DC PURGING PUMPS

Operation:

The DC Purging Pump (models TR-040 and TR-060) is designed to be operated underwater. It is a submersible pump. The pump will begin pumping water once it is: a) submerged and air is completely purged from the inside of the pump, and b) electrically activated by connecting it to a 12 volt power source. The pump cable is equipped with a quick-connect adaptor normally connected to alligator clips for clamping on a 12 V battery. An optional Cigarette Lighter Assembly (TR-207) can be substituted for the alligator clips and make it easier to connect to a vehicle's 12 V electrical power.

The unit will deliver 5 gallons per minute on level ground, and can deliver water as high as 60 ft (for model TR-060) when receiving 14 volts at the pump. No more than 14 volts should be supplied to the pump. It will operate with as little as 8 volts, but the flow rate is dependent upon the voltage reaching the pump. Turbid, dirty or silty water can affect the pump. If the water is too thick, almost mud, then the pump will quickly fail.

Polarity is not an issue with the 12 V pump. The motor inside can spin in either direction and water will be pumped equally well no matter to which side of the 12 V battery each lead is connected.

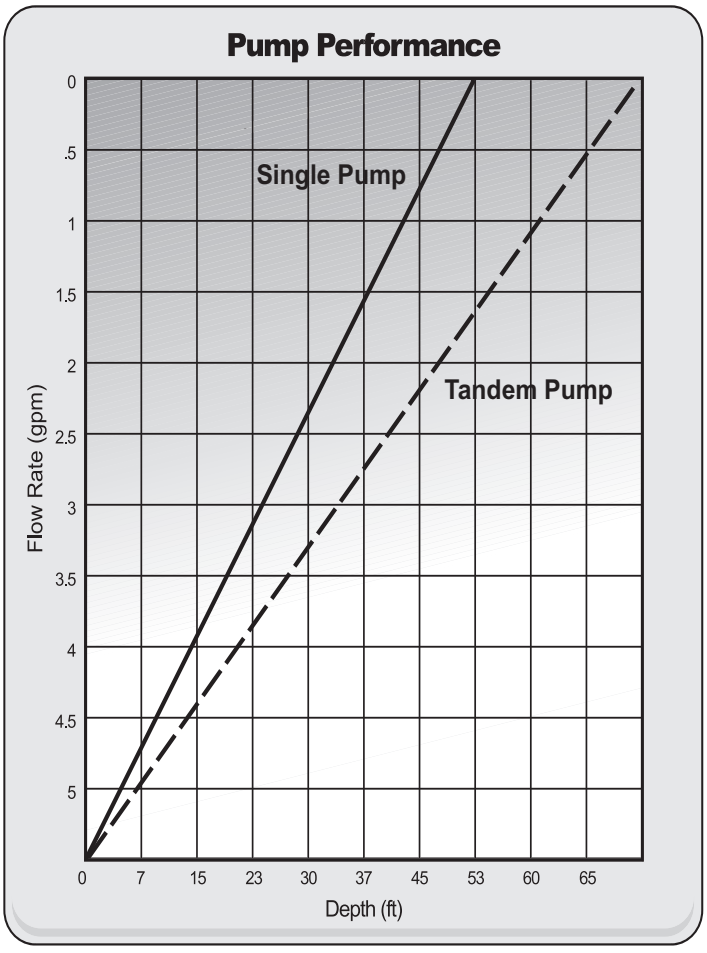
The pump should not be run dry. Less than 3 minutes of dry running will not harm the pump but longer periods of dry running will cause the motor to overheat and will result in early failure.

Care should be taken to assure that the electrical connections leading to the pump are watertight to prevent electricity from escaping into the water when the unit is pumping. The pumps can be run for quite long periods, but it is advisable to allow a cool down period of 10 minutes for every half hour of continuous run time.

Maintenance

This pump is fitted with a strainer which should be inspected and cleaned at frequent intervals. As the pump is completely sealed, it cannot be disassembled and requires no maintenance. The DC Purging Pump is not rebuildable.

During periods of freezing weather insure that the pump does not freeze while filled with water as irrepa-



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