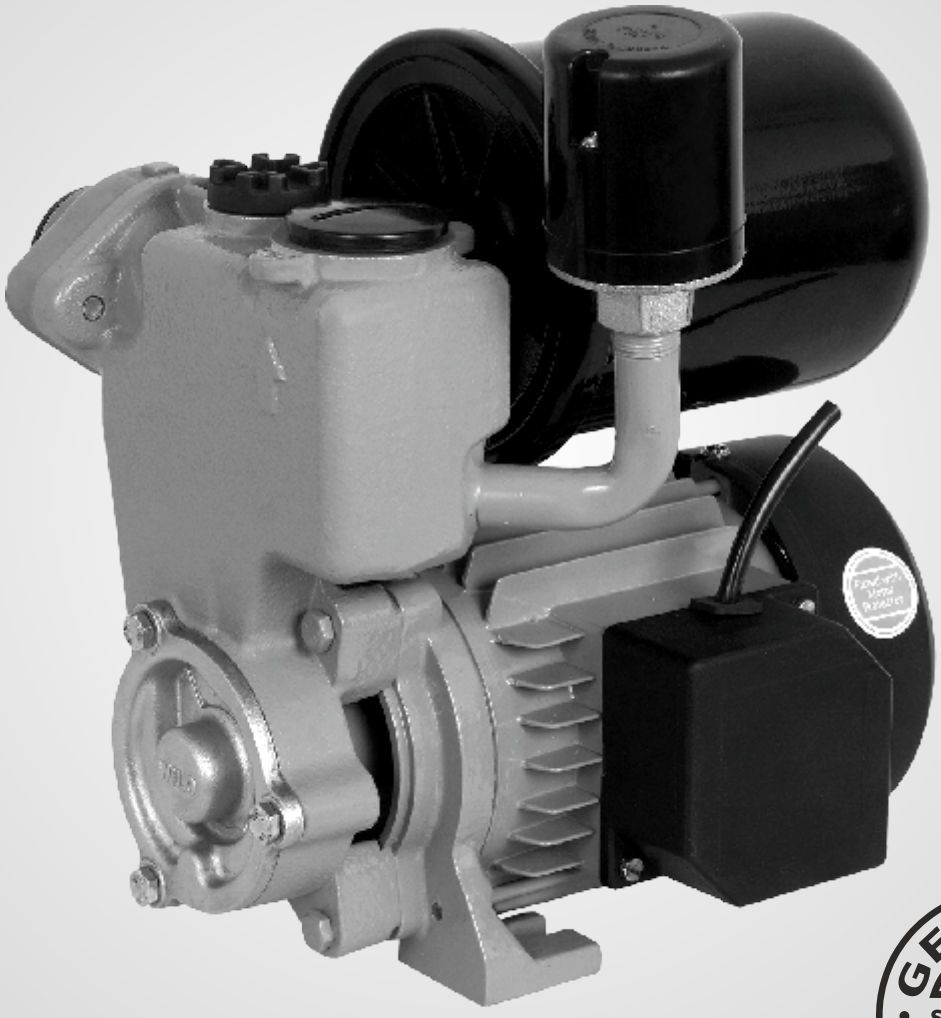
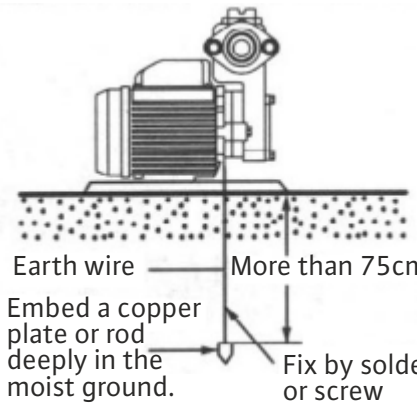
Pioneering for You

Wilo PW Boost

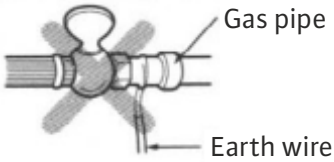
Solution for your water transfer



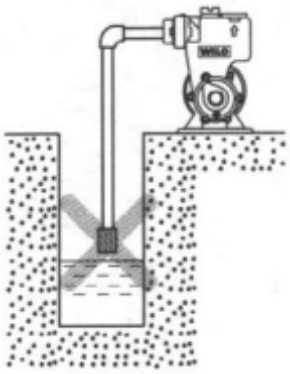
1. PRECAUTION BEFORE USING



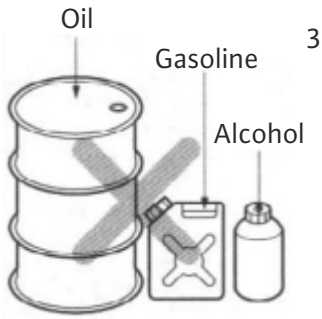
1. Connect the earth wire before use. This enables you to prevent an accident caused by electric shock when the electric insulation is not order.
- For you safety from the danger of electric shock, please be careful not to get power plug stained with water.



* CAUTION IN CONNECTING THE EARTH WIRE.
- Connect the earth wire alter tumming off the electric power.
- Never connect with gas pipes, otherwise it can be the cause of explosion.

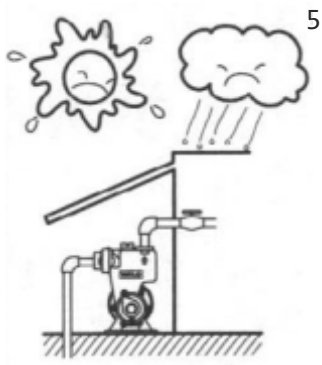


2. Avoid operating under the condition of dry running and delivering no water. For it will shorten the service life of pump and also cause the trouble of motor.

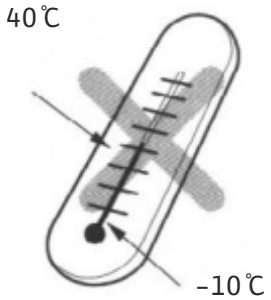


3. Be carful not to use the pump with other liquids except for water. When it is used tor solvent such as benzol, acid, inflammable liquids such as gasoline and high viscous liquid, there is a risk oi the tire and it will cause the trouble of the pump and also shorten the service lite for it.

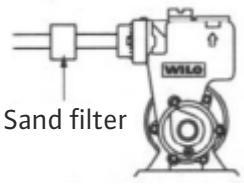
4. Never wrap the motor of the pump head in a blanket or a cloth for preventing freezing in the cold weather. For it will be the cause of the fire.



5. Avoid using the pump under the condition exposed to the direct rays or rain because it will be the reason of shortening the service lite of the pump and also oi the danger of electric shook.

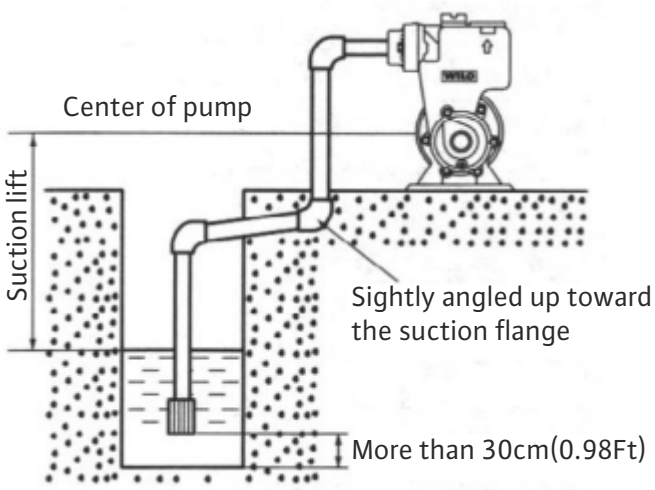


6. Avoid using the pump under the condition of ambient temperature over 40°C and below -10'C, and also with hot water over 40°C. For it will shorten the service life of pump.



7. When this pump is set up in the well which is easy to suck in sand, above all, As and filter is needed. For it will prevent the defacement of the impeller in the pump head for a short time, the decline of pressure and the decrease of the pumping water.
8. The permitted voltage fluctuation is within ±10% of the rated voltage. Otherwise it will be the reason of shortening the service lite of the pump.

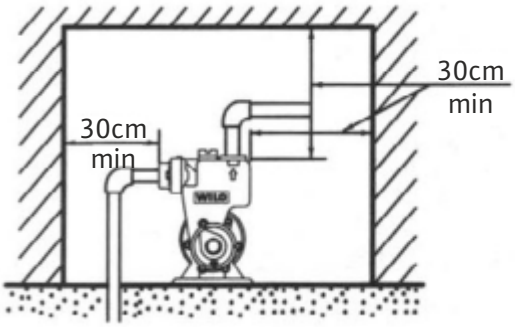
2. CHECKING POINTS BEFORE INSTALLATION

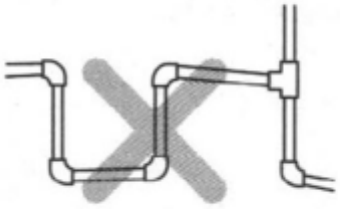


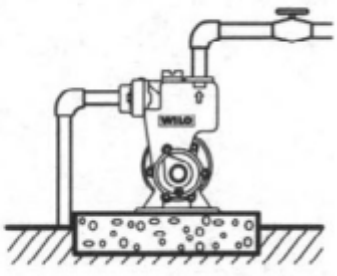
Suction lift	Maximum horizontal length of suction pipe
8m/26.2Ft	3m/9.8Ft
7m/22.9Ft	14.5m/47.6Ft
6m/19.7Ft	26m/85.3Ft
5m/16.4Ft	37.5m/123Ft
4m/1 3.1Ft	49m/160.7Ft

- Install the pump just over the well as possible as you can But when the pump must be installed far from the well because of circumstances, the maximum distance of the pipe from the well to the pump is limited according to the suction lift.
  Decide the suction lift considering the dry season.

3. GUIDE FOR INSTALLATION







- Select the place where the pump can be conveniently checked or repaired after installation. For installing the pump in the narrow place because of the circumstances, the room just like the figure is needed.
- Minimize the number of the elbows to prevent the water leaking in the piping or to lessen the resistance of water.
- Concrete the foundation with cement that the pump may not lean or slant even after many years.
- Measure the depth from the grouNd surface to that of the well. The suction head is standardized at 8m (Max. 9m)
- Be sure to use pipes of standard diameters for normal.

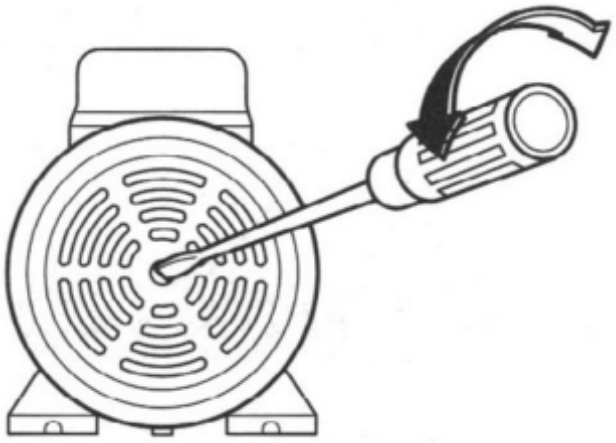
4. HOW TO OPERATING THE PUMP

- Never operate the pump without priming water. For it will damage the mechanical-seal and the impeller and shorten the service life of the pump.

- **WHEN THE PUMP FIEUSED AFTER A LONG TIME**

  -There is a possibility for the motor not to be operated in spite of switching on the electric power because of the sticking and solidification of the dirt and filth in the water of the pump head.

  -In that case, turn off the electric power, and then turm the shaft side hole in back of the motor a few times with driver or something like that. After that, you can operate the pump as usual.



HOW TO START THE PUMP

- Since this pump is not self-priming system, at the start of operation, make priming by the following sequence:

  1. Remove the Hopper cap and pour water into the pump and replace the Hopper cap. Air in the suction pipe shall be pulled out with the water.

  2. Before the power switch on, the water cock of the discharge side should be opened.

  3. After the power switch on, start priming procedure immediately.

  4. When the priming is not successful, air may be remained in the suction pipe. Then, to remove air in the suction pipe, pour water and power on and off repeatedly.

  5. Because the pump has no switch, use power switch on the wall or plug in and out from the receptacle.

5. TROUBLES AND COUNTER-MEASURES

Troubles	Causes	Counter-Measures (The indication ●can be clone by user.)
Motor does not start.	Thermal protector.	● It the motor is overheated, it doesn't operate. Then, wait till getting cold. (20 ~30 minutes)
	Faulty cord connection.	● Insert the plug securely.
	Cord disconnected.	Replace the new cord.
	Trouble in motor.	Repair or replace the motor.
	Too low power supply voltage.	● Consult with the power supply company.
Water is not pumped out although motor runs.	Water level of well is lower than standard level.	● Check the water level ct well.
	Trouble in check valve.	Take oft the check valve case. Then, clean the valve, the valve seat and the valve hole.
	Air drawn into suction pipe	After checking the joints of piping, shut them perfectly.
	Air drawn into pump from mechanical seal.	Replace the new mechanical seal.
Themal protector for motor works too often.	Too low or high power supply voltage.	● Consult with power supply company.
	Impeller is contact with another part.	Repair the defects.
	Short or open circuit of the capacitor.	Replace the capacitor.
Water does not come out at the first few minutes after switch on.	Air drawn into suction pipe.	Replace the defects of piping (To prevent air leaking)
Pump starts though no water is being used.	Water leaks at piping or pump.	Repair piping, pump parts and faucets etc.
	Water leaks at mechanical seal	Replace the mechanical seal.
	Trouble in check valve.	Take off the check valve case. Then, clean the valve the valve seat and the valve hole.
	Defacement or transformation of the impeller.	Replace the impeller.

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