

BLS 12000 to 18000 System Specifications

MODELS AVAILABLE: BLS 12000, BLS 15000, BLS 18000

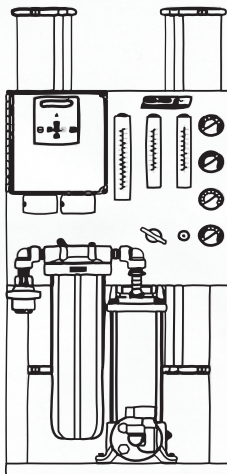
The BLS Series Systems are engineered to economically produce high purity water while providing the flexibility to choose system features to meet your application specifications. Units are available as skid mounted, pre-wired, and pre-piped with pre-treatment and post-treatment equipment for a complete water purification package. Skid mounted systems provide maximum efficiency of floor space and reduced installation time and costs.

BLS 12000 to 18000 R.O. Systems Standard Model Features:

Energy Saving, High Flow Membrane Elements
Stainless Steel Membrane Pressure Vessels
Vertical Multi-Stage Centrifugal Pump
230V I 460V, 60Hz, 3Ph Power
Epoxy Coated Steel Frame
Automatic Feed Water Shutoff Valve
20' BB Sediment 5-Micron Pre-Filter
Product & Reject Water Flow Meters
Inlet & Outlet Pre-Filter Gauges
System Operating Liquid Pressure Gauge
Manual Membrane Flush
Low Inlet Protection Switch
Pre-Treatment Lockout Connection
Storage Tank Float Control Connection
Reject Water Recirculation Loop
Product Water Check Valve
12 Month (One Year) Limited Warranty

STANDARD ON ALL BLS
12,000+ USGPD UNITS

Microprocessor Based System Controller With NEMA 4X industrial grade electrical enclosure, digital product water TDS monitor, digital product water temperature indicator, and system operating hours readout, Programmable time delays and set points, visual and audible alarm.



BLS 12000 to 18000 GPD Optimum Model Features:

Standard Model Features Plus.
Automatic Membrane Flush System
Post Membrane Pressure Gauge
Reject Water Recirculation Flow Meter

Additional Options Available:

316 Stainless Steel Pump
Clean-In-Place (CIP) Cleaning Port Connections Product Water Pressure Switch & Relief Valve
Stainless Steel Frame
Domestic and Export Crating
High Rejection Membrane Elements Nanofiltration Membrane Elements
50Hz Power Supply Operation...
190V/380V, 200V/400V, 208V/415V, 3 Phase



WATER QUALITY
CONTROL SYSTEMS LIMITED

605 Denison Street, Markham, ON L3R 1B8
Tel: 905-944-9465 1-888-830-5776 Fax: 905-944-0504
Website: www.purifiner.com Email: info@wqcs.com

BLS 12000 to 18000 System Specifications

		BLS DESIGN SPECIFICATIONS		
		BLS-12000	BLS-15000	BLS-18000
Flow Capacity GPD*		12,000 USGPD	15,000 USGPD	18,000 USGPD
Flow Capacity GPM*		8.0 USGPM	10.0 USGPM	12.5 USGPM
Typical Recovery		75%	75%	75%
Design Rejection Rate		95% -99%	95% -99%	95% -99%
Number of Membrane Vessels		(4) 4" x 40" S.S.	(5) 4" x 40" S.S.	(6) 4" x 40" S.S.
Number of Membrane Elements		(4) 4" x 40"	(5) 4" x 40"	(6) 4" x 40"
Typical Operating Pressure		165 PSI	165 PSI	165 PSI
Nominal Feed Water	Flow During Operation	11.0 GPM	14.0 GPM	17.0 GPM
	Flow During System Flush	18 GPM	32 GPM	36 GPM
Minimum Feed Water Pressure		35 P.S.I. @ 18 USGPM	35 P.S.I. @ 32 USGPM	35 P.S.I. @ 36 USGPM
Temperature Range		40-90°F (5-30°C)	40-90°F (5-30°C)	40-90°F (5-30°C)
Depth		30"	30"	30"
Width		24"	24"	24"
Height		60"	60"	60"
Weight		450 lbs.	525 lbs	600 lbs
Feed Water Inlet		1" NPTF	1" NPTF	1" NPTF
Reject Water To Drain		3/4" Tube	3/4" Tube	3/4" Tube
Product Water To Storage		3/4" Tube	3/4" Tube	3/4" Tube
<p>*System production may vary depending upon incoming water temperature & chemistry. Based on feed water with 500 mg/L NaCl and temperature of 25°C. (77°F).</p>				

BLS FEED WATER PARAMETERS	
Temperature Range	40-90°F (5-30°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
<p>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.</p>	

