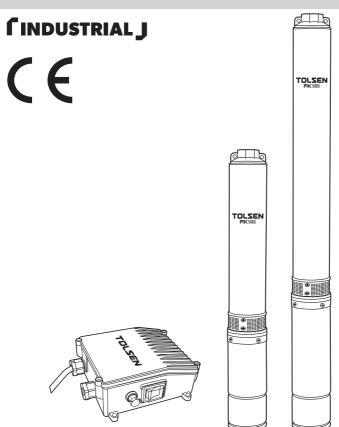


79961/79962/79963/79964 **DEEP WELL PUMP**

INSTRUCTION MANUAL

220-240V~50Hz



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.



IMPORTANT SAFETY INFORMATION

CAUTION! Before starting operation, remember that

The electrical connection is made in a socket with earth contact and voltage of 230V~50Hz. Minimum protection: 16 amperes.

ATTENTION! (for your own safety)

Before starting operation of your new submerged pump, have a technician check operating eficiency as follows:—The electrical connections must be protected from dampness. —When there is danger of flooding, move the connections to a protected place. —The submerged pump must be protected from frost. —Adequate measures must be taken to keep children away from the pump. —The pump must always work in the vertical position.

Limitations of use

WARNING: The pump is not suitable for inflammable or explosive liquids! **WARNING:** The pump is not suitable for garden or swimming pool tanks.

NOTE: Maximum immersion depth:50 m-Maximum temperature of pumped liquid:35°C Maximum quantity of

sand in the water:40gr/hl

Installation

CAUTION Never allow the pump to operate dry!!! This means that the level of liquid to be pumped must never go below the level of the holesonthe bottom of the stainless steel intake flter. **NOTE** It a plastic delivery pipe is being used. It is advisable to used a steel or nylon rope to hook the pump when you need to remove the pump from the well or place it in the well. Before situating the pump, make sure that the well is free of sand, straight, and that it has sufficient width to guarantee passage of the pump.

Electrical connection

It is the responsibility of the installer to ensure that the earth system of the mains is madeaccording to the safety regulations. In compliance with safety regulations, the pump motor isequipped with an earth conductor(yellow/green wire) of the same length as the piece of supplycable for motor! **WARNING** Make the earth connection before carrying out any other operation! Single-phase version: Single-phase motors must be supplied by our control boards containingcondenser and amperometric protection. Three-phase version: Three-phase motors are set for voltage of 380-415V(220-240V onrequest) The pump must be hooked up to the three-phase supply line using a suitable controlboard.

Each time that the pump with three-phase motor is hooked up to a different supply line, there are equal possibilities that the pump rotates in one direction or the other. Rotation in the wrong direction caues a noticeable reduction in capacity and prevalence. The correct rotation direction is that relative to the posision of the phases in which the pump suppolies the greatedst capacity and prevalence.

TECHNICAL DATA

Model	Power	Voltage	Rate Flow m³/hour	Max Flow m³/hour	Rate Head	Max Head	Impeller No.	Outlet size
79961	0.5 HP	50Hz&220-240V	2	4	45	51.5	8	1.25"
79962	0.75HP	50Hz&220-240V	2	4	59	73	11	1.25"
79963	1.0HP	50Hz&220-240V	2	4	78.5	91.5	14	1.25"
79964	1.5HP	50Hz&220-240V	2	4	113	132	20	1.25"



OPERATING INSTRUCTIONS

Motor

2-polc induction motor, 50Hz(n=2850r/min) 60Hz(n=3450r/min) Resin impregnated winding. Sized for connection to the pump according to NEMA standards. Standard voltages:-Single-phase 220V-240V, with thermal protector;-Three-phase 380V-415V;-Other voltages and frequency on request. Inulation class:4",5"6"motor:B grade.Protection: lp58

Control box

Single-phase:general start control box or auto-control box. Three-phase:general motor protector.

Coupling

Screwed couple: ISO228. Delivery casing with buit-in non-return valve.

Cable wiring way: (as per sample picture)

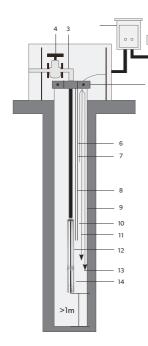
A. Peel the insulator skin of flat cable wire, wiring it's core wire with

Pump Installation(as pre section picture)

- 1. Wrap tube screw thread with seal rubberized tape. One end conect pump delivery part. Screw the connected sleeve on the other end, and then tightem with lath joint point, Analogize in this way, lift pump until it reach request depth.
- 2. Cable wire should be tied with delivery tube every 2-3 meters.

Caution

- 1. No water immerse, run pump is forbidden, even trail run.
- 2. When running, if trip-frequently or delivery water varyobvious, lift pump and check
- 3. voltages not steady, stop or fit steady voltages unit.
- 4. Water muddy or sand inside over, stop and lift the pump to proper location.
- 5. Max.Immersion depth:40m,less immersion depth,longer use time.
- 6. Part from professional dismont pup is forbidden



- 1. Power switch
- 2. Auto-control box
- 3. Delivery tube
- 4. Valve
- 5. Lined plate
- 6. Static level
- 7. Upper pole

- 8. Cable
- 9. Well bore-hole
- 10. Stir level
- 11. Middle pole
- 12. Pump body
- 13. Lower pole
- 14. Submersible motor

TROUBLESHOOTING & MAINTENANCE TOLSEN

TROUBLESHOOTING

problem	cause	remedy		
The numer does not	no electricity			
The pump does not deliver: THE MOTOR DOES NOT START	Plug not inserted correctly			
DOESTION START	Automatic switch tripped			
	Fuses bumt out(three-phase pump)			
	Overload protection tripped	Automatically resets after the motor has cooled(single-phase version)		
	Amperometric protection tripped	The micro-circuit breaker resets automatically.		
The pump does not deliver.	Intake flange obstructed			
THE MOTOR STARTS	Delivery pipe clogged			
TUE DU MAD DE LIVEDO IN	Check valve jammed			
THE PUMP DELIVERS IN REDUCED CAPACITY	Water level too low			
	Intake flange partially obstructed	Check rotation direction		
THE PUMP STOPS AFTERBRIEF	Clogging in delivery pipes			
PERIODS OF OPERATION The incorporate overload	Incorrect rotation direction			
switch is tripped	Foreign bodies prevent the			
	pump from rotating freely			
	Liquid temperature too high			
	internal defect			

MAINTENANCE

The submerged pump is high-quality product and does not require maintenance. After long periods of pump inactivity, we recommend that you make a general check before beginning operation again.

CAUTION! Before carrying out any maintenance operation, remove the plug from the mains.

CE DECLARATION OF CONFORMITY

WE SUZHOU TOLSEN TOOLS CO.,LTD. 198 HUASHAN ROAD, ZHANGJIAGANG, JIANGSU, CHINA

Declare that the product 79961/79962/79963/79964 DEEP WELL PUMP

Complies with the essential health and safety requirements of the following Directices:

Directive 2006/42/EC

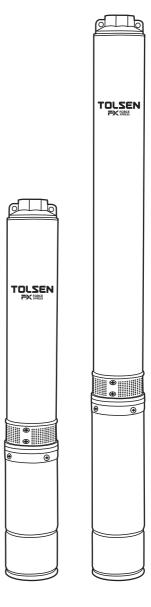
Standards and technical specifications referred to: EN 60335-2-41:2003/A2:2010 EN 60335-1:2012/A13:2017 EN 62233:2008

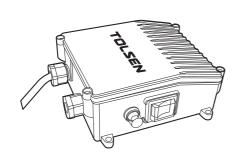
The products fulfil the requirements of EN 60335-2-41:2003+A1:2004+A2:2010 used in conjunction with EN 60335-1:2012+A11:2014+A13:2017The products fulfil the requirements of EN 62233:2008.

IEC 60335-2-41:2002 (Third Edition) + A1:2004 + A2:2009 IEC 60335-1:2010 (Fifth Edition)

Authorised Signatory and technical file holder
Signed for and on behalf of:
SUZHOU TOLSEN TOOLS CO.,LTD.
198 HUASHAN ROAD, ZHANGJIAGANG,
JIANGSU, CHINA
ZHANG XING YU
Group Quality Director

on:26/05/2020





SUZHOU TOLSEN TOOLS CO.,LTD.

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SCAN TO VISIT PRODUCT LINK