

Conergy Flowlight Booster Pump



CONERGY

- | The Conergy 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 (30 m) 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.

Suction Capacity

- | Low speed model 20 vertical feet (6 m) standard model 10 Feet (3 m) at sea level – subtract 1 ft. for every 1,000 ft. altitude (1 m for every 1,000 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 when:
 - | Suction lift greater than 10 feet
 - | Intake pipe smaller than 1" size
 - | Extra-quiet operation is desirable

Choice of Voltage

- | 12, 24 or 48 V DC, others (inquire)
- | 115 V AC (low surge PM motor minimizes inverter and wire size)



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 (12 or 24 V) or AC (minimum 300 W 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



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Solar pumps surface | Technical data

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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 rope. If casing is smaller than 10", request "adapting elbows" instead of flex hoses.

Dimensions

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

Warranty

- | 1 year against defects in materials and workmanship

Technical data Conergy Flowlight Booster Pump:

	V = Voltage • Specify 12, 24, 48, 115 AC							
	Standard Model 2920-V			Low Speed Model 2910-V ¹				
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)
Watt-Hrs.	0.6 (0.16)	0.67 (0.18)	0.75 (0.2)	1.1 (0.3)	0.6 (0.16)	0.67 (.18)	0.75 (0.2)	1.1 (0.3)
Per Gallon (per ltr) Pumped								
Current Draw AMPS 12V	13	15	16	22	10	11	12	15
AMPS 24 V	6.5	7.5	8	11	5	5.5	6	7.5
AMPS 115 V AC	1.7	2.0	2.1	2.9	AC and 48 V not available			

¹ Higher Suction Lift Capacity--See Text

| Specifications may vary ± 10 %

Available from:

FLOWLIGHT-TD-USA-0507

SOLAR PUMPS