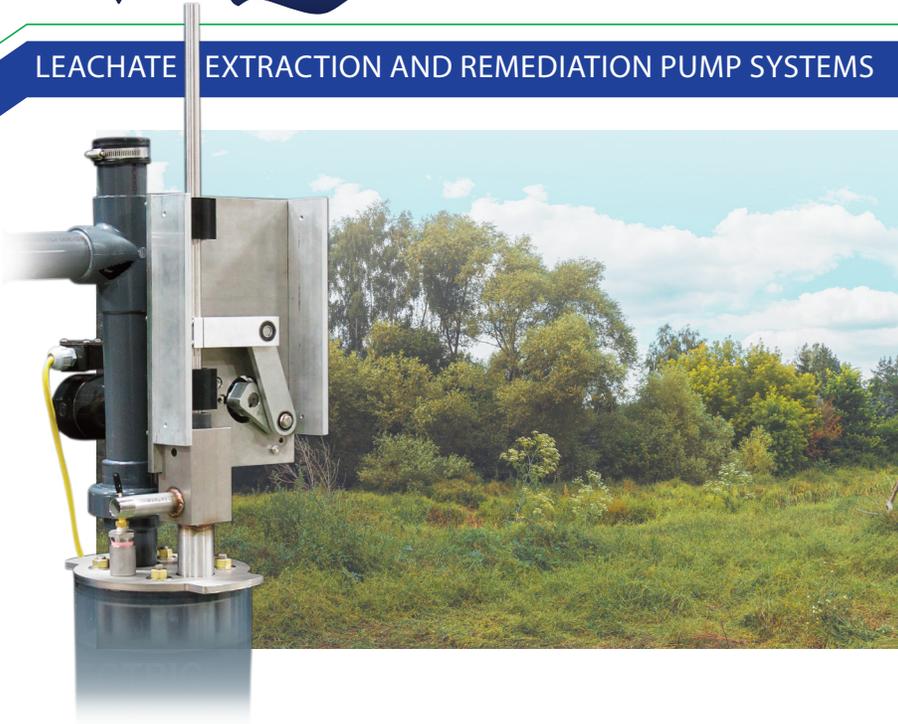


LEACHATE EXTRACTION AND REMEDIATION PUMP SYSTEMS



This versatile system offers the most flexible pumping system for every landfill and cleanup pumping need. Designed for reliable, high-performance pumping of almost any fluid under the most difficult operating conditions, this Top-drive piston pumps allows for substantial flexibility in depth setting and drive options. There are no down-well pneumatic lines or electric motors, and the mechanism provides an optimal blend of power, reliability and efficiency. A compact cylinder stroke results in greater efficiency and lower power consumption. Unique bearing design and durable seals deliver longer lifespan with simple installation and maintenance.

Flexible Drive, Depth Setting and Flow Options

Landfills generate contaminated leachate, which has chemicals and compounds collected as rain and groundwater wash through the landfill. This leachate is contained and pumped away from the landfill before it can contaminate local groundwater sources. The QED Top-Drive system makes this process flexible and dependable. With Top-Drive systems available in either solar, or AC electrical. The Top-Drive lets you choose the best power source for your application. Additionally, the top drive systems are completely interchangeable, should your conditions require a repower. This is done without breaking the well bore seal. Upgrading pump flow is as simple as replacing the down well pump, using the same top drive. Fast, easy and dependable!

FEATURES

- 100% interchangeable drive system
- Minimal liquid levels required to operate
- Top-drive design
- Optional Rigid wellbore seal
- Optional Custom Control Panels
- 2-year warranty

BENEFITS

- Pump can run dry with nominal impact to long term performance
- No electricity or compressed air in the well
- Optional controls with level alarms, beacons and other key parameter control

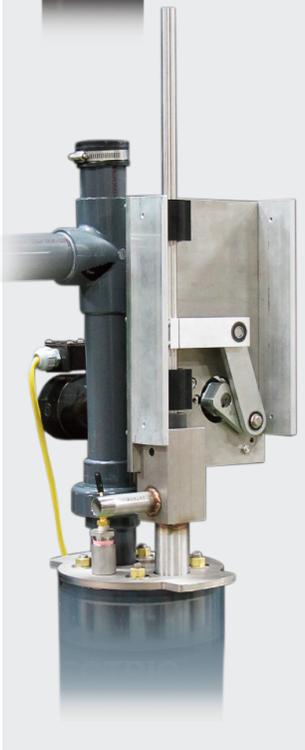
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INTERCHANGE TOP-DRIVE HEADS



SOLAR PUMP HEAD

- **Easily Implemented** – Eliminates the infrastructure required for pneumatic or electric pumping systems.
- **Flexible** – System design allows flexibility in pump operation based on site specific environmental and operational conditions.
- **Environmentally friendly** – Pumping alternative reduces operational costs and improves green image.
- **Top quality** – Manufactured with industry standard, highest grade materials.



ELECTRIC PUMP HEAD

- **Unsurpassed control options** - Explosion-proof, brushless motors available. Low power requirements.
- **Proven track record** – 24/7/365 operation with millions of uninterrupted operating hours in extreme climates.
- **Top quality** – Manufactured with industry standard, highest grade materials.
- **Easy service & installation** – Minimal tools and personnel required; most serviceable components are located above the well-head for easy access instead of pulling



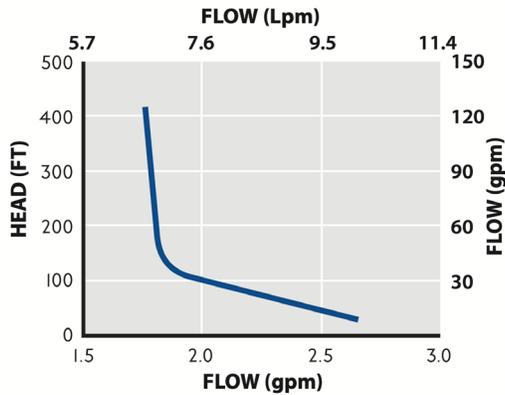
Down-Well Pump Choices

- **Low draw intake** – Intake design requires minimal liquid level to operate.

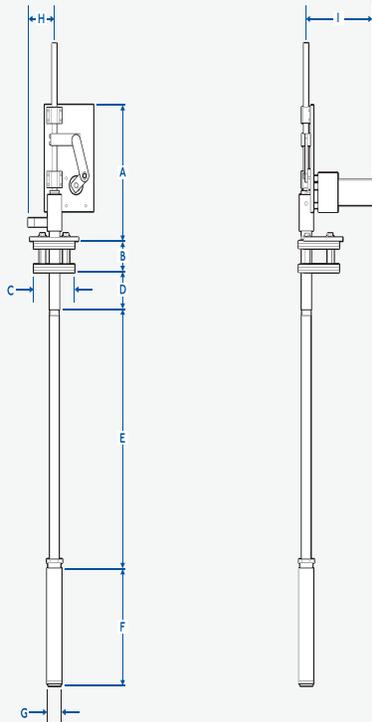
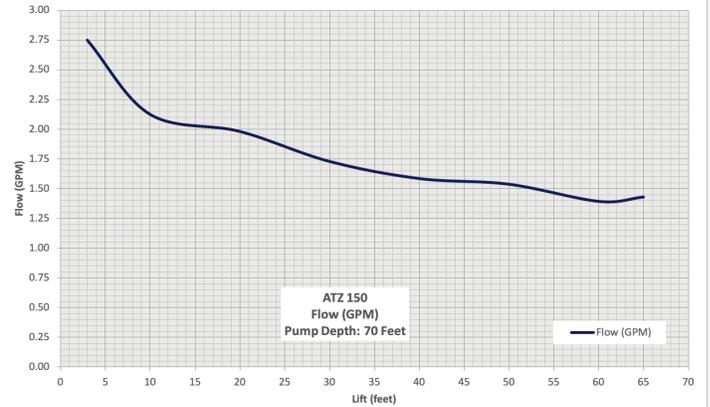
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SOLAR AND ELECTRIC PUMPS

PUMP HEAD vs. FLOW RATE LEP 1507-E



PUMP HEAD vs. FLOW RATE LEP 1507-S



Dimensions

Pump Head Height A	17.9" (45.5 cm)
Well Seal Insertion B	4.0" (10.2 cm)
Well Seal Diameter C	7.5" (19.0 cm)
Drop Tube Connector D	5.0" (12.7 cm)
Drop Tube Length E	Sections up to maximum pump head
Lower Pump Length F	15.5" (39.4 cm)
Piston Cylinder Diameter G	1.75" (4.45 cm)
LEP 1507-E	1.75" (4.45 cm)
Width at Discharge H	4.8" (12.2 cm)
Standard Motor Depth I	12.3" (31.2 cm)
(Optional Models Vary)	

Solar Pumps

Pump Model	Standard Solar Pump	Max. Head ft (m)	Flow Range gpm (Lpm)	Motor Ratings (HP)	Power Requirements
LEP 1507-S	Solar	70 (21)	1.4- 2.7 (5.3- .10.2)	0.2	12-24v DC

Electric Pumps

LEP 1507-E	Single	400 (122)	1.8- 2.5 (.48- .66)	0.33	120/208/240 1ø- 50/60 Hz
	3-Phase	400 (122)	1.8- 2.5 (.48- .66)	0.33	208/230/440/600 1ø or 3ø- 50/60 Hz

Components

LP-EB-ASSBLY_120V
LP-EB-ASSBLY_12V

LP-LP150-ASSBLY
xxx-x-WCA

Electric Drive Assembly
Solar Drive Assembly
Pump Head Assembly
Standard Lower Pump
Well Seal Assembly

The 150 has a discharge pipe size of 3/4" (1.9 cm) NPT, a minimum nominal pipe size for well casing (inches) of 4" without gas extraction, and 6" with gas extraction; 8" (20.3 cm) and other custom sizes are available. Max temperature 120oF/48.9oC, and includes a speed stroke control.

Controls Standard

Nema 4x enclosure with cover interlocked disconnect switch, overload contactor. All panels are SCA/UL approved and manufactured in an ISO 9001 certified facility.

Control Options

- On-off cycle timers, wireless interface (operation and status), GFI protected heat trace circuit.
- Variable speed can be provided with custom motor selection.
- Step down transformers and control circuits as required.

Other Options

Solar system sizing is done to meet site specific environmental and run time conditions.

Materials

In-well components are fabricated from stainless steel or PVC, and feature Buna-N seals. These materials provide the best corrosion resistance possible. Above-ground components are fabricated from stainless steel, 6061-T6 aluminum and PVC. All fasteners are stainless steel for maximum corrosion resistance. Chemical resistant options are available.

Warranty

Each leachate pump comes with a no-hassle 2-year warranty against manufacturers' defects.