



Model 18620-0003

## REVERSIBLE PUMP

### FEATURES

- Body: Bronze
- Impeller: Nitrile
- Seal: Lip Type
- Motor: Reversible Permanent Magnet Type with Integral Reversing Switch and Fuse
- Ports: 3/4" Garden Hose External
- Height: 3-3/8" (85mm)
- Length: 8-5/8" (172mm)
- Width: 4" (95mm)
- Weight: 5-1/2 lb (2.5 kg) Approx.



Model 18620-0003

**WARNING** Explosion hazard. Do not pump gasoline, solvents, thinners or other flammable liquids. To do so can cause an explosion resulting in injury or death.

**WARNING** Explosion hazard. Do not operate with rivets removed from motor case. Explosion resulting in personal injury, death or property damage can occur. Case openings must be sealed to avoid explosion and maintain ignition protected rating.

### APPLICATION

Use for circulating and draining bait tank, engine oil changing or general pumping requirements. With a wet impeller, pump will produce a suction lift of about 3 to 4 feet (0.9 to 1.2m) and a lift of about 10 feet (3m) when primed. **BE SURE SUCTION LINES ARE AIRTIGHT.**

### INSTALLATION

The pump must be mounted in a dry location - the motor is not waterproof and must not be submerged. SELECTION OF A COOL, VENTILATED location will generally extend pump motor life. The unit can be mounted in any desired position. It is best to mount so that water dripping from loose port connection will not wet the motor. The pump head may be mounted at 90 degree increments on the motor to accommodate plumbing connections as needed.

### PLUMBING CONNECTIONS


Pumps have external hose threads and internal 3/8" pipe threads. Use hose that does not kink when bent or collapse due to the suction of the pump. Arrange hoses to trap liquid in pump body to wet the impeller. Wetting the impeller aids in priming and extends impeller life. All hoses must have airtight connections.

### HEAD VS. FLOW TABLE

PSI	Total Head		Capacity	
	Feet	Metres	GPM	LPM
2.1	5	1.5	1.8	6.8
4.3	10	3.0	1.7	6.4
8.7	20	6.1	1.6	6.1
17.4	40	12.2	1.2	4.5

Table shows approximate Head-Flow for new pump.

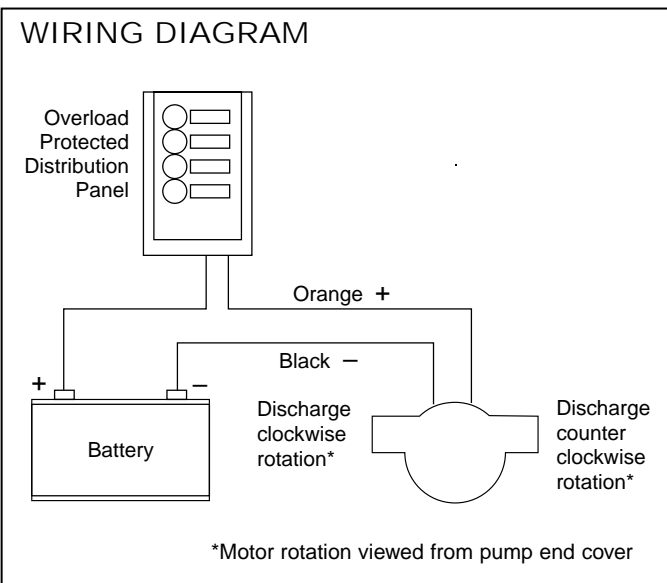
## ELECTRICAL CONNECTIONS



**WARNING**

Explosion hazard. If pump is operated in an area containing flammable vapors, wire leads must be joined by insulated mechanical locking connectors. Loose or inadequate wire connections can spark resulting in an explosion. Property damage, injury or death can occur.

Connect black wire to negative (-) terminal of battery. The orange wire should run to a properly sized (see electrical specification) overload protected switch or circuit breaker, with a wire from switch or breaker to positive (+) terminal of battery. Electrical circuit must be independent of all other accessories. Use proper wire size as determined by wire table elsewhere on this sheet.



**NOTICE:** Failure to use proper size fuse may damage motor and void warranty.

## ELECTRICAL SPECIFICATIONS

Model No.	Voltage	Amp Draw	Fuse Size
18620-0003	12V DC	7	10 Amp

## MINIMUM WIRE SIZES

Wire Length Between Battery and Motor	Wire Gauge
1-10 ft. (3m)	#14
11-20 ft. (6m)	#10
21-30 ft. (9m)	#10

**NOTICE:** To prevent motor damage, use only multi-strand copper wire in size recommended. DO NOT use ordinary lamp cord or other substitutes.

## OPERATION

Flexible impeller pumps must NOT be run dry, as the pumped liquid is the lubricant for the impeller. Observe the outlet and shut off pump as soon as liquid stops flowing.

The pump cannot run against a closed outlet such as encountered when using a garden hose type shut-off nozzle.

Temperature of pumped liquid may be in the range of 45° - 160°F (10° - 70°C).

Pressure for normal operation should not exceed 40 feet of head (17.4 psi).

## MAINTENANCE

Check wires and connections to be sure corrosion is not adding additional resistance to the motor circuit and causing a low voltage condition at the motor. Low voltage can inhibit starting and cause fuse to blow. Full voltage should be available to prevent motor damage.

**NOTICE:** If pump is idle for extended periods, the impeller may stick to the pump body, preventing motor rotation and causing blown fuses. To correct, remove end cover and impeller. Clean body and impeller, then lubricate with water or small amounts of grease before assembly.

If pump is to be in freezing temperatures, drain by loosening end cover.

A service kit, or at least a spare impeller, should be carried aboard to be assured of pumping capability.

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For technical advice or service please take your pump into your local pump service center.  
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