TOLSEN FORCE XPRESS

# 79977

# SUBMERSIBLE CLEAN WATER PUMP

**INSTRUCTION MANUAL** **230V~50Hz 750W**


SAVE THIS MANUAL !
You will need this manual for safety instructions, operating procedures and warranty.
Put it and the original sales receipt in a safe dry place for future reference.

## WARNING

### Before start-up, note the following

The Pump must be connected to a Ground Fault Circuit Interrupter (GFCI) protected plug which has been installed according to regulations. The plug must have a supply voltage of 230 VAC at 50 Hz.

### CAUTION

This Pump has been evaluated for use with water only.

**IMPORTANT! For your own safety before starting to run the Pump, please have the following items checked by an expert:**

1. Risk of electric shock – This Pump is supplied with a grounding conductor and grounding-type attachment plug. To reduce the risk of electric shock, be certain that it is connected only to a properly grounded, grounding-type receptacle.
2. Risk of electric shock – This Pump has not been investigated for use in swimming pool areas.
3. The electrical connections must be protected from moisture.
4. If there is danger of flooding, the electrical connections must be taken to higher ground.
5. Circulation of caustic fluids, as well as the circulation of abrasive materials, must be avoided at all costs.
6. The Pump must be protected from frost.
7. The Pump must be protected from running dry.
8. Access by children should also be prevented with appropriate measures. 
9. To prevent death from electric shock, Pump must be connected only to a GFCI protected outlet.
10. Do not use an extension cord with this item.
11. People with pacemakers should consult their physician(s) before use. Electromagnetic fields in close proximity to heart pacemaker could cause pacemaker interference or pacemaker failure.
12. The warnings, precautions, and instructions discussed in this instruction manual cannot cover all possible conditions and situations that may occur.

It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.

### Fluid Type

The Pump is designed for use with water with a maximum temperature of 77° F (25°C).
Do not use the Pump for other fluids, especially not fuels, cleaning fluids, or other chemical products.

## SPECIFICATIONS

| | |
|---|---|
| Voltage | 230V~50Hz |
| Input power | 750W |
| Horsepower | 1.0Hp |
| Power Cord Length | 8m |
| Maximum Flow | 120L/min |
| Maximum Head lift | 32m |
| Pipe diameter | 1'' |

## INSTALLATION

The submersible motor pump must be installed in a stationary position with either:
a.A fixed pipeline Or b. A flexible hose pipe.

### Please note!

1. Do not install the pump by suspending it unsupported from its delivery pipe or power cord. The pump must be suspended from the handle or be placed on the bottom of the basin. To ensure that the pump works properly, keep the bottom of the basin free from sludge and dirt of all kinds.
2. If the water level sinks too low, any sludge in the basin will dry out and stop the pump from starting. To help ensure the pump will start as required, check the pump regularly with start-up tests.

### Power Supply

1. The Pump is equipped with a shock-proof plug according to regulations. The Pump is designed to be connected to a 230 VAC, 50 Hz GFCI protected socket.
2. Make sure that the socket is sufficiently secured and is in excellent condition.
3. When the plug is inserted into the socket, the Pump will be on standby.
4. **WARNING!: To prevent death from electric shock, Pump must be connected only to a GFCI protected outlet.**
   **WARNING!** If the power cord or plug is damaged, do not use the Pump. The power cord or plug may only be repaired by a certified electrician.

### Areas of use

1. This Pump is designed to pump water only.
2. This Pump is designed to be used for: Pumping drinking water from shallow wells and cisterns. Irrigation systems.
3. This Pump should NOT be used for: Continuous run, fountain/pond water features. Water with dirt and debris.
4. This Pump can also be used to transfer water (e.g. household, farming, plumbing).

## OPERATION

After reading these instructions, consider the following points before starting the Pump:

1. Verify that the pump rests on the floor of the basin.
2. Verify that the discharge pipe is properly connected.
3. Verify that the electrical connection is 230V, 50 Hz.
4. Verify that the electrical socket is GFCI protected and in good condition. Test GFCI protected outlet before use.
5. Verify that water and moisture cannot get near the power supply socket.
6. Verify that the pump is installed so as to prevent running dry.

# MAINTENANCE

## Maintenance

**WARNING!**

TO PREVENT SERIOUS INJURY FROM ACCIDENTAL OPERATION: Unplug the Pump from its electrical outlet before performing any inspection, maintenance, or cleaning procedures.

If the Pump is moved during operation, flush it out with clean water after every use.

## Quarterly Maintenance

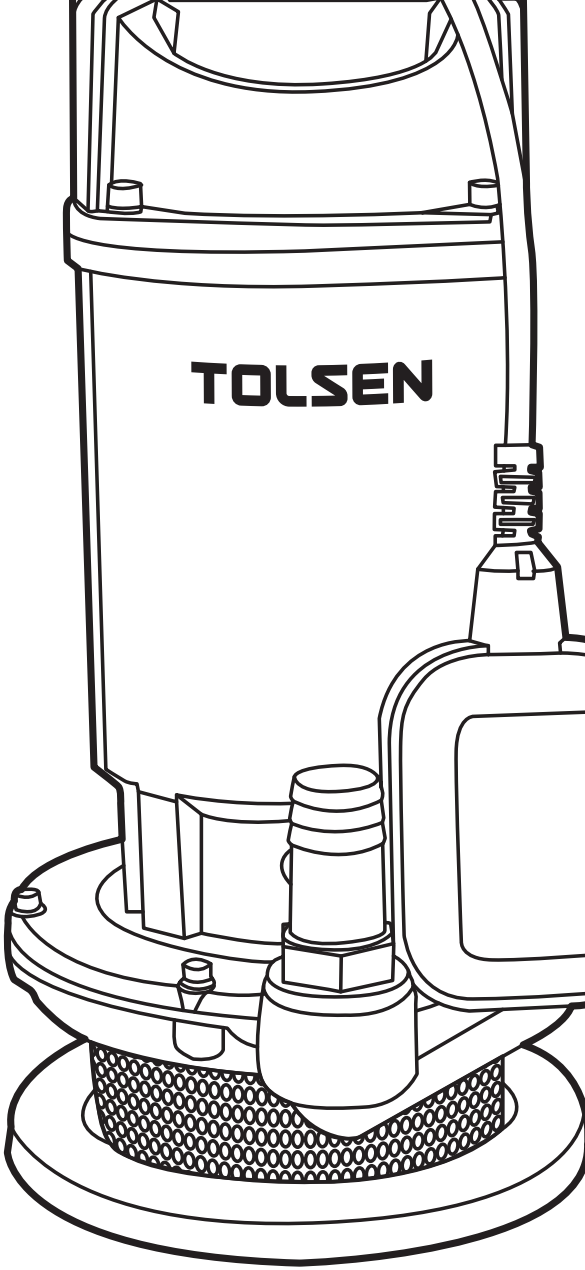
The below maintenance must be performed at least once every 3 months under optimal conditions. For frequent use, or dirty areas, more frequent maintenance is required.

1. Clean sludge and debris from the bottom of the basin.
2. Clean sludge/debris from inlet screen.
3. Make sure discharge pipe is free from leaks.
4. Make sure check valve is functioning properly.
5. Manually operate flow switch to determine that pump turns on/off as intended.

## TROUBLESHOOTING

| problem | possible causes | Likely Solutions |
|---|---|---|
| Pump runs, but will not deliver any water. | 1. Inlet Screen and/or impeller clogged.<br>2. Low line voltage.<br>3. Check valve (sold separately) stuck or installed backwards. | 1. Remove Inlet Screen. Clean out dirt and debris from Inlet Screen and impeller. Then replace Inlet Screen.<br>2. Consult an electrician.<br>3. Remove and examine check valve. |
| Pump won't start or run. | 1. Check power connections and circuits/fuses.<br>2. Inlet Screen and/or impeller clogged.<br>3. Defective motor | 1. Consult an electrician.<br>2. Remove Inlet Screen. Clean out Inlet Screen and impeller. Reinstall Inlet Screen.<br>3. Have a qualified service technician repair or replace. |
| Excessive noise or vibration. | 1. Debris in impeller.<br>2. Discharge hose restricted. | 1. Remove Inlet Screen. Clean impeller. Reinstall Inlet Screen.<br>2. Clean Pump and discharge hose. |
| Pump starts and stops too frequently | 1. Water temperature too high.<br>2. Check valve (sold separately) stuck or installed backwards.<br>3. Back flow of water from discharge hose. | 1. Do not exceed 77° F (25°C) water temperature.<br>2. Remove and examine check valve.<br>3. Install or inspect check valve (sold separately). |

Follow all safety precautions whenever diagnosing or servicing the Pump.
Disconnect power supply before service.
Do not disassemble the Pump or motor as this will damage the water seals.
All repairs should be performed by a qualified technician.

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