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WATERRA OWNER'S MANUAL  
**SPECTRA FIELD-PRO**  
SFP-100



**waterra** Groundwater Monitoring Equipment & Supplies

SN#



### Features:

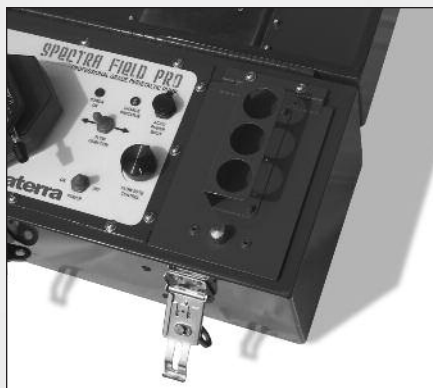
The **Waterra Field Pro Peristaltic Pump** is a self contained suction lift pumping unit.

The Field Pro includes:

- a **MasterFlex EasyLoad** pump head, heavy duty DC electrical motor, rechargeable battery, charging cab and sample container stand
- **all-inclusive design** — no external cables, chargers, batteries

etc. to worry about as you go from well to well.

- **highest quality components** including a 4-roller EZ-Load pump head, large memory free battery and an advance charger with a “float” to enhance the battery life
- **pump will run for more than 8 hours** on a single charge and can be run from your car or any 12-volt power source
- **advanced electronics** of the flow-controller allows well purging at almost twice the rate of other pumps, as well as low-flow ground-water sampling by simply turning a knob —these electronics also maintain a steady flow rate over 90% of battery life



- **built in tool box** for well keys, field books, etc. and a built-in VOA vial stand

- **intelligent, rugged design** developed by former environmental field personnel

- **available for 110VAC and 220 VAC**

### Field Note:

**Occasionally, an air bubble** may be trapped in a down-well pump during start-up. This will prevent the pump from pumping water even though the pump is running.

**To clear the air bubble**, simply run the pump for 5 seconds and shut it off for 10 seconds. Repeat three times and the air bubble should be cleared. An inertial pump valve can also be attached at the bottom of your sample line and used to prime the siphon hose, although this is not necessary. The valve will also prevent water from flowing back into the well when the pump is turned off.





### Charging the Waterra Spectra Field-Pro

The Spectra Field-Pro charging cable is located in the storage compartment. Plug this cable into any 110V AC supply to recharge the 12 Volt DC battery. (The Spectra Field-Pro is available with a 110VAC charger unit or a 220VAC charger unit.)

When the pump is charging, the green charge indicator will light. The Waterra Field-Pro uses a memory free battery. Eight hours of charging time should fully refresh the battery. A second cable is provided that allows the user to power the Field-Pro from a separate 12 Volt DC supply. This cable plugs into the adapter on the top of the Field-Pro.

### Operation

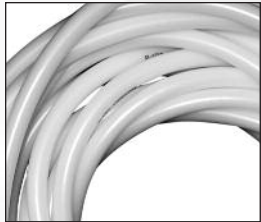
The EZ-Load pump head will accommodate several different sizes of peristaltic tubing as indicated on the pump head. Please note that the Field-Pro is not designed to work with 1/2" ID x 5/8" OD or larger tubing. Acceptable tubing sizes are L/S 15, L/S 24, L/S 35 and L/S36.



When the pump is switched on, the red indicator will light. Select the flow direction desired. Note that the middle station on the switch is the "off" position. When changing pump direction, turning the unit off for a minute will extend the life of the motor. The speed control knob can adjust the flow rate from 50-1900 ml/min. Once the flow rate is set, the Field-Pro will maintain this flow rate.

### Alternate Power Source

If an alternative 12 Volt power source is desired, plug the cable with cigarette lighter adapter into a running car or truck's cigarette lighter or another 12-Volt battery (The tool-box is sized to accommodate standard sized peristaltic pump batteries). Plug the other end into the pump's AC/DC input. There is no AC/DC switch.



**– TPE Peristaltic Tubing**

(Thermoplastic Elastomer —purchased separately)  
L/S 15, L/S 24, L/S 35 and L/S36

**Warranty**

**Waterra Pumps Limited warranties** this product for failures due to manufacturer's workmanship or material defect for 12 months from the date of purchase (or delivery, whichever is later) by the user. In the event of any failure during this warranty period, simply return the unit to Waterra. At our discretion, Waterra will either repair or replace this product, free of charge.

**The warranty is void if** the product has been abused, misused, or repairs have been attempted by unauthorized persons. If Waterra determines that a failure is the result of misuse etc., then an estimate for repair will be provided to the customer.

**This warranty described** above is exclusive, nontransferable, and in lieu of all other warranties, express or implied, including but not limited to any implied warranty of fitness for a particular purpose and all warranties arising from the course of dealing or usage of trade. The buyer's sole exclusive remedy is for repair or replacement of the non-conforming product. In no event shall Waterra Pumps Limited be liable to the buyer, or any person, for any special, indirect, incidental or consequential damages whether the claims are based in contract, tort (including negligence) or otherwise in respect to or arising out of the product purchased. The extent of liability is a full refund of the purchase price upon the return of the non-conforming unit.

WATERRA SPECTRA FIELD-PRO  
**CONTACT WATERRA**

**Canada and International**

Watera Pumps Limited  
5200 Dixie Road, Unit 44  
Mississauga, ON L4W 1E4  
CANADA  
tel: 905.238.5242  
fax: 905.238.5704  
email: [sales@watera.com](mailto:sales@watera.com)

**United States**

Watera U.S.A. Inc.  
4252 Spring Creek Lane, Suite B  
Bellingham, Washington  
USA 98226  
tel: 360.738.3366  
fax: 360.738.3399  
email: [watera@openaccess.org](mailto:watera@openaccess.org)