

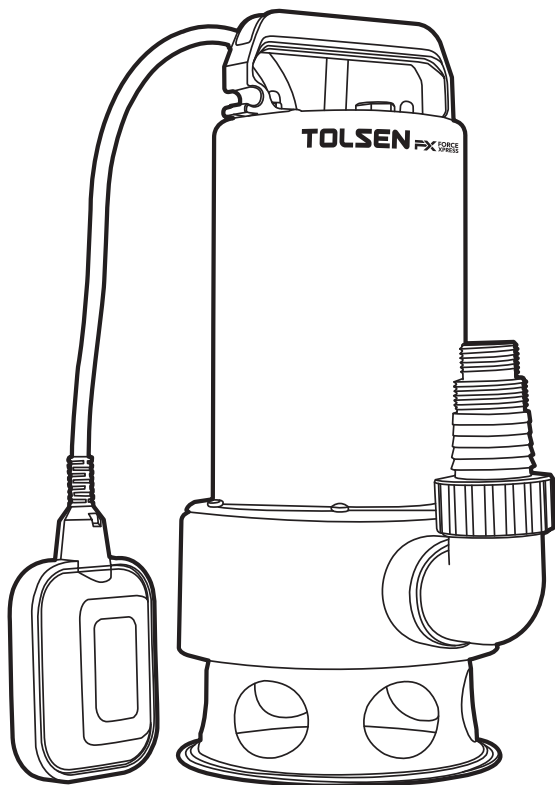
TOLSEN **FX** FORCE XPRESS

79853

SUBMERSIBLE PUMP (DIRTY WATER)

INSTRUCTION MANUAL

1100W(1.5Hp)



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.



DANGER
Electric shock risk

Warns that the failure to follow the directions given may cause electric shock.



WARNING

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.

After purchasing the pump, check that it has not been damaged during transportation. If the pump is damaged, immediately inform the dealer within 8 days from the date of purchase

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.



WARNING

The pump cannot be used for inflammable, explosive or dangerous liquids.



WARNING

Verify that the electro-pump never runs without liquids.

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



DANGER
Electric
shock risk

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.



DANGER

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



WARNING

Verify that the voltage and frequency of the electric pump shown on the nameplate correspond to those available on the mains.



DANGER
Electric
shock risk

The installer must make sure that the electric system is grounded in accordance with the law in force.



DANGER
Electric
shock risk

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 occurs.
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	Max.flow	15000L/h
Power	1100W(1.5Hp)	Pipe diameter	1",1-1/4",1-1/2" NPT
Max.head	10m(33ft)	Cable	18AWG 8m
Max.depth	5m(16.5ft)		

Starting the unit

**WARNING**

Use the electro.pump In the performance field listed on the nameplate.

**WARNING**

Do not operate the pump without liquids, to avoid damaging hydraulic parts and seal.

**WARNING**

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



DANGER
Electric
shock risk

Make sure the machine is disconnected from electric power supply, before performing maintenance operation.



DANGER
Electric
shock risk

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.	1. No power. 2. Motor protection tripped. 3. Defective capacitor.	1. Verify that voltage is present and that the plug has been correctly inserted. 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. 3. Contact the Customer Assistance Service. 4. Verify the cause and unblock the electropump.
The motor runs but the electropump does not pump liquid	1. Pump rotates in a wrong direction. 2. Air inlet from the suction pipe. 3. Suction height above the height recommended for the unit. 4. Suction grid blocked	1. Reset the direction of rotation. 2. Verify that: a) that joints are sealed. b) the fluid level has not lowered below the foot valve. 3. Check and reduce the suction height or use a device with more suitable characteristics. 4. Clean the filter.
The electropump stops after running for a short period of time because one of the thermal motor circuit breakers trips	1. The power supply does not conform with the data on the nameplate. 2. A solid object is blocking the impellers. 3. The liquid is too thick. 4. The liquid or the environment is too hot.	1. Check the voltage on the power supply cable leads. 2. Disassemble and clean the electropump. 3. Dilute the pumped fluid. 4. Remove the cause of the problem, wait for the pump to cool down and restart it.

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

Limited warranty

1. This piece of equipment has been manufactured and tested to the most advanced standards. The seller guarantees its material and manufacture are in perfect order, in compliance with the legislation of the country where it has been bought. This warranty is valid as from the purchase date and shall be subject to the following conditions:
2. During the guarantee period, all defects which are the result of material and production flaws will be repaired free of charge. Complaints must be reported immediately after the defect is discovered.
3. This warranty shall be null and void if the equipment is damaged by the buyer or any third party. This warranty shall not cover damages resulting from improper treatment or use, improper start-up or storage, improper connection or installation or force majeure circumstances or any other external factor. This warranty shall not cover components subject to normal wear, such as for instance the rotor, the sliding ring seals, the diaphragms or pressure switches (for the surge tanks). All parts are manufactured to the best standards, using only first-rate materials, and are designed to last long. Wear and tear is nevertheless dependent on the kind of use, heaviness of use and maintenance frequency they are subject to. Following the directions for installation and maintenance hereunder shall definitely help to prolong the life of the wearable parts.
3. In the case of complaints, we reserve the right to repair or replace defective parts or to exchange the appliance. The parts which have been replaced become property of manufacturer.
4. Damage claims will not be accepted unless the damage is the result of gross or intentional negligence on the part of the manufacturer. No further claims are covered by the guarantee. The client must demonstrate his right to the guarantee by means of the proof of purchase. The right to the guarantee is applicable in the country in which the appliance was purchased.

Guidelines

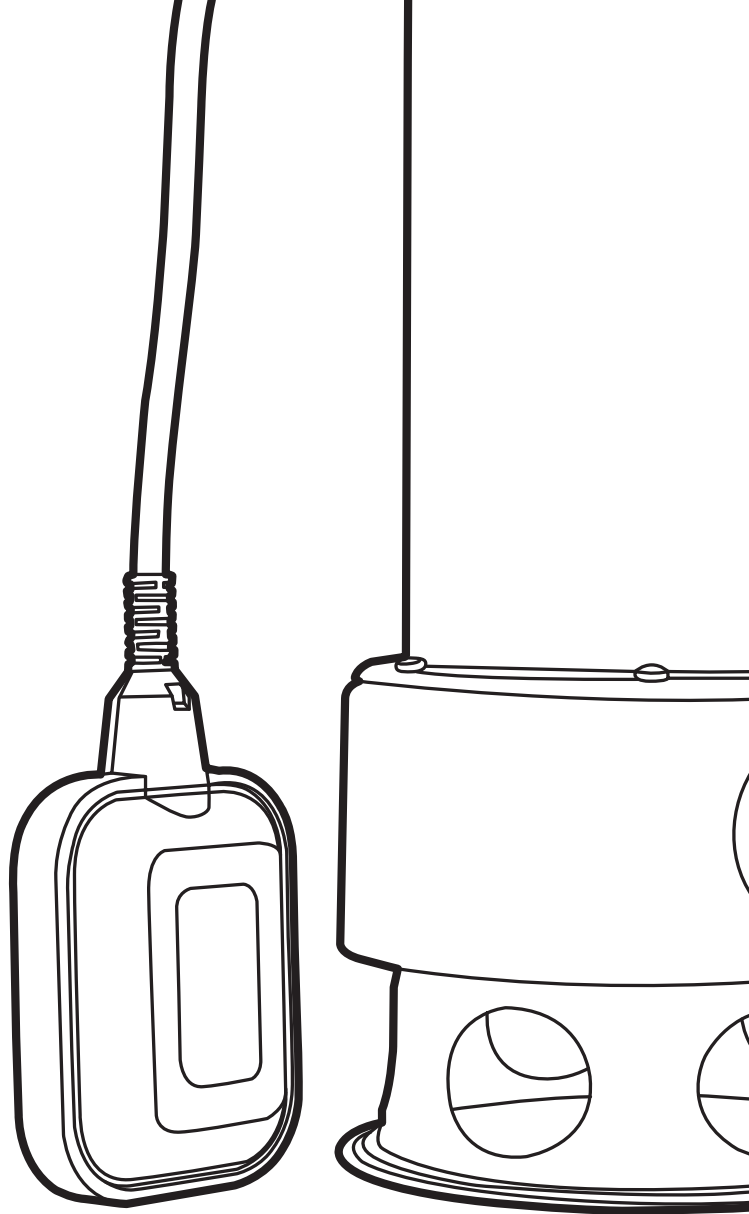
1. If the appliance no longer functions properly, you must first check whether there is another reason for this, such as power supply interruption or incorrect use.
2. If you ship back the defective appliance, you must include the following documents.
 - a. Proof of purchase.
 - b. Description of the 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.



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