

## Manuals+

[Q & A](#) | [Deep Search](#) | [Upload](#)

Manuals.plus /

- > [UNbit](#) /
- > UNbit QB70 Brass Impeller for Water Pumps: User Manual

## UNbit QB70

# UNbit QB70 Brass Impeller for Water Pumps: User Manual

Model: QB70 | Brand: UNbit

## 1. INTRODUCTION

This user manual provides essential information for the proper installation, operation, and maintenance of your UNbit QB70 Brass Impeller. This impeller is designed for use in various water pump systems, offering efficient fluid transfer capabilities. Please read this manual thoroughly before installation and operation to ensure safe and effective use.

## 2. SAFETY INFORMATION

Always observe the following safety precautions to prevent injury or damage to the equipment:

- Ensure the power supply to the pump system is disconnected before installing or servicing the impeller.
- Wear appropriate personal protective equipment (PPE), such as gloves and eye protection, during installation and maintenance.
- Handle the impeller carefully to avoid damage to its delicate fins.
- Verify that the impeller is correctly seated and secured within the pump housing before resuming operation.
- Consult a qualified professional if you are unsure about any installation or maintenance procedures.

## 3. PRODUCT OVERVIEW

The UNbit QB70 Brass Impeller is a critical component for various water pump applications. Its robust brass construction ensures durability and efficient performance.

### Key Features:

- **Material:** 100% Pure Brass construction for longevity and corrosion resistance.
- **Design:** Unique design optimized for lower power consumption and extended life within compatible pump systems.
- **Dimensions:** Outer Diameter: 70mm, Shaft Diameter: 12mm.
- **Versatility:** Suitable for a wide range of applications including farming, vehicle cleaning, water

purification, and general water transfer.



Figure 1: Front view of the UNbit QB70 Brass Impeller, showcasing its fin design.



Figure 2: Top-down view of the QB70 impeller, indicating the 70mm outer diameter and 12mm shaft diameter.

#### 4. INSTALLATION INSTRUCTIONS

---

This section outlines the general steps for installing the QB70 impeller into a compatible water pump. Specific pump models may have variations; always refer to your pump's manual for detailed instructions.

1. **Disconnect Power:** Ensure the pump's power supply is completely disconnected and locked out to prevent accidental startup.
2. **Drain System:** If applicable, drain any water from the pump housing and associated piping.
3. **Access Impeller Chamber:** Carefully open the pump housing to access the impeller chamber. This may involve removing bolts or clamps.
4. **Remove Old Impeller (if applicable):** If replacing an existing impeller, carefully remove it from the pump shaft. Note its orientation for correct installation of the new impeller.
5. **Inspect Shaft:** Clean the pump shaft and inspect it for any damage or debris.
6. **Install New Impeller:** Slide the UNbit QB70 impeller onto the pump shaft, ensuring the keyway aligns with the shaft key. Push it firmly until it is fully seated.
7. **Secure Impeller:** Secure the impeller in place according to your pump's design (e.g., with a retaining nut or bolt).
8. **Reassemble Pump:** Carefully reassemble the pump housing, ensuring all seals and gaskets are correctly positioned to prevent leaks. Tighten all fasteners securely.
9. **Test System:** Once reassembled, reconnect the power supply and perform a test run to check for proper operation and any leaks.



Figure 3: Close-up view of the QB70 impeller's shaft opening, showing the 12mm diameter.

## 5. OPERATING PRINCIPLES

---

The UNbit QB70 impeller functions as the primary component for creating centrifugal force within a water pump. When the pump motor rotates the impeller, the fins accelerate the fluid outwards from the center, increasing its velocity and pressure. This action draws more fluid into the impeller's eye, creating a continuous flow.

For optimal performance, ensure the pump system is properly primed (if it's a self-priming pump or requires manual priming) and that there are no air pockets within the system, as air can significantly reduce pumping efficiency.

## 6. MAINTENANCE

---

Regular maintenance helps ensure the longevity and efficiency of your UNbit QB70 impeller and the pump system it operates within.

- **Periodic Inspection:** Periodically inspect the impeller for signs of wear, corrosion, or damage to the fins. The frequency depends on usage and water quality.
- **Cleaning:** If the pump handles water with suspended solids, the impeller may accumulate debris. Disconnect power, disassemble the pump, and carefully clean the impeller and housing with water and a soft brush.
- **Shaft Seal Check:** While inspecting the impeller, also check the pump's shaft seal for leaks or wear. A leaking seal can affect pump performance and lead to motor damage.
- **Storage:** If the pump system is to be stored for an extended period, especially in freezing conditions, ensure it is completely drained to prevent damage.



Figure 4: Side view of the QB70 impeller, showing the thickness and fin structure.

## 7. TROUBLESHOOTING

---

This section provides solutions to common issues related to impeller performance within a pump system. Always disconnect power before attempting any troubleshooting or repairs.

- **Reduced Water Flow/Pressure:**

- *Possible Cause:* Clogged impeller or pump intake.
- *Solution:* Disassemble and clean the impeller and pump housing. Check intake for obstructions.
- *Possible Cause:* Air in the pump system (loss of prime).
- *Solution:* Re-prime the pump according to its specific instructions. Check for leaks in suction lines.
- *Possible Cause:* Worn or damaged impeller.
- *Solution:* Inspect the impeller for damage. Replace if necessary.

- **Unusual Noise/Vibration:**

- *Possible Cause:* Debris lodged in the impeller.
- *Solution:* Disassemble and remove any foreign objects from the impeller.
- *Possible Cause:* Impeller loose on shaft or unbalanced.
- *Solution:* Ensure the impeller is securely fastened to the shaft. If unbalanced, replacement may be required.
- *Possible Cause:* Cavitation (pump running dry or insufficient suction).
- *Solution:* Ensure adequate water supply to the pump. Check for air leaks in the suction line.

## 8. SPECIFICATIONS

---

Feature	Detail
Model	QB70
Brand	UNbit
Material	Brass
Outer Diameter	70mm
Shaft Diameter	12mm
Item Weight	0.2 KG (approx. 0.44 lbs)
Compatibility	Designed for compatible 0.75hp water pump systems.

## 9. WARRANTY AND SUPPORT

---

This product is an individual component designed for integration into a larger pump system. As per the manufacturer's information, there is **No Warranty** explicitly provided for this specific impeller component. For any support or inquiries regarding the UNbit QB70 Brass Impeller, please contact your retailer or the UNbit customer service channel where the product was purchased.