

Rockford Solar-Electric Piston Water Pump™

PRODUCT OVERVIEW

- Flow: Up to 1.1 U.S. gal./min (4.16 lpm)
- Depth: Up to 400 ft. / 122 m.

APPLICATIONS

- Rural home water
- Farm stock watering
- Small pond aeration
- Ranch and remote watering
- Farm waste
- Replaces windmill power

DRIVE MOTOR

- AC power, or solar with batteries, or solar alone
- Power and connections above ground
- Clean running – no emissions
- Compact and lightweight
- Positive, reciprocating rod action
- Performs in cold weather
- Little maintenance
- No controller needed

DOWNHOLE COMPONENTS

- Superior-quality construction
- Drive pistons have extended service life
- No PVC plastic parts
- Stainless steel pump barrel
- Single, unitary rod – not sections
- Easy to install
- Mix components for customized needs
- System delivered as complete package

**Simple, Reliable
DUAL-POWER MOTOR**



Off-Grid or Grid-Tie; Clean & Affordable

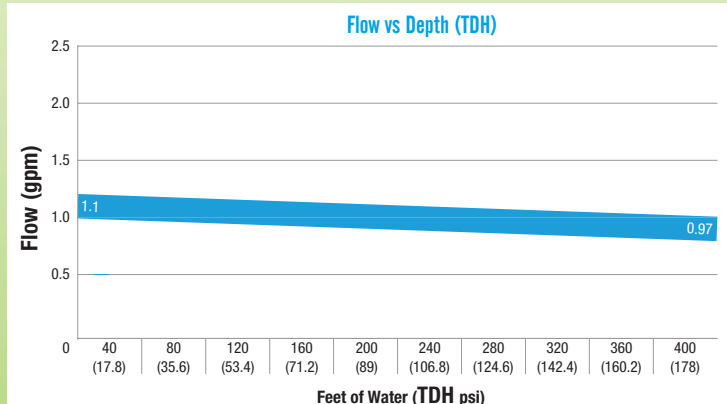
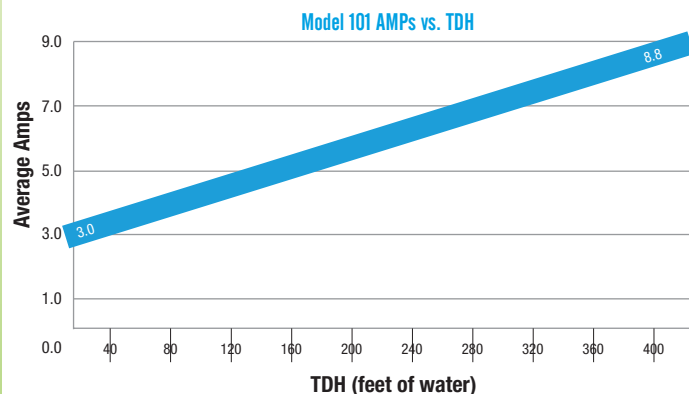
The rugged and affordable Rockford Piston Water Pump™ updates two traditional and simple technologies to provide low-cost and dependable water pumping for farm, rural and ranch.

Rockford's linear-rod motor is basic and low friction. As with oilfield pump jacks, the motor drives a piston to pull water from deep wells, or push water uphill, to 400 feet.

Power comes from solar with batteries, or solar alone or grid-tie electricity.

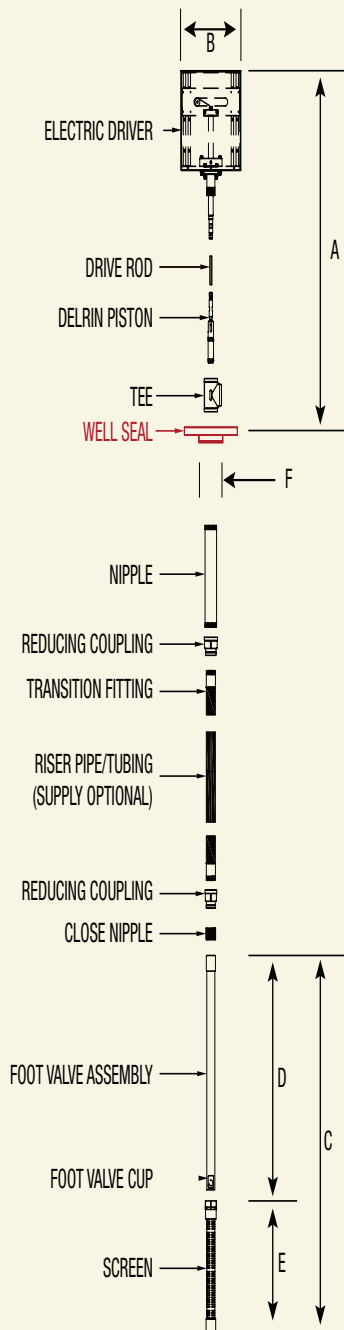
The unit is built with higher-quality materials for reliability. Installation and operation are uncomplicated. The pump may be run by hand if necessary.

Standard unit or custom. Delivered as a complete package. Major credit cards accepted.



Rockford Solar-Electric Piston Water Pump™

MODEL 101: STURDY & SIMPLE LIGHTWEIGHT, ¼ HP LOW-AMP MOTOR



DIMENSIONS (IN INCHES)

A	Above Well Height	19
B	Driver Width	12
C	Foot Valve Assembly Length	44
D	Foot Valve Length	38
E	Intake Screen Length	6
F	Downhole Diameter	1.9

Performance Data

Operating Depth	400 ft. (122 m.)
Flow Range	Up to 1.1 gpm (4.16 lpm) 1,584 gpd (5,990 lpd)
Motor	¼ hp linear drive, above well
Power Supply	24 volt DC, 10 amps
Max. Discharge Pressure	170 psig
Maximum Lift	170 psig

Easy Installation and Operation

Technical Data

Max. External Diameter	1.9 in. (4.85 cm)
Total Cylinder Length	38 in. (96.5 cm)
Connection To Riser Pipe	1.25 in. (3.18 cm)
Connection To Sucker Rod	7/16 in. - 20 in.
Recommended Internal Bore-Hole Diameter	2 to 3 in. (4.85 cm to 7.62 cm) or greater
Weight Of Cylinder	8 lb. (3.63 kg)
Discharge Size	1.25 in. (3.18 cm) NPT
Installation	Any angle from vertical to horizontal
Driver Weight	35 lb. (15.8 kg)
Driver Rod Weight	12 lbs. per 100 feet (3.7 kg per 100 m)
Foot Valve Assembly Weight	8 lb. (3.6 kg)
Min. Well Casing Size*	2 in. (4.85 cm)

*2 in. well casing requires 1¼ in. hard pipe with steel couplings

Visit www.blackhawkco.com to see why motors above the wellhead mean less-costly and simpler operations, with easy installation and servicing.

The toughest, most reliable pumps in the business



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