



# USER MANUAL



**110 Volt Dirty Water  
Submersible Pump**

**Product Code:  
SPT750B**



**Serial Number Range:**

**Year Of Manufacture:**

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The Hire Supply Company (UK) Limited





# Operation Manual

## Submersible Sewage Pump Model SPT750B(F)

### ● Function and feature:

With features of compact size, light weight, and convenient use. This pump is widely used for farming, breed aquatics, mining, and construction site. The float switch can automatically control on and off with the change of the liquid level. Protector inside the motor can automatically cut off the power when overheating or overloading, to guarantee pump's security and reliability under hard environment .

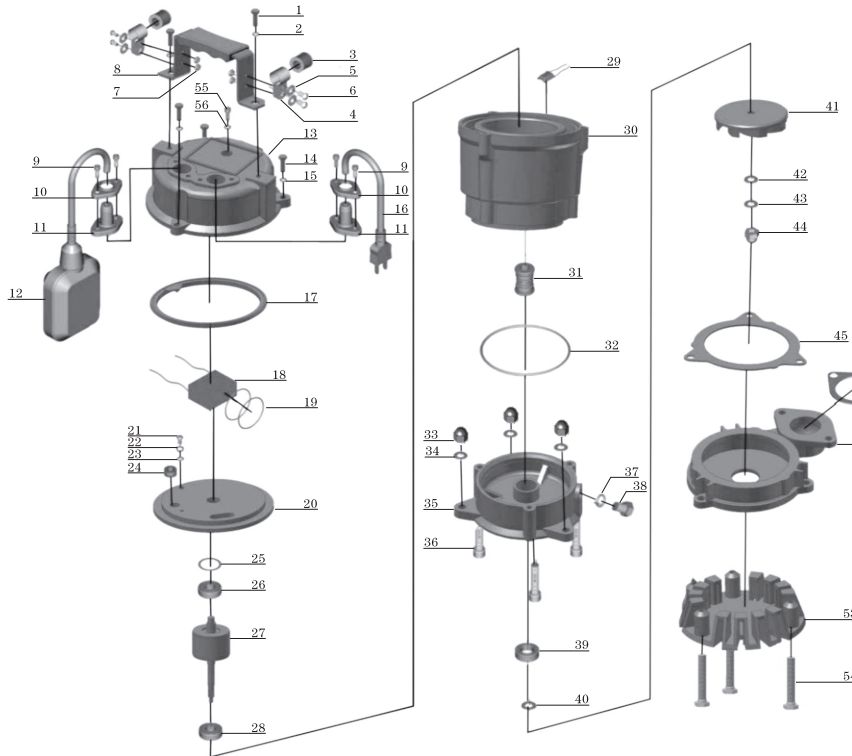
### ● Condition of usage:

- 1.maximum operating depth 5 m below water level
- 2.maximum fluid temperature 40℃
- 3.PH value in water: 6.5–8.5
- 4.maximum passage for suspended solids  $\phi$  0.7 mm

### ● Technical data(the data will be some change under different voltage and frequency)

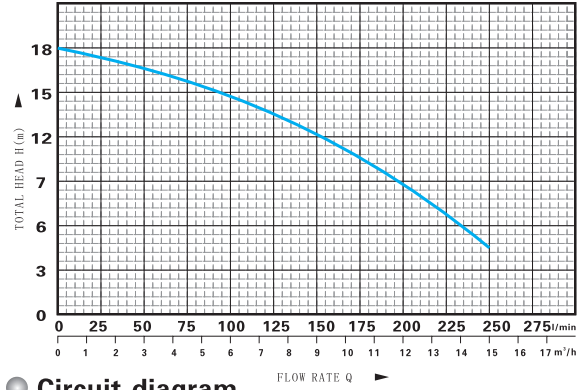
Model	Power (kw)	Discharge (mm)	Voltage (V/Hz)	Max flow (l/min)	Max head (m)	Weight (kg)	Packing (cm)
SPT750B(F)	0.75	80	220/50	250	18	19.0	32.0x22.5x44.0

### ● Part view:

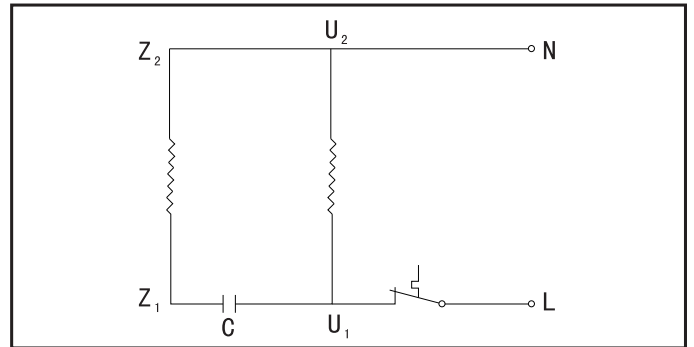


NO.	DESCRIPTION	MATERIAL
1.	Bolt	11
2.	Washer	11
3.	Protector	NR
4.	Cable presser	11
5.	Washer	11
6.	Screw	11
7.	Nut	11
8.	Handle	Combined Places
9.	Screw	11
10.	Flange	11
11.	Cable protector	CR
12.	Float switch	Combined Places
13.	Capacitor cover	AlSi12
14.	Bolt	11
15.	Washer	11
16.	Cable	Combined Places
17.	Rubber washer	NBR
18.	Capacitor	Combined Places
19.	"O" ring	NBR
20.	Motor cover	AlSi12
21.	Screw	CuZn40
22.	Stretching washer	1566
23.	Washer	CuZn40
24.	Line protector	NBR
25.	Undulated washer	1566
26.	Ball bearing	Combined Places
27.	Rotor	Combined Places
28.	Ball bearing	Combined Places
29.	Thermal protector	Combined Places
30.	Motor Stator	AlSi12
31.	Mechanical seal	Alumina/Graphite
32.	"O" ring	NBR
33.	Nut	11
34.	Washer	11
35.	Connection part	200
36.	Screw	11
37.	"O" ring	NBR
38.	Bolt	11
39.	Oilseal	Combined Places
40.	Washer	11
41.	Impeller	NBR(including stainless insert)
42.	Washer	11
43.	Stretching washer	11
44.	Nut	11
45.	Rubber washer	NBR
46.	Outlet connector	ABS
47.	"O" ring	NBR
48.	Bolt	11
49.	Washer	11
50.	Connection nut	200
51.	Rubber washer	NBR
52.	Pump body	200
53.	Base plate	plastic
54.	Bolt	11
55.	Screw	11
56.	"O" ring	NBR

### ● Performance curve



### ● Circuit diagram



### ● Installation and remark:

1. Before installation, must carefully check whether there are some parts damaged during Transport and stock. For example whether the cable and plug are in good condition, and the insulated resistance is above  $0.5M\Omega$ , otherwise must check the fault.
2. Check whether the power supply is conformed to the stipulation of nameplate before installation. Pump must connect with earth to keep safe.
3. Before installation, must check whether the cable and plug is fractured, scratched, broken, etc. If they are faulty, must consult dealer or technician qualified to replace them.
4. Using iron thread or hoop to make the outlet and discharge pipe tight, and then tie a rope on the handle as sling so as to move the pump up and down.
5. Impacting and pressing the cable is absolutely prohibited. Cable cannot be used for sling. Don't discretionarily drag the cable while the pump is running, to avoid creepage.
6. The power supply connected with the pump must be assembled with Electricity-leaking circuit breaker, and the voltage must be controlled within  $\pm 15\%$  of the rated to avoid destroying the motor.
7. Don't touch and move the pump before cut-off the power to keep safe.

8. Be sure that the connection part between plug and cable is far from the water.

9. Be sure that the plug and cable are far from the heat, oil and the sharp.

### ● Maintenance

1. Often check cable and duly replace the cable if it is found with fault of fractured, broken etc.

2. After running 2000hrs, please maintenance the pump as per the following steps:

Disassemble pump: carefully check the spare parts easily worn, for example bearing, mechanical seal, oil seal, "O"ring , impeller etc. And duly replace the spare parts damaged.

Chang oil: take the charge plug of oil chamber out, and inject 10# oil to 70%–80% of the capacity of chamber(edible earthnut oil is available if no 10# oil).

Air testing: After maintenance, the pump must be tested by air. Inject high-pressure air into the pump and keep the pressure at 0.2Mpa, it proved to be reliable if no leakage within 5 Minutes.

3. Don't submerge the pump into the water if it isn't started for a long time. Must take the pump out of the water and clean it and then make anti-rust processing.

### ● Fault and solution (shut off the power before operation )

Fault	Possible cause	Remedy
<b>Pump does not start</b>	<ol style="list-style-type: none"> <li>1. Too low voltage;</li> <li>2. Impeller blocked;</li> <li>3. Stator winding burn up;</li> <li>4. Capacitor damaged;</li> <li>5. Absent phase (3 phase);</li> <li>6. Too large resistance of cable.</li> </ol>	<ol style="list-style-type: none"> <li>1. Adjust voltage to <math>\pm 15\%</math> of the rated;</li> <li>2. Remove obstacles;</li> <li>3. Repair;</li> <li>4. Replace capacitor;</li> <li>5. Check switch and cable connection etc;</li> <li>6. Use the proper cable ;</li> </ol> <p>(Item 3 and 4 must be operated under the guidance of dealer or technician qualified.)</p>
<b>Pump delivers reduced water</b>	<ol style="list-style-type: none"> <li>1. High delivery head;</li> <li>2. Filter mesh clogged;</li> <li>3. Impeller worn off;</li> <li>4. Too shallow submersible depth;</li> <li>5. Wrong rotation (3 phase).</li> </ol>	<ol style="list-style-type: none"> <li>1. Lower the head;</li> <li>2. Clean the filter mesh;</li> <li>3. Replace impeller;</li> <li>4. Adjust the submersible depth above 0.5m;</li> <li>5. Inverse two phase.</li> </ol>
<b>Pump stops suddenly</b>	<ol style="list-style-type: none"> <li>1. Switch cut off or blowout;</li> <li>2. Impeller blocked;</li> <li>3. Stator winding burn up.</li> </ol>	<ol style="list-style-type: none"> <li>1. Check power supply, replace fuse;</li> <li>2. Shut off power, clean obstacles;</li> <li>3. Repair (must consult the dealer and technician qualified).</li> </ol>



## Recycling



**ENVIRONMENTAL PROTECTION:** Please recycle any unwanted materials as opposed to disposing them as general waste. It is recommended the original is retained and used to store the product when not in use for prolonged periods of time. If this is not applicable ensure the materials are sorted and recycled in accordance with local regulations



**SPECIFICATION CHANGE:** It is our policy to continually improve products to ensure these meet the rigours of the industry we serve. Therefore, as such we reserve the right to alter specifications, data, components & parts without prior notice.

**WARRANTY:** Please refer to the manufactures terms & conditions

**IMPORTANT:** No liability will be accepted for the incorrect use of this product.

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