

SUBMERSIBLE UTILITY PUMP

User Manual



Please read and understand all instructions before use. Retain this manual for future reference.

SUBMERSIBLE UTILITY PUMP

SPECIFICATIONS

Model	20400180-23-14HP	20400180-23-13HP
Max. Flow Rate	2000GPH	2500GPH
Horsepower	1/4HP	1/3HP
Max. Discharge Head	25ft	28ft
Motor	Copper Motor	
Discharge	3/4 in. Garden hose or 1-1/4 in. Pipe Thread	
Housing Material	Thermoplastic	
Impeller Material	Thermoplastic	
Operating Temperature Range	0 to 35 °C	

INTRODUCTION

Multi-purpose for emergency basement and sump draining, emptying ponds, aquariums, window wells and any other shallow areas. Pumps down to 1/8 in., has removable intake screen and features thermal overload protection.

SAFETY

WARNING! Read and understand all instructions before using this tool. The operator must follow basic precautions to reduce the risk of personal injury and/or damage to the equipment.

Keep this manual for safety warnings, precautions, operating or inspection and maintenance instructions.

- from the pump base. That will relieve the air vapor-lock.
- b. There might be something blocking the hose outlet. Remove the hose and turn the pump upside down. Shake it a few times to get any foreign matter out of the body of the pump.
- c. If the pump is not “humming” when it is plugged in - make sure that the pump is not hot - it could be waiting to cool down so the overheat (thermal) protection switch can reset.

When finished using your pump, remove hose connection and allow water to drain from the weep holes located on the base of the pump or you can pour out any remaining water inside the pump from the hose connection outlet.

THERMAL OVERLOAD PROTECTION

The utility pump has a built-in thermal overload protection system. The unit will automatically shut-off when the motor reaches a factory preset overheat level. Once the pump has been allowed to cool, it will reset and is ready to pump again. To cool the pump, either submerge it in a bucket of cold water for 20 minutes or allow it to cool naturally.

MAINTENANCE

1. Maintain the tool with care. A tool in good condition is efficient, easier to control and will have fewer problems.
2. Inspect the tool components periodically. Repair or replace damaged or worn components.
3. Inspect the tool fittings, alignment and hoses and power supply cord periodically. Have damaged or worn components repaired or replaced by an authorized technician.

WARNING! Only qualified service personnel should repair the tool. An improperly repaired tool may present a hazard to the user and/or others.

HAZARD DEFINITIONS

Please familiarize yourself with the hazard notices found in this manual. A notice is an alert that there is a possibility of property damage, injury or death if certain instructions are not followed.

WARNING! This notice indicates a specific hazard or unsafe practice that could result in severe personal injury or death if the proper precautions are not taken.

NOTICE! This notice indicates that a specific hazard or unsafe practice will result in equipment or property damage, but not personal injury.

WORK AREA

1. Operate in a safe work environment. Keep your work area clean, well lit and free of distractions.
2. Keep anyone not wearing the appropriate safety equipment away from the work area.
3. Store tools properly in a safe and dry location. Keep tools out of the reach of children.
4. Do not install or use in the presence of flammable gases or liquids.

SPECIFIC SAFETY PRECAUTIONS

WARNING! Risk of fire or explosion. Do not pump flammable or explosive fluids such as gasoline, fuel oil, kerosene, etc.

1. Do not insert a finger or any object into the pump or motor openings.
2. Do not handle the pump motor with wet hands or when standing on a wet or damp surface.
3. The motor has built-in thermal protection. This protects the motor against burnout due to low voltage, high voltage and other causes such as an overload. The tool is automatic and resets itself once the temperature has dropped to a safe point. Frequent tripping of the tool indicates trouble in the motor or power lines. Discontinue use until a qualified electrician has inspected the pump.
4. Do not pump liquids that exceed 95°F(35°C). This will overheat the pump and the thermal protection system will shut the pump down until it has cooled down.
5. This pump is designed to handle clear water. Any of the following can clog the pump or damage the pump system:
 - a. Physical obstruction such as sand, dirt, debris or water scale/rust.
 - b. Caustic liquids like salt water, brine, laundry discharge or any other liquid containing caustic chemicals and/or foreign materials.
 - c. Flammable or explosive fluids such as gasoline, fuel oil, kerosene, etc.
6. Do not allow pump or any other system component to freeze, as this can damage the pump during operation.
7. Do not run the pump dry. This will cause cavitation in the pump mechanism and can damage the pump beyond repair. Place the pump in the water first and then plug it in.
8. Use the correct tool for the job. This tool was designed for a specific function. Do not modify or alter this tool or use it for an unintended purpose.

GENERAL SAFETY PRECAUTIONS

Electrical Safety

WARNING! To reduce risk of electric shock, be certain that the plug is connected to a properly grounded receptacle.

1. Always unplug the pump before placing it in water or removing it from water to avoid an electric shock.
2. Protect yourself against electric shocks when working on electrical equipment. Avoid body contact with grounded surfaces. There is an increased chance of electrical shock if your body is grounded.
3. Do not alter any parts of the tool or accessories. All parts and accessories are designed with built-in safety features that may be compromised if altered.
4. Make certain the power source conforms to requirements of your equipment (see Specifications).
5. This tool is only for use on 120V (single phase) and is equipped with a 3-prong grounded power supply cord and plug.
 - a. Use in conjunction with a Ground Fault Circuit Interrupter (GFCI). If operating a tool in a damp location is unavoidable, the use of a GFCI reduces the risk of electric shock. It is recommended that the GFCI should have a rated residual current of 30 mA or less.
6. DO NOT use this tool with a 2-prong wall receptacle.
 - a. Choose an available 3-prong power outlet.
 - b. Replace 2 prong outlet with a grounded 3-prong receptacle, installed in accordance with the CE Code and local codes and ordinances.

Power Cord

1. Keep the power cord and extension cord out of the water to avoid an electric shock.
2. Insert the power cord plug directly to the power supply whenever possible. Use extension cords or surge protectors only when the tool's power cord cannot reach a power supply from the work area.
 - a. Only use grounded extension cords with a minimum of 16 gauge wire.
 - b. When operating a power tool outside, use an outdoor extension cord marked W-A or W. These cords are rated for outdoor use and reduce the risk of electric shock.
3. Do not operate this tool if the power cord is frayed or damaged as an electric shock may occur, resulting in personal injury or property damage.
 - a. Inspect the tool's power cord for cracks, fraying or other faults in the insulation or plug before each use.
 - b. Discontinue use if a power cord feels more than comfortably warm while operating the tool.
 - c. Have the power cord replaced by a qualified service technician.
4. Keep all connections dry and off the ground to reduce the risk of electric shock. Do not touch plug with wet hands.
5. Prevent damage to the power cord by observing the following:
 - a. Never use the cord to carry the tool.
 - b. Do not pull on the cord to disconnect the plug from an outlet.
 - c. Keep cord away from heat, oil, sharp edges or moving parts.

6. Do not allow people, mobile equipment or vehicles to pass over unprotected power cords.
 - a. Position power cords away from traffic areas.
 - b. Place cords in reinforced conduits.
 - c. Place planks on either side of the power cord to create a protective trench.
7. Do not wrap cord around tool as sharp edges may cut insulation or cause cracks if wound too tight. Gently coil cord and either hang on a hook or fasten with a device to keep cord together during storage.

PARTS IDENTIFICATION

WARNING! Do not operate the tool if any part is missing. Replace the missing part before operating. Failure to do so could result in a malfunction and personal injury.

Remove the parts and accessories from the packaging and inspect for damage. Make sure that all items in the parts list are included.

Contents:

- Pump with 3/4 in. garden hose adapter

OPERATION

WARNING! Always unplug the pump before placing it in water or removing it from water to avoid an electric shock.

NOTICE! The utility pump is designed for temporary use in a specific situations. It is not designed for use as a sump or fountain pump. Continual use will damage the pump or render it inoperable.

The utility pump has a 3/4 in. adapter for the 1-1/4 in. outlet.

A garden hose that is no longer than 25 feet in length can be fitted to the outlet or adapter to pump water. Using a hose that is longer or has a smaller diameter will reduce flow rate and increase the strain on the pump to move the water.

1. Screw the female side of a standard 3/4 in. garden hose to the pump's threaded discharge outlet. Remove the adapter to connect to a 1-1/4 in. thread pipe
2. Place the utility pump into the water. The level must be deeper than 1/8 in. for the pump to work.
3. Step away from the water and the pump onto a dry surface, then plug the pump into a grounded outlet.
4. If you can hear a hum from the pump when it's plugged in, that means that the pump is working. The pump may take a few minutes to prime and start to pump. It is equipped with a discharge outlet to prevent a vapor-lock. A small stream of water coming from this outlet is normal.
5. If the pump does not move water, try the following:
 - a. There might be a pocket of air that is blocking the water from getting into the pump outlet. While pump is submersed, try tilting the pump onto its side and let air escape