

Anchor Elevated-Temp Electric Piston Pump™

TECHNICAL SPECS.

- Operational Depth: To 351 feet, 107 meters (1 HP); 165 feet, 50 meters (½ HP)
- Flow range: To 3.27 US gpm; 12.4 lpm
- Well Casing Size: Min. 3 in.; 7.62 cm.

For Fluids 150°F to 300°F
MODEL 102: ABOVE-WELL DRIVER MOTOR

Surface-grade power, maintenance

Blackhawk's Anchor Elevated-Temp Electric Piston Pump™ is specially designed to handle high temperature pumping of virtually any fluid, regardless of chemical composition, from 150°F to 300°F (65°C to 149°C).*

The Model 102 electric pump maintains steady flows to 3.27 gallons per minute – at 351 feet with a 1 HP motor and 165 feet with ½ HP. Model 101 maintains flows to 1.35 gpm to depths of 804 feet with 1 HP and 385 feet with a ½ HP motor.

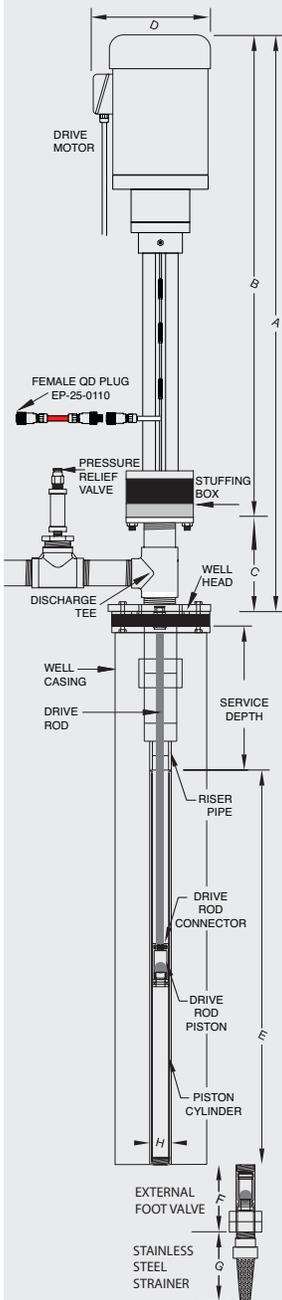
Maximum speed is 20 full strokes (up and down) per minute.

The Anchor Elevated-Temp is

a reciprocating-rod, positive-displacement piston pump powered by electricity. Motor and controls are at surface grade, above the wellhead, allowing simplified installation and maintenance.

Top-head drive motor provides linear pumping action direct from the surface through the sucker-rod assembly. Fluid inlet is at pump bottom intake and removes fluid to 0 submergence depth.

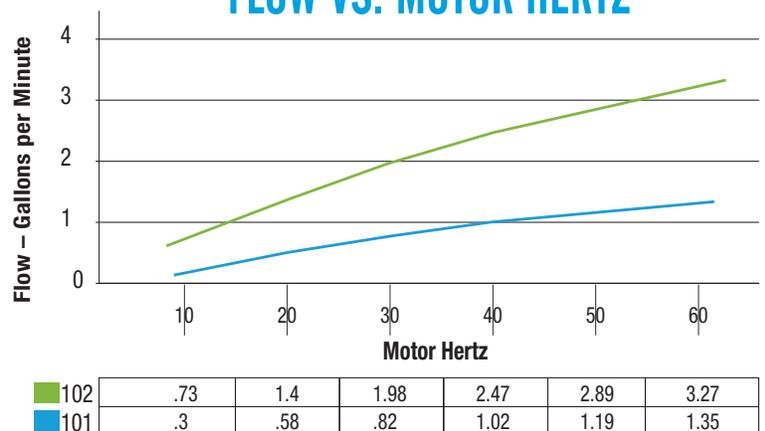
*For landfills below 150°F, use standard Blackhawk electric, pneumatic or solar models. Above 300°F, contact Blackhawk to customize pumps with ultra-high-temperature components.



DIMENSIONS (IN INCHES)

- A. Above Well Height 48.5
- B. Driver Length 43.0
- C. Discharge Tee and Well Seal Height .. 5.0
- D. Driver Diameter 8.0
- E. Foot Valve Assembly 40.0
- F. External Foot Valve 4.0
- G. Stainless Steel Strainer..... 4.0
- H. Largest Downhole Diameter 2.9

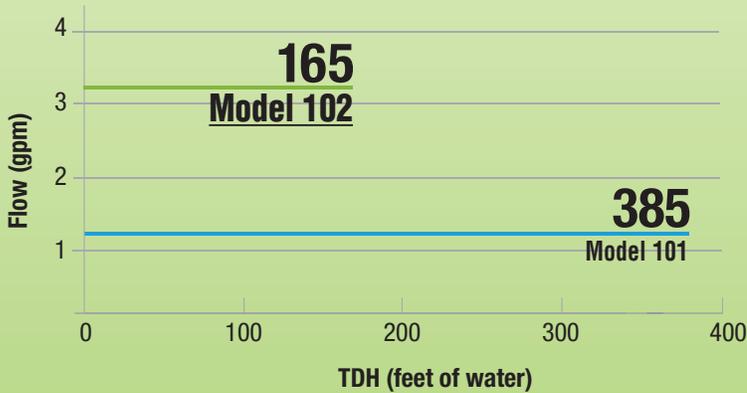
FLOW VS. MOTOR HERTZ



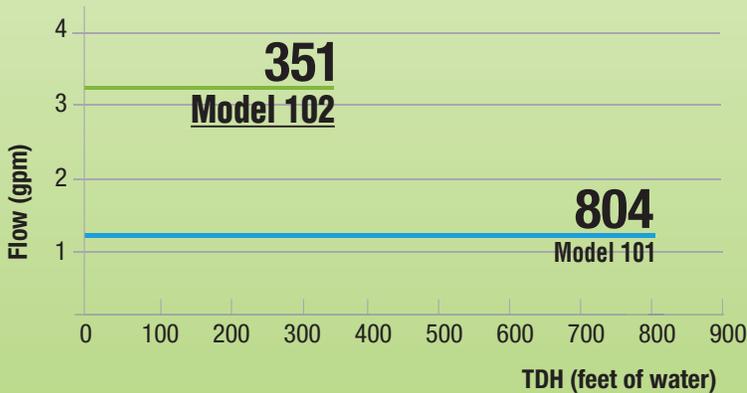
Anchor Elevated-Temp Electric Piston Pump™

MODEL 102: Flows to 3.27 gal per min

FLOW vs. DEPTH, 1/2 HP Motor



FLOW vs. DEPTH, 1 HP Motor



Visit www.blackhawkco.com to see why motors above the wellhead mean less-costly, more compliant, safer operations.

Performance Data

Operating Depth	351 ft., 107 m. (1 HP); 165 ft., 50 m. (½ HP)
Flow Range	To 3.27 US gpm, 4,709 gpd; (½ HP & 1 HP)
Discharge per Stroke	.16 US gallons per stroke (Flow does not vary with depth)
Motor	½ HP or 1 HP
Power Supply	120- or 230-volt single phase, or 230- or 460-volt three phase
Max. Lift	351 ft., 107 m. (1HP); 165 ft., 50 m (½ HP) *Variable-speed (stroke) control adjusts to well conditions; liquid drawn down to top of strainer
Max. Discharge Pressure	50 psig
Discharge per Stroke	.125 US gal / .48 liter
Temperature Range	150°F to 300°F / 65°C to 149°C

Technical Data

Stroke Length	12 in.
Recommended Bore Hole	3 to 4 in. or more
Max External Diameter	2.9 in. (7.37 cm)
Min Well Casing	3 in. (7.62 cm)
Cylinder Length	30 in.
Connection to Riser Pipe	2 in. (5.08 cm)
Discharge Size	2 in. NPT
Cylinder Weight	10 lb.
Driver Weight	40 lb.
Driver Rod Weight	12 lb. per 100 ft.
Foot Valve Assembly Wt.	10 lb.
Installation	Any angle horizontal to vertical

Available Options

- Drive-rod auto oiler
- Pressure-relief valve
- Liquid- level control
- Variable speed control
- Flow meter
- Well seals & kits
- Factory seal replacement

The best-performing environmental pump in the business

