

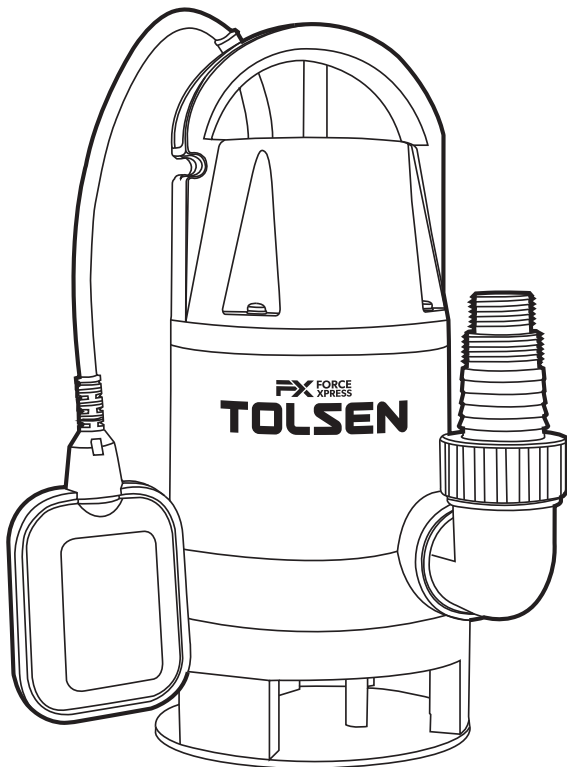
# TOLSEN FORCE XPRESS

## 79852

## PLASTIC SUBMERSIBLE PUMP (DIRTY WATER)

INSTRUCTION MANUAL

750W(1Hp)



**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.

Warnings for the safety of individuals and objects.

Carefully follow the instructions marked with the following symbols.

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

Children should be supervised to ensure that they do not play with the appliance.

	<b>DANGER</b> Electric shock risk	Warns that the failure to follow the directions given may cause electric shock.
	<b>WARNING</b>	This sign warns the operator that the failure to follow an instruction may damage the pump and/or the system. Also warns that the failure to follow the directions given could cause serious risk to individuals or objects.

## Features

**WARNING: Read this manual carefully before installing the pump.**



Carefully store this manual. If a problem occurs, before contacting the Customer Assistance Service, please verify that the pump has been used correctly and that the cause of the problem is not imputable to its operation. Every electro-pump is carefully tested and packed during its manufacturing process.

## Limitations




This electro submersible pumps are suitable to pump clean water or dirty water according to the data shown on nameplate. Pollution of the liquid could occur due to leakage of lubricants.

**Continuous duty.**

**Oil cooled motor.**

	<b>WARNING</b>	The pump cannot be used for inflammable, explosive or dangerous liquids.
	<b>WARNING</b>	Verify that the electro-pump never runs without liquids.

The specifications hereunder are referred to a configuration with a free and unreduced delivery mouth.

		<b>DANGER</b> <b>Electric shock risk</b>	When installing, please ensure electro-pump is disconnected from electrical supply. Pumps in this series can't use in a swimming pool and the relevant cleaning and servicing operations.
	<b>DANGER</b>		To prevent possible injuries to people, avoid inserting hands into th mouth of the pump if this is connected to the mains.






### Installation

1. Avoid using the electric cable to lift or transport the pump.
2. Use a stainless steel or nylon rope suitable to sustain the weight, to immerse the pump.
3. Two slots are present for allowing the anchoring of the head of the pump.
4. We recommend connecting the electric cable to the delivery pipe with plastic straps, at a distance of about 3 m., when using rigid piping.
5. It is also advisable to fit automatic level controls to prevent the electric pump from running without liquids and a pressure gauge (suitable to pump model) to verify its performance during operation.
6. Install the pump at least 20 cm. from the bottom of the well to avoid taking in sand, mud, etc.
7. Use a delivery pipe with a diameter equivalent to that of the delivery port of the pump.
8. When connecting fixed installations, the socket plug must be clearly visible and easily accessible.

### ATTENTION!!!

**Delivery pipes should be connected with the utmost care. Make sure that all connections fixed by means of screws are sealed. Avoid applying excessive strength to tighten the screws of connections or of other components. Use a teflon tape to completely seal all joints.**

### Electrical connections

	<b>WARNING</b>	Verify that the voltage and frequency of the electric pump shown on the nameplate correspond to those available on the mains.	
		<b>DANGER</b> <b>Electric shock risk</b>	The installer must make sure that the electric system is grounded in accordance with the law in force.
		<b>DANGER</b> <b>Electric shock risk</b>	Make sure that the electric system has a residual current device (RED) having a rated residual operating current not exceeding 30mA.




### Overload protection

1. The pumps have a built-in thermal protection. The pump stops Man overload condition oc.rs.
2. The motor restarts automatically after it has cooled down.
3. Therefore pump doesn't require any external protections.
4. Electrical extension cables must be the same as lead wire The plug and connections should be protected by water splash.. Contact a specialized electrician.

## Specifications

Electrical Rating	110-120V~60Hz
Power	750W(1Hp)
Max.head	7.5m(25ft)
Max.depth	5m(16.5ft)
Max.flow	13000L/h
Pipe diameter	1", 1-1/4", 1-1/2" NPT
Cable	18AWG 8m





## Starting the unit

	<b>WARNING</b>	Use the electro.pump In the performance field listed on the nameplate.
	<b>WARNING</b>	Do not operate the pump without liquids, to avoid damaging hydraulic parts and seal.
	<b>WARNING</b>	Do not run the electro-pump with a completely closed delivery.

### Instructions for a safe pump start

1. Connect the pipe to the 1" delivery mouth before starting the pump.
2. Connections must be made so eu to avoid loses.
3. Before wing the pump, always inspect it visually (especially power cable and plug). Do not use the pump if it is damaged.
4. If the pump is damaged, have it inspected by the specialized assistance service only.
5. Do not move the pump using the cable or use the cable to remove the plug from die socket Protect die plug and the power cable from heat, oil or sharp edges.

## Maintenance and troubleshooting

		<b>DANGER</b> <b>Electric shock risk</b>	Make sure the machine is disconnected from electric power supply, before performing maintenance operation.
		<b>DANGER</b> <b>Electric shock risk</b>	The power cable must be replaced by manufacturer, its service agent or qualified person.

1. In ordinary conditions the pumps do not require any maintenance.
2. It may be occasionally necessary to clean the filter or other hydraulic parts. If the pump is not
3. If you are planning not to use the pump for a long period of time (i.e., one year), it is advisable to empty it completely, flush with clean water and store it in a dry location, where it can be protected from frost.
4. Cleaning the filter
5. If pumped water is not perfectly clean, it may be necessary to clean the filter with a steel brush to scrape the dirt accumulated on the external surface.
6. It is also possible to clean the internal section of the filter.
7. Loosen the screw that fixes the filter to the body of the electric pump and remove it. Scrape the dirt with a steel brush and rinse it with clean water.
8. If this is not sufficient, have the hydraulic parts cleaned by an authorized centre.

PROBLEM	POSSIBLE CAUSE	REMEDY
The electropump does not pump water, the motor does not run.	<ol style="list-style-type: none"> <li>1. No power.</li> <li>2. Motor protection tripped.</li> <li>3. Defective capacitor.</li> </ol>	<ol style="list-style-type: none"> <li>1. Verify that voltage is present and that the plug has been correctly inserted.</li> <li>2. Determine the cause of the problem and reset the switch. If the thermal switch has been enabled, wait for the system to cool down.</li> <li>3. Contact the Customer Assistance Service.</li> <li>4. Verify the cause and unblock the electropump.</li> </ol>
The motor runs but the electropump does not pump liquid	<ol style="list-style-type: none"> <li>1. Pump rotates in a wrong direction.</li> <li>2. Air inlet from the suction pipe.</li> <li>3. Suction height above the height recommended for the unit.</li> <li>4. Suction grid blocked</li> </ol>	<ol style="list-style-type: none"> <li>1. Reset the direction of rotation.</li> <li>2. Verify that:               <ol style="list-style-type: none"> <li>a) that joints are sealed.</li> <li>b) the fluid level has not lowered below the foot valve.</li> </ol> </li> <li>3. Check and reduce the suction height or use a device with more suitable characteristics.</li> <li>4. Clean the filter.</li> </ol>
The electropump stops after running for a short period of time because one of the thermal motor circuit breaker trips	<ol style="list-style-type: none"> <li>1. The power supply does not conform with the data on the nameplate.</li> <li>2. A solid object is blocking the impellers.</li> <li>3. The liquid is too thick.</li> <li>4. The liquid or the environment is too hot.</li> </ol>	<ol style="list-style-type: none"> <li>1. Check the voltage on the power supply cable leads.</li> <li>2. Disassemble and clean the electro pump.</li> <li>3. Dilute the pumped fluid.</li> <li>4. Remove the cause of the problem, wait for the pump to cool down and restart it.</li> </ol>

If the problem persists despite the recommended corrective actions, contact the customer assistance service.

## Guidelines

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1. If the appliance no longer functions properly, you must first check whether there is another reason for this, such as power supply interruption or incorrect use.
2. If you ship back the defective appliance, you must include the following documents.
  - a. Proof of purchase.
  - b. Description of the defects (a detailed description facilitates fast repair).
3. In case of repairs, please do not send to the Service Centers any accessory or fitting that is not part of the original components supplied with the pump.

For the right to the guarantee, reporting defects or requesting replacement parts, contact your dealer in person or by telephone.



### **Meaning of crossed —out wheeled dustbin:**

1. Do not dispose of electrical appliances as unsorted municipal waste, use separate collection facilities.
2. Contact your local government for information regarding the collection systems available.
3. If electrical appliances are disposed of in landfills or dumps, hazardous substances can leak into the groundwater and get into the food chain, damaging your health and well-being.
4. When replacing old appliances with new ones, the retailer is legally obligated to take back your old appliance for disposals at least free of charge.

### Parts list

Part	Description	Qty	Part	Description	Qty
1	cable conductor and UL plug	1	51	cross screws M4x8	1
2	floating switch	1	52	spring gasket	1
3	screws	4	53	washer	1
4	washer	4	54	motor defend ring	1
5	pump rear housing	1	55	motor rear cover	1
6	cable sheath	2	56	wave washer	1
7	cable fixer	2	57	bearing	2
8	capacitor	1	58	rotor	1
9	cable block	1	59	stator	1
10	screws	3	60	motor front support	1
11	pump main housing	1	61	O ring	1
12	steel ball	1		motor front cover	1
13	O ring	1		O ring	1
14	pump base	1	62	frame seal	2
15	screws	4	63	machine seal	1
16	pump base board	1	64	defend ring	1
17	screws	3	65	adjusting washer	1
18	adaptor	1	66	impeller	1
19	O ring	2	67	nuts	1
20	output	1			



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