

Flowlight[®] Booster Pump

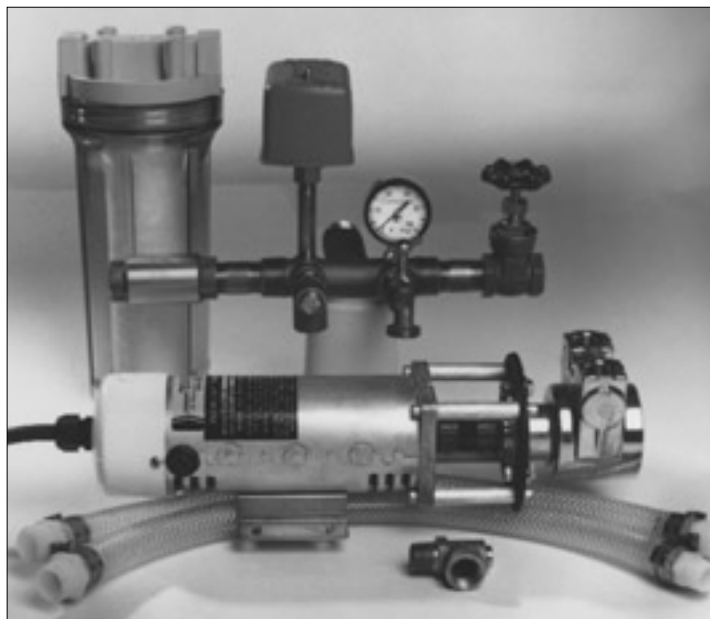


2900 Series

Use DC or AC power to pressurize water. Provides 3–4.5 Gallons per Minute (10–17 lpm) at pressure as high as 65 PSI (4.5 kg/sq. cm) from shallow water sources.

The Flowlight Booster Pump provides city water pressure, anywhere. It has been a standard in home renewable energy systems since 1986. It is economical for domestic water supply, drip irrigation, and water purification.

- ❑ A booster pump is far more cost effective than an elevated tank, providing pressure equivalent to over 100 feet (30m) of elevation.
- ❑ It uses one third to one half the energy of a conventional AC pump, and eliminates high starting surges.
- ❑ It is more powerful, quieter, and much more durable than plastic RV/Marine pumps. Wearing parts are replaceable, and typically last 5 to 10 years. Overall life expectancy is 15 to 20 years.
- ❑ Our complete instruction manual and Easy Installation Kit make this pump simple for anyone to install and service, with no previous experience.



Top: Inline Filter and Easy Installation Kit (accessories)
Center: Flowlight Booster Pump
Bottom: Flexible hose assemblies and pressure relief valve (included with the pump)

Other Dankoff Solar Pumps[™]

for lift and pressurizing
of surface water:

Flowlight[™] Booster Pump

Solar Slowpump[™]

Solar Centrifugal[™]

Solaram[™] Surface Pump

for deep wells:

SunRise[®] Submersible

"Over the last five years, we've found our Flowlight pump to perform impressively. If installed properly and filtered, they are very faithful pumps."

J.T., Nemia Valley, British Columbia, Canada

"Our (Flowlight Booster Pump) has had 2 1/2 years of daily use. I have no complaints at all. It works really fine."

G.O., Willow, Alaska

"It's a delight to be weaned from the generator."

C.H., Coulterville, California

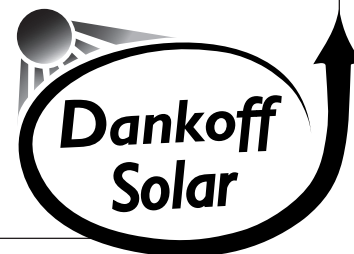
"I have used 5 of your pumps for years here in the Bahamas. They are superior products."

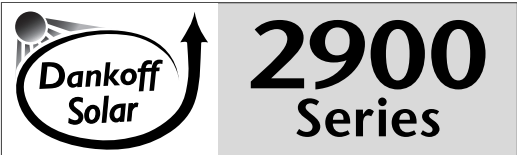
J.K., Abaco, Bahamas

"It makes isolated living a pleasure."

S.C., Ontario, Canada

Dankoff Solar Products, Inc.
Solar Pump Manufacturing Since 1983
www.dankoffsolar.com





Flowlight® Booster Pump

Suction Capacity

Low Speed Model 20 vertical feet (6 m) **Standard Model** 10 Feet (3 m) at sea level—subtract 1 ft. for every 1000 ft. altitude (1 m for every 1000 m)
 Note: Suction capacity may be further limited by intake pipe friction. Excessive suction causes cavitation (vapor bubbles) creating noise and excessive wear. Intake piping should be 1" or larger. Pump should be mounted as close to the water source as possible.

Choice of Capacity

- **Standard Model** for highest flow
- **Low Speed Model** (DC only) has higher pressure capacity, and is best for:
 - Suction lift greater than 10 feet
 - Intake pipe smaller than 1" size
 - Extra-quiet operation is desirable

Choice of Voltage

- 12 or 24 Volt DC, others (inquire)
- 115 Volt AC (low surge PM motor minimizes inverter and wire size)

V = Voltage • Specify 12, 24, 48, 115ac

| | STANDARD Model 2920-V | | | | LOW SPEED Model 2910-V * | | | |
|--|-----------------------|-----------|----------|----------|--------------------------|-----------|----------|----------|
| Pressure • PSI (kg/sq cm) | 30 (2.1) | 40 (2.8) | 50 (3.5) | 65 (4.6) | 30 (2.1) | 40 (2.8) | 50 (3.5) | 65 (4.6) |
| Flow Rate • GPM (lpm) | 4.5 (17) | 4.3 (17) | 4.3 (16) | 4.1 (15) | 3.4 (13) | 3.3 (12) | 3.1 (12) | 2.7 (10) |
| Current Draw • AMPS 12V | 13 | 15 | 16 | 22 | 10 | 11 | 12 | 15 |
| AMPS 24V | 6.5 | 7.5 | 8 | 11 | 5 | 5.5 | 6 | 7.5 |
| AMPS 115VAC | 1.7 | 2.0 | 2.1 | 2.9 | AC and 48V not available | | | |
| Watt-Hrs Per Gallon (per ltr) Pumped | .6 (.16) | .67 (.18) | .75 (.2) | 1.1 (.3) | .6 (.16) | .67 (.18) | .75 (.2) | 1.1 (.3) |

Specifications may vary ±10%

*Higher Suction Lift Capacity—See Text

Construction

- Rotary vane pump mechanism (pulsation-free)
- Solid forged brass pump body with carbon-graphite and stainless steel working parts
- NSF® approved for drinking water
- Handles sea water and dissolved minerals
- Survives most freezes
- Permanent magnet, ball bearing DC motor, thermally protected
- Clear flexible hoses and pressure relief valve included

Additional Needs

- Battery-based power system (12V or 24V) or AC (minimum 300 watt inverter)
- Pressure tank, captive air type. Minimum size: 40 gallon (150 l). Larger is better, to reduce cycling and increase reserve capacity. Available locally.
- Foot valve (if pump is placed higher than water source)

Filtration Requirement

- This pump CANNOT tolerate dirt. Water must be filtered clear.

Accessories

- **Intake Strainer/Foot Valve** with fine monel metal screen, stops coarse debris
- **Inline Filter** (10") uses standard drinking water cartridges
- **Intake Filter/Foot Valve** (30") replaces Intake Strainer and Inline Filter with a single unit, best for lowering into a shallow well
- **Spare Filter Cartridges** (5 or 10 micron spun fiber)
- **Easy Installation Kit** includes: Pressure switch, pressure gauge, check, drain and shut-off valves, and tank tee (manifold)
- **Dry Run Switch** prevents battery drain and pump damage if water source runs dry

Installation

- Pump may be mounted horizontally or vertically.
- Pump must not be submerged
- It may be placed inside a 6" (120 cm) or larger well casing, suspended by a rope. If casing is smaller than 10", request "adapting elbows" instead of flex hoses

Dimensions

- Length 16.5" (42 cm)
- Weight 15 lb (7 kg)
- Flexible hose ends have 3/4" male pipe thread

Warranty

- 1 year against defects in materials and workmanship

Available From: