

Reo-Pure™ water purification systems

Commercial RO Systems

BLS 3000-9000 Series

MODELS AVAILABLE

- BLS 3000 (3000 gpd/2.0 gpm*)
- BLS 6000 (6000 gpd/4.1 gpm*)
- BLS 9000 (9000 gpd/6.3 gpm*)

BLS 3000 - 9000 RO SYSTEMS

- ◆ Energy Saving, High Flow Membrane Elements
- ◆ Stainless Steel Membrane Pressure Vessels
- ◆ High Pressure Booster Pumps
- ◆ 230V, 60Hz, 1-Phase
- ◆ Automatic Feed Water Shut-Off Valve
- ◆ 20" BB Sediment 5-Micron Pre-Filter
- ◆ Low Inlet Pressure Protection Switch
- ◆ System Operating Pressure Gauge
- ◆ Storage Tank Float Control Connection
- ◆ Pre-Treatment Lockout Connection
- ◆ 12 Month (One Year) Limited Warranty



Choose From Three Feature Packages To Fit Your Application

ECONO MODEL FEATURES

- ◆ Mini-Trol WQ Microprocessor Based Controller
- ◆ Fixed Reject Water Control (50%)
- ◆ Manual Membrane Flush
- ◆ Reject Water Recirculation Loop
- ◆ Pre-Treatment Lockout Connection

STANDARD MODEL FEATURES

- ◆ S-150 Microprocessor Based Controller
- ◆ Inlet & Outlet Pre-Filter Gauges
- ◆ Adjustable Reject Water Control Valve
- ◆ Product & Reject Water Flow Meters
- ◆ Manual Membrane Flush
- ◆ Product Water Check Valve
- ◆ Reject Water Recirculation Loop
- ◆ Pre-Treatment Lockout Connection

OPTIMUM MODEL FEATURES

- ◆ S-150 Microprocessor Based Controller
- ◆ Inlet & Outlet Pre-Filter Gauges
- ◆ Adjustable Reject Water Control Valve
- ◆ Product & Reject Water Flow Meters
- ◆ Automatic Membrane Flush
- ◆ Manual Feed Water Shut-Off Valve
- ◆ Post-Membrane Pressure Gauge
- ◆ Product Water Check Valve
- ◆ Reject Water Recirculation Loop
- ◆ Pre-Treatment Lockout Connection

Additional features available: Stainless Steel Pump and/or Frame, CIP (Clean-In-Place) Connection Ports, Product Water Pressure Switch with Relief Valve, 220V/50Hz/1-Phase, and others upon request.

** System production may vary depending upon incoming water temperature and chemistry
Based on feed water with 500 mg/L NaCl and temperature of 25°C. (77°F).*



WATER QUALITY
CONTROL SYSTEMS LIMITED

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Commercial RO Systems BLS 3000-9000 Series



BLS 3000 - 9000 DESIGN SPECIFICATIONS & FEED WATER PARAMETERS

	BLS 3000	BLS 6000	BLS 9000
Flow Capacity*	3000 GPD / 2.0 GPM	6000 GPD / 4.1 GPM	9000 GPD / 6.3 GPM
Typical Recovery	70%	70%	70%
Design Rejection	95% - 99%	95% - 99%	95% - 99%
Number of Vessels	(1) 4" x 40" S.S.	(2) 4" x 40" S.S.	(3) 4" x 40" S.S.
Number of Membrane Elements	(1) 4" x 40" Hi-Flow	(2) 4" x 40" Hi-Flow	(3) 4" x 40" Hi-Flow
Typical Operating Pressure	165 PSI	165 PSI	165 PSI
Nominal Feed Water Flow During Operation	3.15 GPM	6.30 GPM	9.45 GPM
Nominal Feed Water Flow During Sys. Flush	10 GPM	13 GPM	16 GPM
Temperature Range	40-90°F (5-30°C)	40-90°F (5-30°C)	40-90°F (5-30°C)
Minimum Feed Water Pressure	20 PSI @ 10 GPM	20 PSI @ 13 GPM	35 PSI @ 16 GPM
Maximum Feed Water Pressure	85 PSI	85 PSI	85 PSI
Maximum Feed Water TDS	2,000 PPM	2,000 PPM	2,000 PPM
Maximum Chlorine Tolerance	0.1 PPM	0.1 PPM	0.1 PPM
Maximum Hardness	10 GPG	10 GPG	10 GPG
Maximum Iron	0.5 PPM (Dissolved)	0.5 PPM (Dissolved)	0.5 PPM (Dissolved)
Maximum Oil Tolerance	0.0 mg/l	0.0 mg/l	0.0 mg/l
Maximum Feed Water Silt Index	5	5	5
Maximum Feed Water Turbidity	1 NTU	1 NTU	1 NTU
Maximum Product Water Back Pressure	50 PSI	50 PSI	50 PSI
pH Range	3 - 10	3 - 10	3 - 10
Minimum Pre-Filtration	5 Micron	5 Micron	5 Micron

* System production may vary depending upon incoming water temperature and chemistry. Based on feed water with 500 mg/L NaCl and temperature of 25°C. (77°F).

NOTE! If the R.O. system is used with chlorinated water, a carbon filter is required. BLS Systems are designed for use on potable water sources only.

BLS 3000 - 9000 DIMENSIONS & SERVICE CONNECTIONS

	BLS 3000	BLS 6000	BLS 9000
Depth	21"	21"	21"
Width	25"	25"	25"
Height	60"	60"	60"
Weight	200 Lbs.	250 Lbs.	300 Lbs.
Feed Water Inlet	3/4"	3/4"	3/4"
Reject Water To Drain	1/2"	1/2"	1/2"
Product Water To Storage	1/2"	1/2"	1/2"

BLS 3000 - 9000 DESIGN SPECIFICATIONS

Model	Production GPD/LPD*	Oper. Press.	Filter Housing	Membrane Element	Pump / Motor 60 Hz	Pump / Motor 50 Hz
BLS 3000	3000 / 11355	165 PSI	20" BB	4x40 (1)	HP Booster #3060712	HP Booster #30607125
BLS 6000	6000 / 22710	165 PSI	20" BB	4x40 (2)	HP Booster #3060720	HP Booster #30607205
BLS 9000	9000 / 34065	165 PSI	20" BB	4x40 (3)	HP Booster #3060722	HP Booster #30607205

BLS 3000 to 9000 TEST CONDITIONS

OPERATING PRESSURE: 165 PSI
 FEED WATER TDS: 500 PPM as NaCl
 DESIGN TEMPERATURE: 77°F (25°C)
 MEMBRANE: Energy Saving High Flow Composite Polyamide
 DESIGN RECOVERY: 70%



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