



## Model 18670-Series

### COMMERCIAL DUTY WATER PUPPY

#### FEATURES

- Body:** Bronze
- Impeller:** Jabsco Nitrile compound
- Seal:** Lip Type
- Ports:** 1/2" Internal Pipe Threads  
 1" External Hose Barb  
 Adapter for 3/4" External Garden  
 Hose Thread included
- Motor:** Permanent magnet type, fully enclosed,  
 stainless steel shaft, ball type shaft  
 bearing, has adequate torque to  
 reverse the pump
- Dimensions:** 3" (76mm) high, 6-7/8" (175mm) long,  
 4-3/4" (120mm) wide
- Weight:** 6 lb (2.7 kg)

Motor meets USCG Electrical Standard 183.410 and ISO 8846 MARINE for IGNITION PROTECTION on gasoline powered vessels.

**⚠ 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 bilge pumping, livewell circulation, washdown and general pumping requirements. For intermittent duty, motor may be reversed to empty bait tank.

Pump has a dry prime suction lift of about 6 feet (2m) and a lift to 20 feet (6m) 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 rotated 180° on the motor to change the direction of flow.



Model 18670-Series

Model	Voltage
18670-0123	12 Vdc
18670-0923	12 Vdc <b>CE</b>
18670-0943	24 Vdc <b>CE</b>


#### PLUMBING CONNECTIONS

Pump ports have external 1" hose barb and internal 1/2" pipe threads. Also provided are two male port adapters to allow the attachment of 3/4" female garden hose fittings. Use hose that does not kink when bent and with sufficient wall thickness to prevent collapse when used on suction side of pump. Hoses should be routed so that some water will be retained in pump body to wet the impeller. Wetting the impeller aids in priming and extends impeller life. Use a strainer on the intake hose to stop trash and solids from going through the pump. All hoses must have airtight connections to enable faster priming.

PSI	Total Head		Capacity	
	Feet	Meters	GPM	LPM
2.1	5	1.5	9	34.1
4.3	10	3.0	8.4	31.8
6.5	15	4.6	7.7	29.1
8.7	20	6.1	6.9	26.1

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 specifications) 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. A reversing switch may be used to reverse the pump (JABSCO Part Number 18753-0652). Preferred motor rotation is clockwise looking at shaft end of motor. To prolong motor life, install pump so normal motor rotation is clockwise. Use proper wire size as determined by wire table below.

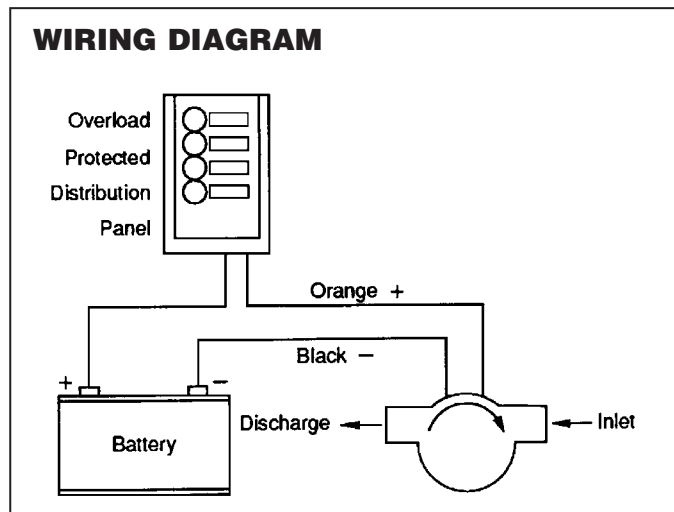
## OPERATION

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. An automatic level switch is convenient to control the pump in some applications.

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

Pressure for normal operation should not exceed 20 feet of head (8.7 psi).

Temperature of pumped liquid may be in the range of 45° - 180°F (7° - 82°C).



## ELECTRICAL SPECIFICATIONS - MINIMUM WIRE SIZE

Model No.	VOLTAGE	AMP DRAW	FUSE SIZE	WIRE SIZE PER FEET OF RUN*			
				0'-10'	10'-20'	20'-30'	30'-40'
18670-0123	12 Vdc	11.5	20	#14 (2.5)	#12 (4)	#10 (6)	#10 (6)
18670-0923	12 Vdc	11.5	20	#14 (2.5)	#12 (4)	#10 (6)	#10 (6)
18670-0943	24 Vdc	5	10	#16 (1.5)	#16 (1.5)	#16 (1.5)	#14 (2.5)

\* Length of run is combined length of positive and negative conductors from power source to pump and back to ground. Wire size is SAE gauge and metric (millimetres<sup>2</sup>).

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