

## WARNING - WATERBED PUMP

Any piece of equipment can be dangerous if not operated properly. **YOU** are responsible for the safe operation of this equipment. The operator must carefully read and follow any warnings, safety signs and instructions provided with or located on the equipment. Do not remove, defeat, deface or render inoperable any of the safety devices or warnings on this equipment. **IF** any safety devices or warnings have been removed, defeated, defaced or rendered inoperable, **DO NOT USE THIS EQUIPMENT!!!**

- This 120-volt equipment requires a grounded outlet, do not modify plug.
- Always wear eye, dust, and hearing protection.
- Don't Abuse Cord - Never carry tool by cord, or yank it to disconnect from receptacle.
- Do not use around flammable liquids or gasses, sparks could cause fire or explosion.

### INSTALLATION

1. Locate pump as close as possible to water being pumped. Pump must be less than 10 feet above water reservoir and less than 25 feet (7.6m) to one side of reservoir.
2. To help priming, pour one tablespoon of cooking oil or mineral oil in inlet port before each use. Do this every time you start the pump.
3. Mount pump solidly on a stable platform. **Risk of electrical shock.** Protect motor from rain or washdown; it is enclosed but not waterproof.
4. Make sure washer in inlet fitting is clean and in good condition. If this joint leaks air in, pump will not operate.
5. Install a strainer or the Pud-L-Scoop® to protect the pump from large solids (Pud-L-Scoop® is included with Models M40P-01 and M40P-03 only). When attached to a water suction pump, the Pud-L-Scoop® will pump water down to within 1/8" of the surface it is sitting on. Uses include floors, roofs, pool covers, and boat bilges. The thread less rubber grommet can be connected to a 3/4" pipe or garden hose. The washer end of the rubber grommet inserts into the Pud-L-Scoop® and the tapered end is for the hose connection. Place the Pud-L-Scoop® at the lowest point in the area to be pumped and it is ready for use.
6. Attach inlet and discharge hoses to pump. Use a reinforced inlet hose 1/2" in diameter or larger. Be sure inlet hose is airtight and that both hoses are free of kinks and restrictions.
7. Make sure hoses are as straight as possible. Coils in the hoses can develop enough friction to prevent pump from operating.
8. When pumping from a well or stream, raise inlet hose a few inches from the bottom to prevent pump sucking sand, silt or pebbles (foreign matter will disable impeller).
9. Plug motor cord into a 3-wire grounded 115-volt 60 Hz. A.C. outlet. If necessary, use a 3-wire, grounded extension cord to connect the pump motor to the grounded outlet. Use a size 16 AWG cord up to 25 feet; do not use a cord more than 25 feet long. Keep the pump, cord, and outlet dry at all times. Use this pump only on 115-volt circuit. Pump is equipped with an approved 3-conductor cord and 3-prong, grounding type plug. To reduce the risk of electric shock, be certain that it is connected to a properly grounded, grounding-type receptacle. Where a 2-prong wall receptacle is encountered, it must be replaced with a properly grounded 3-prong receptacle installed in accordance with the National Electrical Code and local codes and ordinances.

### **NOTICE: PUMP DEPENDS ON LIQUID BEING PUMPED FOR LUBRICATION. DO NOT RUN PUMP DRY!**

10. Pump should prime within 30 seconds. If not, unplug pump and do the following:
  - a. Disconnect inlet hose at pump. Pour another tablespoon of mineral oil into inlet port.
  - b. Check washers in inlet hose and make sure inlet line is airtight.
  - c. Make sure inlet and discharge line are free of kinks and restrictions.
  - d. Make sure pump is less than 10' above and 25' to one side of water source.
11. If pump does not prime within 30 seconds, check step 10. If pump still fails to prime, do the following:
  - a. If impeller is worn, replace it. b. If pump head is internally worn, replace it. ***c. Remember to add one tablespoon of oil every time you start the pump.***

NOTICE: When using the Pud-L-Scoop®, inspect the washer in the garden hose fitting to be sure it is in good condition. Be sure connections are airtight. The Pud-L-Scoop® requires at least 1/2" (12.7mm) minimum water depth to prime.

### OPERATION

NOTICE: Do not run pump dry. Pump depends on water being pumped for lubrication. If pump does not prime in less than 30 seconds, recheck installation and plumbing.

Pump will deliver 330 gallons (1249L) per hour (5.5 gallons (20.8L) per minute) when discharge is not restricted. As discharge is restricted and discharge pressure increases, capacity will decrease. Do not operate pump continuously at a discharge pressure of more than 12 psi (83 kPa) or discharge lift of more than 28' (8.5M). Motor will exceed the normal safe operating temperature and can heat to 180°-190° F (82°-88° C) when operated continuously at discharge lifts of more than 28' (8.5M).

Motor overload may trip if motor temperature rises too high. Motor must have air circulation around it for proper cooling. If motor overload trips, allow motor to cool for 30 minutes before attempting to start pump. Risk of burns. During normal operation, motor case may heat enough to burn you. Do not touch the motor when it is hot.

Plug motor cord into 3-wire grounded 115 volt A.C. outlet 60 Hz. Risk of fire or explosion if used to pump flammable liquids or if used in explosive atmospheres. Pump water only with this pump! Pump is designed to pump at water temperatures between 32°-77° F

If the person receiving this handout will not be the user of the equipment, forward these instructions to the operator. **IF** there is any doubt as to the operation or safety of the equipment, **DO NOT USE!!! CALL A TOOL SHED IMMEDIATELY!!! FAILURE TO FOLLOW THESE INSTRUCTIONS COULD RESULT IN INJURY OR DEATH**