

**AQUA PAK**



## **KANKI PLUS**

MULTISTAGE SUBMERSIBLE MOTOR PUMP

v1.1

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## Table of Contents

1. INTRODUCTION .....	4
2. BEFORE YOU START .....	4
3. SAFETY WARNINGS .....	4
4. INSTALLATION .....	5
5. INSTALLATION DIAGRAM .....	7
6. DESCRIPTION OF THE SUBMERSIBLE MOTOR PUMP .....	7
7. PIPE ASSEMBLY .....	8
8. ELECTRICAL CONNECTION .....	8
9. RECOMMENDATIONS BEFORE STARTING UP THE EQUIPMENT .....	9
10. START-UP .....	9
11. MAINTENANCE .....	9
12. POSSIBLE ANOMALIES, CAUSES AND SOLUTIONS .....	10
13. USES AND PROHIBITIONS .....	10

# 1. INTRODUCTION

Thank you for choosing our AQUA PAK KANKI PLUS series submersible motor pumps.

The KANKI PLUS series features a robust construction and a compact design, ensuring reliability, safety, and efficiency. These pumps are ideal for pumping clean, solid-free water from tanks, decorative fountains, water reservoirs, shallow wells, and more. Their design allows for easy installation and guarantees stable operation.

# 2. BEFORE YOU START

This manual provides essential information on the installation, operation, and maintenance of our KANKI PLUS series motor pumps. We strongly recommend reading it carefully.

# 3. SAFETY WARNINGS

Understanding the following warning and hazard symbols is essential for the safe and proper installation of this product.



## CAUTION

Failure to follow this notice may result in damage to the motor pump or the installation.



## WARNING

Ignoring the instructions associated with this symbol could lead to injury or irreversible material damage.



## DANGER

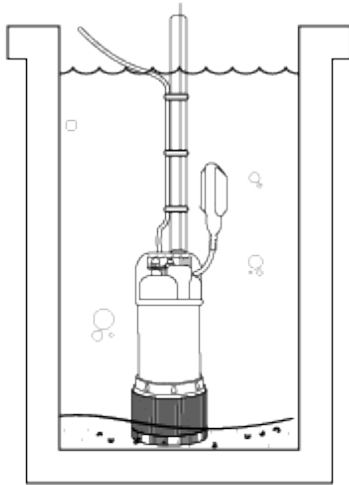
This symbol highlights critical safety instructions that must not be ignored, as failure to comply could result in fatal injuries.

## 4. INSTALLATION

The motor pump should not be placed at the bottom of the tank from which water is being drawn to prevent solids from entering the unit (Fig. 1).

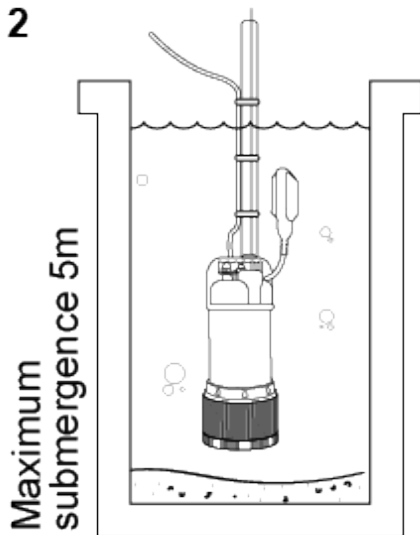
Ensure that the water level in the tank is always greater than the volume pumped to prevent dry operation.

**fig. 1**



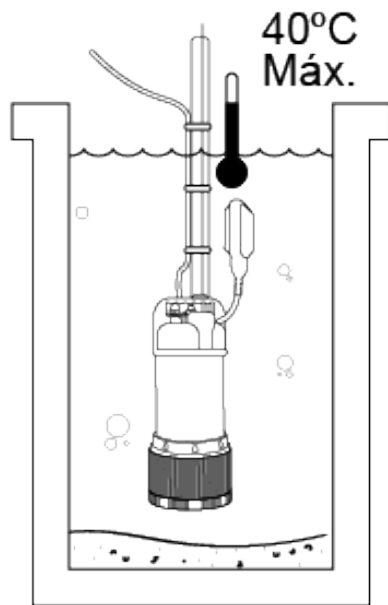
The motor pump must not exceed a maximum submersion depth of 16.4 feet (5 meters), as exceeding this limit may affect proper operation (Fig. 2).

**fig. 2**



The water temperature must not exceed 104°F (40°C) (Fig. 3).

fig. 3

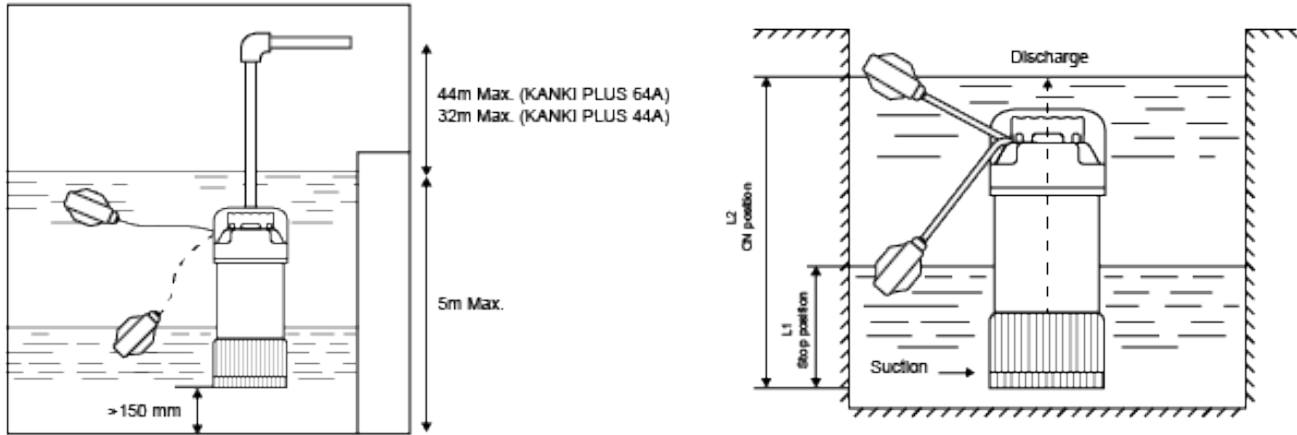


**WARNING**

The power cable should not be used to transport the motor pump, this can damage the internal connections of the motor pump.

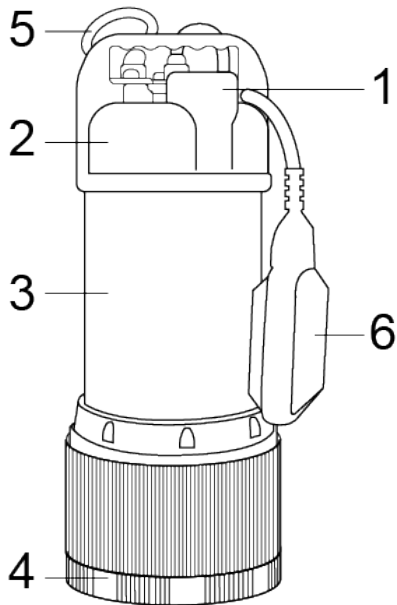


## 5. INSTALLATION DIAGRAM



## 6. DESCRIPTION OF THE SUBMERSIBLE MOTOR PUMP

1. Discharge outlet with bronze insert.
2. Durable top cover with double-sealed connectors.
3. Motor pump casing.
4. Suction inlet.
5. Power cable.
6. Level switch (float).



## 7. PIPE ASSEMBLY

The motor pumps feature a 1" NPT female connection; however, using a larger diameter pipe is recommended to minimize friction losses over long distances and maximize hydraulic performance.

It is also advisable to install a check valve at the pump outlet to prevent the pipe from emptying each time the motor pump stops operating.



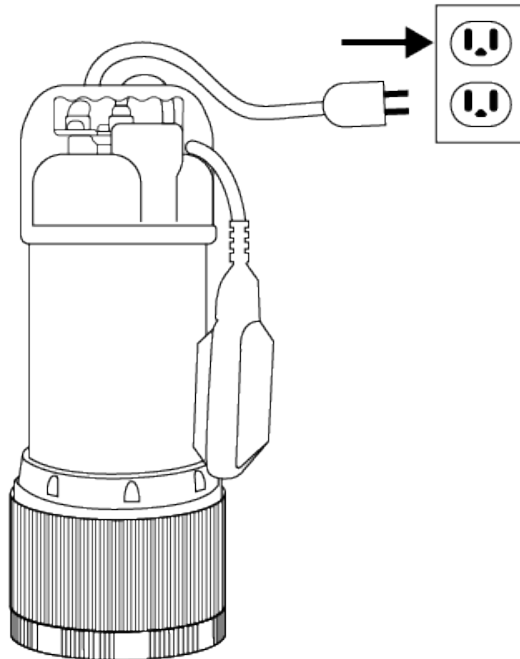
### CAUTION

If using a plastic hose instead of a rigid pipe, ensure that the hose can withstand the motor pump's maximum pressure and that there are no bends along its path that could restrict flow.

## 8. ELECTRICAL CONNECTION

The motor pump is equipped with a 32.8 ft (10 meter) submersible cable and an electrical outlet plug for connection to the power supply. A grounded socket rated at 127V must be used for proper connection.

The motor includes built-in thermal protection for added safety.





## 9. RECOMMENDATIONS BEFORE STARTING UP THE EQUIPMENT

- Verify that the voltage and frequency of the power supply match those specified on the motor pump's data plate.
- Ensure the motor pump remains fully submerged during operation.
- Do not cut the power cable.
- Use a rope or the discharge pipe to lower the motor pump into the well—never use the power cable.
- Always disconnect the motor pump before performing any maintenance or handling.



### NOTE

The motor pump should never operate dry.

## 10. START-UP

- Open all flow valves in the discharge line.
- Connect the power plug and wait a few seconds for the water to flow through the entire pipe and begin to discharge.
- Verify that the amperage consumed by the motor pump matches the value specified on the data plate.
- If the motor pump fails to start or does not pump water, refer to the section on possible faults, causes, and solutions later in this manual.

## 11. MAINTENANCE

The KANKI-PLUS series motor pumps require minimal maintenance. If solids accumulate inside the motor pump body, the suction base can be unscrewed for cleaning.

For safety reasons, in case of impeller damage or any other repairs, please contact the service department.

## 12. POSSIBLE ANOMALIES, CAUSES AND SOLUTIONS

Anomaly	Cause	Solution
The motor pump won't start	<ul style="list-style-type: none"> <li>Power supply failure.</li> <li>Stop due to level float switch.</li> <li>Damaged power cable.</li> </ul>	<ul style="list-style-type: none"> <li>Check the power supply network.</li> <li>The tank probably ran out of water, waiting for the level to recover.</li> <li>Inspect the power cable for cuts or punctures; if damaged, send for repair</li> </ul>
Motor runs but has low flow	<ul style="list-style-type: none"> <li>Low water level in the well.</li> <li>Leaky or damaged discharge pipe</li> <li>Check valve mounted upside down.</li> </ul>	<ul style="list-style-type: none"> <li>Ensure the motor pump is fully submerged in water</li> <li>Repair or replace the pipe</li> <li>Correct the check valve's flow direction</li> </ul>
Motor stops automatically	<ul style="list-style-type: none"> <li>Incorrect voltage.</li> <li>Insufficient well flow.</li> <li>Stop due to level float switch</li> </ul>	<ul style="list-style-type: none"> <li>Verify voltage matches motor specifications</li> <li>Strangle the valve at the outlet of the pipe.</li> <li>You probably ran out of water in the tank, wait for the level to recover</li> </ul>
Flow doesn't match pump curve	<ul style="list-style-type: none"> <li>Overall gauge height greater than expected.</li> <li>Insufficient well flow.</li> <li>Clogged pump suction.</li> <li>Wear on hydraulic parts.</li> <li>Leaky or damaged discharge pipe</li> </ul>	<ul style="list-style-type: none"> <li>Recalculate head + friction losses; adjust system if needed</li> <li>Strangle the valve at the outlet of the pipe.</li> <li>Clean suction filter</li> <li>Contact authorized service</li> <li>Repair/replace the pipe</li> </ul>

## 13. USES AND PROHIBITIONS

### USES

Specifically designed for pumping clean water free of solids.

Applications in reservoirs such as cisterns, water tanks, decorative fountains, wells, and shallow boreholes.

Operation within safe limits: maximum water temperature 40 °C and maximum submersion depth of 5 meters.

### PROHIBITIONS

It must not be used to pump water containing solids, chemicals, oils, or flammable liquids.

It must not be transported or handled using the power cable, as this may damage the internal connections.

The motor pump must not be operated dry, as this can cause serious damage to the equipment.