

VEVOR[®]

TOUGH TOOLS, HALF PRICE

Technical Support and E-Warranty Certificate

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PORTABLE UTILITY PUMP

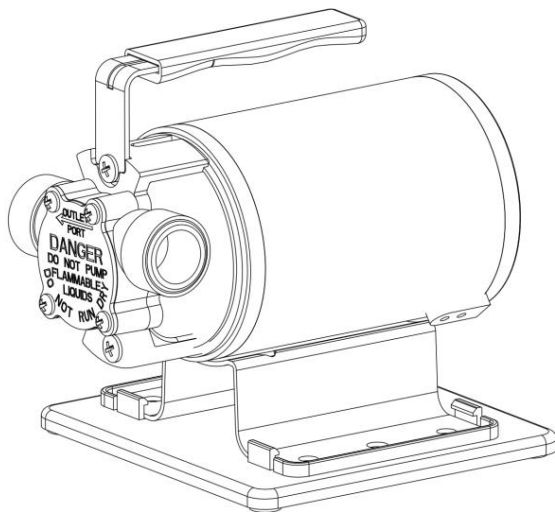
INSTRUCTIONS

MODEL: ZX50012

We continue to be committed to provide you tools with competitive price.

"Save Half", "Half Price" or any other similar expressions used by us only represents an estimate of savings you might benefit from buying certain tools with us compared to the major top brands and does not necessarily mean to cover all categories of tools offered by us. You are kindly reminded to verify carefully when you are placing an order with us if you are actually saving half in comparison with the top major brands.

MODEL: ZX50012



NEED HELP? CONTACT US!

Have product questions? Need technical support? Please feel free to contact us:

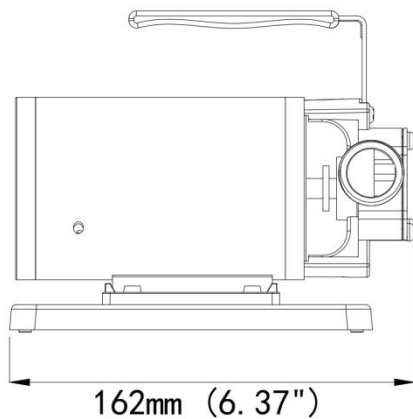
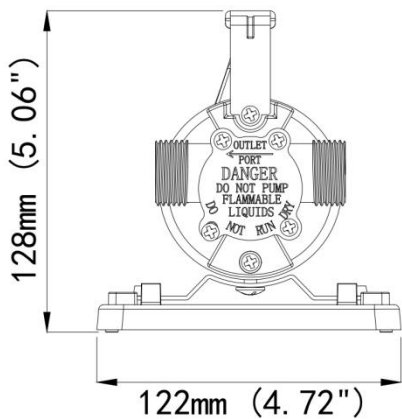
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This is the original instruction, please read all manual instructions carefully before operating. VEVOR reserves a clear interpretation of our user manual. The appearance of the product shall be subject to the product you received. Please forgive us that we won't inform you again if there are any technology or software updates on our product.

Please read and save these instructions. Read it carefully before attempting to assemble, install, operate or maintain the product described in this manual. Protect yourself and others by observing all safety information. Failure to comply with these instructions could result in personal injury and/or property damage. Retain these instructions for future reference.

SPECIFICATIONS

Voltage	DC12V	Current	13A
Power	1/10 HP	Max Flow	360GPH
Max Head Lift	46 ft	Inlet/Outlet Diameter	GHT3/4



NOTE: Do not soak the pump in water as it will be damaged.



This pump is designed to pump water at temperatures between 32°F-120°F only.

GENERAL SAFETY INSTRUCTIONS

This equipment is only for use with an automotive, tractor, or marine-type battery fully charged to 12 Volts DC.



Risk of fire or explosion.

Risk of fire or explosion if used to pump flammable liquids or if used in explosive atmospheres.



Risk of burns.

During normal operation, the motor case may get hot enough to burn you. Do not touch the motor when it is hot.



Risk of Injury or Death.

Do not submerge the motor or allow the motor to be exposed to water. Personal injury or death could result. Keep motor and power cords away from liquids.



Risk of electric shock. Battery current can cause severe burns and start a fire if the battery is short-circuited.



Risk of electric shock. Can shock, burn or kill. Do not walk in a wet area. Do not light the pump with the power cord.



Risk of burns. Battery posts, terminals, and related accessories

contain lead and lead compounds, chemicals known to the State of California to cause cancer and reproductive harm. Wash hands after handling.

1. Know the pump application, limitations, and potential hazards.
2. Do not use this pump in water with fish present.
3. Release all pressure within the system before servicing any component.
4. Drain all water from the system before servicing.
5. Secure the discharge line before starting the pump. An unsecured discharge line can whip, possibly causing personal injury and/or property damage.
6. Check hoses for weak or worn conditions before each use, making certain all connections are secure.
7. Periodically inspect the pump and system components. Keep the pump free of debris and foreign objects. Perform routine maintenance as required.
8. Provide a means of pressure relief for pumps whose discharge lines can be shut off or obstructed.
9. Personal Safety:
 - a. Wear safety glasses at all times when working with the pumps.
 - b. Keep the work area clean, uncluttered, and properly lighted.
 - c. Keep visitors at a safe distance from the work area.
10. When wiring a DC pump, follow all of the electrical and safety codes that apply.
11. All wiring is to be 12 gauge stranded copper wire that is water-resistant, oil-resistant, and flame resistant.
12. Use insulated crimp-type connectors.
13. Protect the electrical wires from sharp objects, hot surfaces, oil, and chemicals. Avoid kinking the wires. Replace or repair damaged or worn wires immediately.
14. Do not touch an operating motor. Motors can operate at high temperatures. The recommended environment is 0-35 ° C.

15. Do not handle the pump or pump motor or change wiring with wet hands or when standing on a wet or damp surface or in water.

NOTICE: This pump is equipped with a permanent magnet type 12 Volt reversible DC motor. Be sure it is connected properly as illustrated in the direction of flow indicated by the arrow on the pump case.

NOTICE: This pump is not designed for applications involving salt water or brine! Use with salt water or brine will void the warranty.

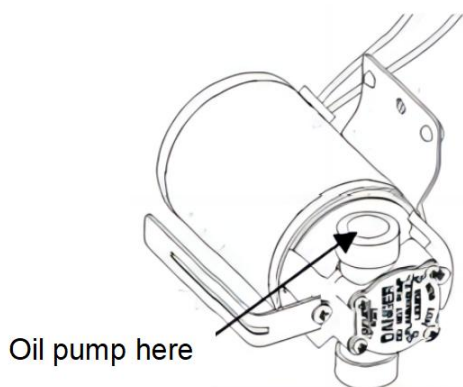
NOTICE: Never operate the pump for more than two hours at a time. Never run the pump dry!

NOTE: Do not soak the pump in water as it will be damaged.

INSTALLATION AND OPERATION

1. PLACE THE PUMP on a stable surface. The pump should be less than 10' above and less than 10' to one side of the water source.

2. TO EXTEND THE LIFE OF THE INTERNAL IMPELLORA Add oil the to pump before use. When the pump starts, there is no liquid in the unit. Until the pump is primed and water is flowing through, the lubrication added will prolong the impeller's life. Oil the pump with 1/2 tablespoon of food-grade vegetable oil or mineral oil with each use. Pour the oil into the water inlet port. **DO NOT RUN THE PUMP DRY!** If the pump does not start to move water in 30 seconds or less, recheck the installation and plumbing.

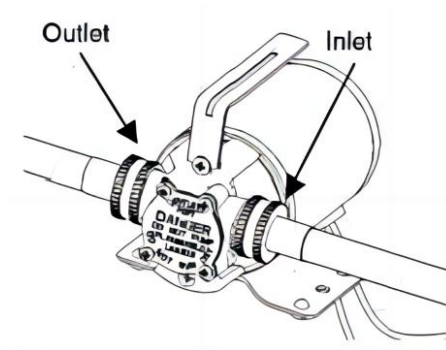


3. CONNECT THE HOSES(1/2" diameter reinforced hose or larger)

For best operation, prime the pump by filling the inlet hose with water and put the open end of the hose in the water you wish to pump.

With a washer installed, attach it to the inlet side of the pump. If this joint leaks air, the pump will not operate. The pump should be less Than 10' above and less than 10' to one side of the water source.

Make the outlet hose as short as possible - 25' or less.

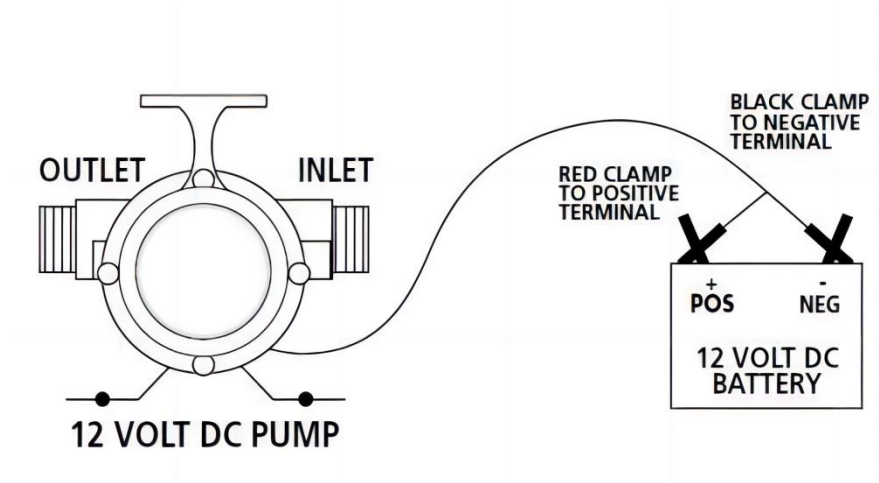


KEEP THE HOSES AS STRAIGHT AS POSSIBLE

To reduce friction and move as much liquid as possible, do not coil or kink the hoses. When pumping from a well or stream, raise the inlet hose a few inches off the bottom to avoid sucking in sand, silt, or pebbles (which can destroy and disable the impeller). Use the included suction screen attachment to protect the pump from large solid objects.

INLET HOSE GOES IN THE WATER; THE OUTLET HOSE STAYS OUT OF THE WATER. MOTOR MUST STAY DRY. Make sure all inlet connections are tight (no air/water leaks) and the inlet hose is in the water. Make sure the end of the outlet hose is not underwater. If the outlet hose is underwater, the pump may not work.

4. Connect the Motor to the Battery



This DC motor must be connected to a fully charged 12-volt automotive, tractor, or marine-type battery. Do not connect the motor to any other voltage battery. Connect the battery clips to the suitable battery properly. The red color wire should go to the positive(+)terminal of the battery, And the black color wire should go to the negative(-) terminal of the battery. You should get water in 30 seconds or less. If not, remove the hose from the pump inlet port, add a tablespoon food grade vegetable or mineral oil to the inlet port and repeat the process. If your pump does not prime on the second try, check the impeller and the inside of the pump head for wear. Replace the impeller as needed.

5. DISCONNECT THE PUMP FROM THE BATTERY

Unplug the pump before all the water is completely gone. To extend the impellor life, DO NOT ALLOW THE PUMP TO RUN DRY!
Before storage, run clean water through the pump. Drain hoses of all liquids and allow the pump to dry completely.

TROUBLESHOOTING CHART

SYMPTOM	PROBABLE CAUSE(S)	CORRECTIVE ACTION
Pump won't prime	· Pump body not oiled · Suction hose too long or too small · Suction leaks · Suction hose kinked or coiled · Worn impeller	· Add oil through the inlet port · Use a 1/2" suction hose, 25' long or less · Replace hose water and check for leaks in hose · Straighten out the suction hose · Replace impeller
Pump leaks	· Cover O-ring leaks · Worn impeller	· Replace cover O-ring · Replace impeller
Pump runs, pump little or no water	· Suction or discharge hose kinked or coiled · Impeller blocked	· Straighten out the hose · Remove blockage
Pump stopped running.	· Pump running too hot and overheated · Suction lift too high · Output hose length too long	· Move the motor to the area that allows the motor to cool · Disconnect the motor from the power supply and allow the motor to cool for up to 30minutes · Reduce pump lift · Shorten output hose length

*There are any minor changes to the numbers included in the user manual without prior notice.

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