



Model 18510-0010


COMMERCIAL DUTY "CENTRI PUPPY"


Bronze Centrifugal DC Motor/Pump Unit

FEATURES

Body & Impeller	Bronze
Seal	Carbon/Ceramic with Buna N
Port Size	3/4" NPT Internal
Motor	12 Volt DC Permanent Magnet, Fully Enclosed, Ignition Protected
Shaft	Stainless Steel
Weight	8 lb, (3,6 kg) approx.

Motor meets USCG Electrical Standards (Title 33, Chapter I, Part 183; Subpart I) 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.
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	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.
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APPLICATION

Suited for many general pumping applications where a flooded intake condition exists. This pump is NOT SELF-PRIMING. Typical uses include diesel fuel transfer (NOT GASOLINE), feed pump for spraying systems, irrigation, cooling systems for dairy, watering stock, washdowns, vehicle heating systems, machinery cooling systems and cutting saw blade cooling.



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PERFORMANCE (Nominal 12 Vdc System)

AMPS	*FUSE/ BREAKER	PSI	FEET OF WATER	GPM
21	25	open	open	25
18	25	4.3	10	20
17	25	5.2	12	18
16	25	6.0	14	15
13	25	6.9	16	13
3	25	9.0	18	Shut-off

INSTALLATION

The pump must be mounted in a dry location -the motor is not waterproof and must not be submerged. The unit can be mounted in any desired position. It is best mounted 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 allow mounting as needed.

* Customer supplied, not included with pump.

⚠ WARNING

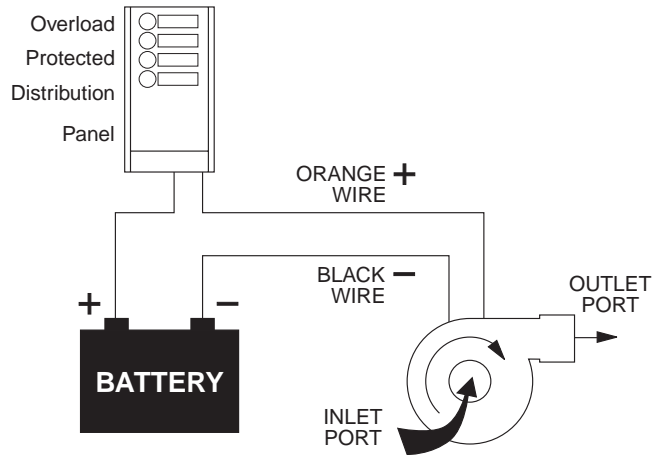


Explosion hazard. If pump is operated in an area containing flammable vapors, wire leads must be joined by insulated mechanical locking connectors. Loose or inadequate wire connections can spark resulting in an explosion. Property damage, injury or death can occur.

ELECTRICAL CONNECTIONS

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 a positive (+) terminal of battery. Electrical circuit must be independent of all other accessories. To prolong motor life, install pump so normal motor rotation is clockwise. Use proper wire size as determined by wire table elsewhere on this sheet.

WIRING DIAGRAM



PLUMBING CONNECTIONS

The intake and outlet ports have internal 3/4" pipe threads. Brass or plastic pipe fittings may be used to suit the installation. Plastic fittings that may be subject to cracking due to vibration should not be used below the waterline. PTFE pipe joint tape or compound should be used if brass fittings are installed in pump. Hose maybe used with common pipe adapter installed in the pump ports.

WIRE SIZE TABLE

CONNECTION LENGTH BETWEEN BATTERY AND MOTOR	12V	24V
1-10 ft. (3m)	#12	#16
11-20 ft. (6m)	#10	#16
21-30 ft. (9m)	8	#12

⚠ WARNING



Motor runs hot; about 180° is normal temperature. Prolonged contact during operation can cause a burn.

OPERATION

The pump may be run dry for short periods of time. Running without liquid allows heat to build up between seal and shaft, thus shortening seal life. The pump can run against a closed outlet such as encountered when using a garden hose type shut-off nozzle. Small particles of trash and debris will pass through the pump, though an intake strainer should be fitted if excessive problems are encountered with pump clogging.

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