

FACT SHEET

LB-1800 F - Durable, Energy-efficient Desalination



PRODUCT SPECS

Article Number LB-1800C-220 Salt Rejection 99.5% Technology Production per Day 6810 lpd (1800 gpd) Production per Hour 285 lph (75 gph) Recovery Rate 20% Feed Water Source Fresh, brackish, seawater 24VDC, 208-240VAC Voltage Options single or three phase, 800W Power Watt per Liter 2.5 Water Temperature Limits Sound Pressure Level 79 dB at 1 meter Weight 193 kg (425 lbs) Frame Dimensions

High energy-efficient Reverse-Osmosis (RO) Max 37°C (110°F) / Min 2°C (36°F) 135cm x 102cm x 71cm (53'' × 40'' × 28'')



FEATURES

- Spectra Connect Controller for automated operation and LAN enabled remote monitoring and control
- Extremely energy efficient, requiring typically less than 800 watts to purify seawater
- Soft-start speed control, no start-up spike
- Rugged, powder coated 304 stainless steel frame
- Fixed freshwater recovery ratio for easy operation, optimized for long RO membrane life
- Perfectly pairs with wind or solar power due to high energy efficiency
- Significantly quieter than conventional RO watermakers
- Patented energy recovery design and automated controls eliminate the need for constant monitoring by an operator.
- Membranes are protected from overpressure and scaling by design and can last 8-10 years or more with proper maintenance
- Spectra's renowned customer service and support with technicans available by Skype, phone and e-mail in North America and Europe

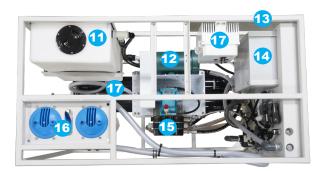




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1	Product Quality + Feed Flow Gauges		
2	Product Water Out		
3	Spectra Connect Control Panel		
4	Boost Pressure Gauge		
5	Membrane Pressure Gauge		
6	Brine Pressure Gauge		
7	Service Port		
8	Brine Port		
9	Service Valve		
10	4''x 40'' Membranes		



11	Flush/Service Module		
12	2HP 220V Motor		
13	Rugged 304 Stainless Steel Frame		
14	Spectra Connect Control System		
15	Pearson Pump Energy Recovery Device		
16	Prefilter Assembly		
17	4''x 40'' Membranes		
18	VFD Speed Control		

SYSTEM SHIPPING LIST

System
LB-1800 in Powder Coated Stainless Steel Frame
Components Built into Frame Assembly
Pre-Filtration Assembly - Two 4x20" Filters
Fresh Water Flush Tank
Inlet and Brine Discharge Service Connections
Spectra Connect Control Box with Main Circuit Breaker
Feed Valve - Automatic On/Off
24VDC Power Supply (for controls)
Installation Kit
Service Hoses and Filter Wrench
Hand-held TDS/Salinity Meter
User Manual
Log Book



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SPARE PARTS AND CONSUMABLES

Article Number	Product
FT-FTC-5BB20	5 micron 4x20'' cartridge filter
FT-FTC-10BBCALCITE	10'' Big Blue Calcite filter For optional remineralization of drinking water
KIT-SP5C-30R2K5	2,500 hr Pearson Pump rebuild kit
KIT-SP5C-30R10K	10,000 hr Pearson Pump rebuild kit
PP5-BD-BLT270H	Drive belt
KIT-CHEM-SC2	Spectra alkaline membrane cleaner
KIT-CHEM-SC3	Spectra acid cleaner
KIT-CHEM-SC1	Spectra membrane preservative

OPTIONAL COMPONENTS

Article Number	Product	Description
KIT-LB-BP-SP5AC	Shallow Well Jet Pump	This pump is self-priming up to 4.5m (15ft.) and is a robust solution for Seawater
FT-MD-AG16X65	Automated Prefilter-System	This media filter is configured for seawater and optimized for easy backflushing
		A calcite cartridge is used to balance the Ph and remineralize the product water in brackish water systems (not needed with seawater feed)
EL-CHE3GPM220A	Chlorine or Chemical Injection System	This unit precisely meters the 50 litre (15 g) concentrate into the product water
FT-UV-3GPM24	UV Post Treatment	Available when required by local regulations
EL-SWT-SMLV	Tank Level Switch	Allows the Spectra Connect control to respond automatically to changes in storage tank levels



List of all Portable Desalination and Purification Systems

AQUIFER SERIES

Article Number	Product	Product Information	Output
AF-200-DC	Aquifer 200	Highly portable water purification/desalination system. External power required.	30l/h, 8gph
AF-200-EX-FL	Aquifer 200 Expedition	External power required, compatible with optional Solar Power Pack (KIT-AF- FLRPS2P24).	30l/h,8gph
AF-200-PPS	Aquifer 200 Power Pack Solar	Includes Solar Panel. A self-sufficient offgrid water purification/ desalination solution that fits in a single case.	30l/h, 8gph
AF-FLR-200	Aquifer 200 Flight Ready	Complete portable watermaker system, 3 cases include watermaker, feed pumps and solar panels. Weight managed for commercial flights.	30l/h, 8gph
AF-360-EX-FL	Aquifer 360 Expedition	Portable with higher output. External power required, compatible with optional Solar Power Pack (KIT-AF-FLRPS3P24).	
AF-FLR-360	AF-FLR-360Aquifer 360 Flight ReadyComplete portable watermaker system, 3 cases include watermaker, feed pumps and solar panels. Weight managed for commercial flights.		55l/h, 15gph
KIT-AF-FLRPS2P24	IT-AF-FLRPS2P242 Panel Power Supply CasePower supply case with options for 12/24v DC, 100-240c AC 50/60 Hz as well as included Solar Panels. Compatible with AF-200-EX-FL.		n/a
KIT-AF-FLRPS3P24	3 Panel Power Supply Case	Power supply case with options for 12/24v DC, 100-240c AC 50/60 Hz as well as included Solar Panels. Compatible with AF-360-EX-FL.	n/a

LANDBASED SERIES

Article Number	Product Information	Watts Used*	Output
LB-400	Compact, modular purification/desalination	300	64l/h, 17gph
LB-1800F-220M	Framed watermaker with manual controls	800	2851/h, 75gph
LB-1800C-220	Framed watermaker with automated Spectra Connect controller	800	2851/h, 75gph
LB-2800F-220M	Framed watermaker with manual controls	1200	435l/h, 115gph
LB-2800C-220	Framed watermaker with automated Spectra Connect controller	1200	435l/h, 115gph
LB-10000-F-MS	Framed watermaker with manual controls	3800	1,575l/h, 420gph
LB-10000F-230S	Framed watermaker with automated Spectra Connect controller	3800	1,575l/h, 420gph
LB-20000 Container	Containerized community-level watermaker built into a standard shipping container. Ready to combine with a solar power system.	< 8kW	3,155l/h 833gph
LB-4000F-220M	Brackish Water system, framed with manual controls	1200**	680l/h, 180gph
LB-4000C-220	Brackish Water system, framed with automated Spectra Connect controller	1200**	680l/h, 180gph
LB-14000F-M- BR2S	Brackish water system, framed with manual controls	5300**	2,208l/h 583gph
LB-14000F-230	Brackish water system, framed with automated Spectra Connect controller	5300**	2,208l/h 583gph

*Using Seawater feed at 32,000 ppm and 25°C (77° F).

**25,000 ppm maximum salinity for these brackish water systems

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