

The Dankoff 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. If you live in a flat area and don't have gravity-feed water from a tank above your home, and you want water for your home or garden 24/7, this is the pump for you.

It runs on either rechargeable Deep Cycle batteries or AC, and uses one third to one half the energy of a conventional AC pump.

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.

A booster pump is far more cost effective than an elevated tank, providing pressure equivalent to over 100 feet of elevation.

The complete instruction manual and easy installation kit make this pump simple for anyone to install and service, with no previous experience.

Suction Capacity:

- Low Speed Model: 20 vertical feet at sea level
- Standard Model: 10 feet at sea level
- Subtract 1 foot for every 1,000 feet altitude for both models. Suction capacity may be further limited if the intake pipe is too small or too long. Excessive suction causes noise and excessive wear on the pump. Use at least a 1" diameter intake pipe.

Available Models:

- Standard model 2920-V for highest flow
- Low Speed Model 2910-V (DC Only), has a higher pressure rating, and is also recommended when the suction lift is greater than 10 feet, or extra quiet operation is desired.

Available Input Voltage Options:

- 12, 24, or 48 VDC
- 120 VAC. This model has a low surge motor which minimizes inverter and wire gauge size.



Construction:

- Rotary Vane pump mechanism (pulsation free)
- Solid forged brass plump 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, (pump head requires separate, optional thermal protection module)
- Clear, flexible hoses and pressure relief valve are included

Additional Needs:

- Battery-based power system (12 or 24 VDC) or AC power from the grid, an inverter, or a generator
- Pressure tank, captive air type, minimum size 40 gallon, the larger the better
- Foot valve to maintain suction if the pump is placed higher than the water source

Filtration Requirement:

This pump cannot tolerate dirt, water must be filtered clear with a 10 micron filter. A settling tank is recommended to pre-clean dirty water.

Warranty:

One year against defects in materials and workmanship.

The Flowlight Booster Pump, continued

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 the 10" intake filter and intake strainer with a single unit. Recommended for use in a shallow well.
- Spare filter cartridges, either 10" or 30", 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 the water source runs dry.

Installation:

- The pump may be mounted horizontally or vertically
- The pump must not be submerged in water
- It may be placed inside a 6" or larger well casing, suspended by a rope.

Dimensions:

- Length 16.5"
- Weight 15 lbs
- Flexible hose ends have a 3/4" or 1" male pipe thread

	Standard Model 2920-V*				High Suction Model 2910-V*			
Working Pressure in PSI	30	40	50	65	30	40	50	65
Flow Rate in Gallons per Minute	4.5	4.3	4.3	4.1	3.4	3.3	3.1	2.7
Watt-Hrs** per gallon pumped	0.6	.67	.75	1.1	0.6	0.67	0.75	1.1
Current Draw								
Amps @ 12VDC	13	15	16	22	10	11	12	15
Amps @ 24VDC	6.5	7.5	8	11	5	5.5	6	7.5
Amps @ 120 VAC	1.7	2	2.1	2.9	AC data not yet available			

* V = voltage. Specify 12 VDC, 24 VDC, 48 VDC, or 120 VAC

** Watt-Hrs are a measure of how much electricity is used, similar to measuring gallons of gasoline

