

LB-4000 M - ANALOG MODULAR WATERMAKER

PRODUCT CHARACTERISTICS

| | |
|-----------------------|---|
| Production / Day | 4,000 gal (15,141 l) |
| Production / Hour | 160 gal (630 l) |
| Feed Voltages | 208-240 V AC recommended DC Units available on request |
| Watts | Varies with feedwater salinity |
| Feed Water Parameters | Fresh or brackish |
| Weight | 400 lbs (182 kg) |
| Pre Filters | (2) 4" x 20" spinning industrial 5 micron |
| Controls | Analog controls |
| Membranes | (4) 4" x 40" SWRO Membranes |
| Pump and Motor | Spectra Pearson pump |
| Salt Rejection | 99.4% |
| Temperature Range | Max 110°F (37°C) Min 36°F (2°C) |
| Baseline Conditions | 24,000 PPM feed water at 77°F (25°C) |
| pH Range | 3-11 (typical seawater pH is 8) |
| Chlorine Tolerance | 0 PPM |
| Warranty | Spectra standard warranty |
| Shipping Weight | 580 lbs (264 kg) |
| Shipping Dimensions | 53" x 40" x 28" (135cm x 102cm x 249cm) |



FACTS

The LB 4000 M is an analog desalination unit that is built using the patented Spectra Pearson Pump™ which allows for energy efficiencies comparable to large scale industrial desalination plants. The LB 4000 M is a compact modular system, making it easy to install.

The Pearson Pump™ is a breakthrough in pump design, combining a high-pressure piston pump with built-in energy recovery. The energy normally wasted in the high-pressure brine stream is recovered, saving up to 75% of the power required for a standard reverse osmosis system. The Pearson Pump's™ "hydraulically locked" recovery rate allows the pressure required for reverse osmosis to float, based on the salinity or temperature of the feed water, without control inputs. Standard systems require operator adjustments as the pressure changes, but our fixed recovery rate system eliminates the need for operator input and prevents membrane damage.

FEATURES

- Simple analog controls and gauges, minimal electronics.
- High pressure & vacuum switches for system protection
- Super efficient requiring typically less than 1000 watts to purify water, including feed pump, perfect for solar and wind power.
- Soft-start speed control means the system will never draw more than the rated power, no start-up spike. DC systems have the same soft start feature.
- Compact modules are easy to install and the single booster pump (not included) simplifies installation.
- Composite construction for superb corrosion resistance.
- Fixed system recovery for easy operation and long service life.
- Spectra Watermakers' world renowned customer service and technical support, with real technicians available by phone, WhatsApp, and email.

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SPARE PARTS AND CONSUMABLES

| Article Number | Product |
|--------------------|--|
| FT-FTC-5BB20 | 5 micron 4" x 20" cartridge filter |
| FT-FTC-10BBCALCITE | 10" Big Blue Calcite filter For optional remineralization of drinking water |
| KIT-SP5-50R2K5 | 2,500 hr SPP5-30 Pearson Pump rebuild kit |
| KIT-SP5-50R10K | 10,000 hr SPP5-30 Pearson Pump rebuild kit |
| PP5-BD-BLT300H | Drive belt |
| KIT-CHEM-SC2 | Spectra alkaline membrane cleaner |
| KIT-CHEM-SC3 | Spectra acid cleaner |
| KIT-CHEM-SC1 | Spectra membrane preservative |

INCLUDED

- Installation Kit
- Prefilter assembly
- Feed flow gauge
- Feed pressure and product flow gauge panel
- Storage chemical and service hoses
- Hand held salinity monitor
- Operation Manual

OPTIONAL COMPONENTS

| Article Number | Product | Description |
|------------------|---|--|
| KIT-LB-BP-SP5AC | Shallow Well Jet Boost Pump Kit | Includes 3-Phase 220 V, 7-12GPM Boost Pump & VFD Motor Speed Controller |
| KIT-MD-AG14X65 | Automated 14" x 65" Multi-Media Tank Kit | Media filter is configured for seawater and optimized for easy backflushing. Specify voltage requirement at time of order. Media not included. |
| KIT-FLT-CALCTBB | Remineralizer and PH-correction Calcite Filter Kit 4" x 10" | A calcite cartridge is used to balance the PH and remineralize the product water in brackish water systems (not needed with seawater feed). |
| KIT-PMP-3GPDINJ | Chlorine or Chemical Injection System | This unit precisely meters concentrate into the feed or product water depending on desired application. Chlorine on product side is most common application. |
| KIT-FLT-LB20CCBB | Carbon Filter Kit 20" | Generally used on the product water side to improve taste. |
| EL-SWT-SMLV | Tank Level Switch | Allows the Spectra Connect control to respond automatically to changes in storage tank levels. |
| PL-PRG-3/4FPVC | Pressure Regulator Kit | 3/4" Pressure Regulator 5-125 PSI 35GPM. Used to regulate feed pressure on systems using an aftermarket boost pump without precise controls. |