spectra

field-pro

athena®

alexis®

Peristaltic Pumps

portable sampling stations

eristaltic pumps have long been used for groundwater sampling. These pumps have a number of advantages over other types of devices, but they also have limitations.

Peristaltic pumps move water by generating suction in the sample line. These pumps generate this suction by progressively squeezing a piece of flexible tubing with a series of rollers mounted on a wheel. The flexible tubing is held in a track and

squeezing it flat against the track. A volume is captured in the tubing between two rollers and is pushed along as the rollers move. This motion generates a vacuum and generates

ate is I atmosphere, which at sea level is equal to

MASTERFLEX EASYLOAD™ 2

PUMP HEAD

All three of the peristaltic pumps supplied by Waterra use the Masterflex EasyLoad™ 2 pump head, which is one the best available. This pump head has many advantages, including the fact that the peristaltic tubing can be loaded into the pump head in seconds and that the pump head itself uses 4 rollers, which produces the best vacuum for the greatest lift.





the rollers run over the tubing,

maximum lift the best peristaltic pumps generate in the field is about 27 feet, and this will decrease with increasing elevation.

foot water column. In reality, the

Since peristaltic pumps apply a negative pressure to the water column, some people do not consider them suitable for collecting samples for VOC analysis.



Spectra Field-Pro state of the art

spectra field-pro



HEAVY DUTY CASE



STAND FOR SAMPLE BOTTLES

aterra introduces the Spectra Field-Pro — a state-of-the-art peristaltic pump that features a heavy-duty, all-inclusive design. This means no external cables, chargers or batteries to worry about.

BUILT FOR FIELD USE

Weighing in at 29lbs/13kg (including the battery), the Spectra Field-Pro's powder coated aluminum case has heavy-duty latches, hinges and handle.

The case has a built-in storage compartment which can hold a field book as well as the two power cables that come with the Field-Pro. The case also incorporates a stand for sample bottles. A rubber gasket around the inside of the case lid helps keep the elements out while it's closed.

SIMPLE CONTROLS

The Spectra Field-Pro's control panel is as simple as one would expect. The on/off switch and flow direction switch are rubberized and sealed. Power and charge lights are clear and very visible. The speed control knob is large, thus making fine adjustments easy.

FLEXIBILITY

The Field-Pro comes with 2 cables which plug into the AC/DC power input receptacle on the panel. The first cable may be plugged into a 110 V AC power source for battery recharging, while the second cable may be plugged into a car adapter (12V DC) for emergency power or to recharge the battery while on the road.

The Field-Pro should last for a full day on a complete charge, and the motor speed is electronically maintained at a constant as the battery discharges. No other peristaltic pump can

BEST PUMP HEAD

The Spectra Field-Pro uses the Masterflex EasyLoad™ 2 pump head, which is the best available - especially for environmental work.

The peristaltic tubing is simply placed into the pump head channel and the head is then closed by moving the lever over to the opposite position.

Next, sample tubing is attached to the peristaltic tube and the unit may then be turned on.

features:

- EZ-LOAD PUMP HEAD DESIGN PREVENTS STRETCHING OR JAMMING OF SILICON TUBING - NO SCREWS TO HANDLE
- CONSTRUCTED WITH TOP QUALITY, HEAVY-DUTY COMPONENTS
- BATTERY INCLUDED WILL RUN ALL DAY AT FULL STRENGTH & OUTLAST
- BUILT-IN VOA STAND ALLOWS EASY SAMPLING WITHOUT SPILLAGE
- ADVANCED, ELECTRONIC FLOW CONTROLLER MAINTAINS A STEADY FLOW RATE, REGARDLESS OF BATTERY VOLTAGE - WILL NOT CUT OUT DURING LOW FLOW SAMPLING
- PUMP HEAD ANGLED ON TOP OF UNIT FOR EASE OF OPERATION -PREVENTS CLEAN TUBING FROM SOILAGE
- BUILT-IN STORAGE COMPARTMENT FOR CHARGING CABLES, FIELD BOOK, TOOLS, WELL KEY, ETC.
- ALL CABLES INCLUDED TO ENABLE USE OF ALTERNATE (115 VOLT AC) POWER SOURCE

SPECTRA FIELD-PRO SPECIFICATIONS	
DIMENSIONS	17" L x 8.5" W x 11.25" H (43.2cm L x 21.6cm W x 28.6cm H)
WEIGHT	29 lbs (13 kg)
COMPATIBLE TUBING SIZES	- Masterflex sizes 15 through 36
APPROXIMATE FLOW RATE	50-1900 ml/min using 3/8" OD silicone tubing
BATTERY LIFE AT LOW FLOW	14 hours
BATTERY LIFE AT HIGH FLOW	9 hours



Pegasus Athena® lightweight & durable



athena[®]

aterra distributes the Pegasus Athena® Peristaltic Pump, which is lightweight, compact and easy to use. Simply attach it to your 12 volt DC power supply.

The high performance motor consumes only 3 amps at maximum RPM, making it an extremely efficient pump.

The rugged Pelican™ 1300 case enclosure is made of impact and corrosion resistant ABS plastic, which can withstand demanding work conditions.

The Pegasus Athena® incorporates the most accurate and precise variable speed controller for consistent flow rates. This pump also includes a built-in digital display and sealed push buttons which are used to control the pump.

features

- MASTERFLEX EASYLOAD[™] 2 PUMP HEAD THE BEST PERISTALTIC PUMP HEAD AVAILABLE, ALLOWS PUMP TUBING TO BE INSERTED INTO THE PUMP HEAD BY SIMPLY MOVING A LEVER
- PACKAGED IN THE DURABLE, CORROSION-PROOF PELICAN $^{\mathsf{TM}}$ 1430 CASE
- LCD PUMP CONTROL SCREEN WITH DIGITAL MOTOR SPEED DISPLAY
- REOUIRES A 12 VOLT DC POWER SUPPLY





LCD DISPLAY FOR ATHENA®

PEGASUS ATHENA® SPECIFICATIONS	
DIMENSIONS	10.6" L x 9.7" W x 6.9" H (27cm L x 24.5cm W x 17.5cm H)
WEIGHT	8 lbs (3.64 kg)
COMPATIBLE TUBING SIZES	- Masterflex sizes 15 through 36
APPROXIMATE FLOW RATE	40-2500 ml/min using 3/8"OD silicone tubing



Pegasus Alexis® portability defined



alexis®

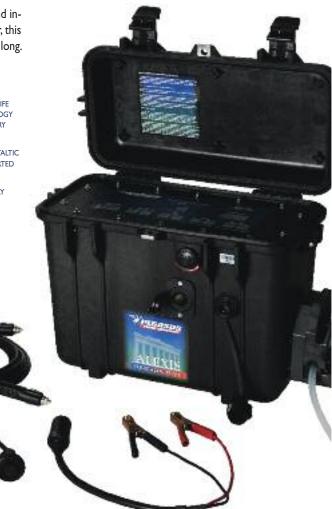
aterra distributes the Pegasus Alexis® Peristaltic Pump, a self contained sampling station that includes all the best features of these devices.

Packaged in the rugged Pelican™ 1430 case and incorporating its own power supply and charger, this pump will keep you sampling in the field all day long.

features

- INTERNAL 17 AMP AGM BATTERY PROVIDES EXTRA LONG LIFE AND PEGASUS' CONSTANT VOLTAGE BOOSTING TECHNOLOGY (CVBT) ENSURES A STABLE FLOW RATE AS THE AGM BATTERY DISCHARGES
- MASTERFLEX EASYLOAD[™] 2 PUMP HEAD THE BEST PERISTALTIC PUMP HEAD AVAILABLE, ALLOWS PUMP TUBING TO BE INSERTED IN THE PUMP HEAD BY SIMPLY MOVING A LEVER
- 17 AMP AGM RECHARGEABLE LONG LIFE INTERNAL BATTERY PROVIDES UP TO 12 HOURS — EVEN AT HIGH FLOW RATES
- PACKAGED IN THE DURABLE, CORROSION-PELICAN[™] 1430 CASE
- LCD PUMP CONTROL SCREEN WITH DIGITAL MOTOR

The Pegasus Alexis® has a 17 amp AGM rechargeable internal battery for up to 12 hours of power.





LCD DISPLAY FOR ALEXIS®

PEGASUS ALEXIS® SPECIFICATIONS	
DIMENSIONS	16.9" L x 9.6" W x 13.4" H (43cm L x 24.4cm W x 34cm H)
WEIGHT	21 lbs (9.5 kg)
COMPATIBLE TUBING SIZES	Masterflex sizes 15 through 36
APPROXIMATE FLOW RATE	40-2500 ml/min
BATTERY LIFE AT HIGH FLOW	12 hours



AC & DC Power Input