qty. 2)	4" x 40" (Qty. 3)
Pre-Treatment			
Filter Housing	20" Big Blue (Qty. 1)	20" Big Blue (Qty. 1)	20" Big Blue (Qty. 1)
Pumps & Motors			
Pump	HP Booster Pump	HP Booster Pump	HP Booster Pump
Motor	3/4 HP	1 HP	1.5 HP
Electrical			
Standard Voltage	230V, 60HZ,1PH	230V, 60HZ,1PH	230V, 60HZ,1PH
Voltage Options	220V, 50HZ,1PH	220V, 50HZ,1PH	220V, 50HZ,1PH
System Dimensions			
Approximate Weight	200 lbs.	250 lbs.	300 lbs.
System Dimensions (H x W x D)	60" x 25" x 21"	60" x 25" x 21"	60" x 25" x 21"

BLS 3000 OPTIMUM

Feed Water Parameters

Temperature Range:	40°F - 90°F (5°C - 30°C)
Minimum Feed Water Pressure:	20 PSI (35 PSI for BLS 9000)
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: *(Optional)*	System shuts down at 45 PSI System starts up at 25 PSI
Membrane Element:	TFC Polyamide - High Flux
Rejection Rate:	Minimum 95% - Maximum 99%
Typical Recovery:	70%
Electrical:	230V, 60HZ, 1PH *(220V, 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.