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KATSU Tools 151441

KATSU Tools 100W Mini Water Booster Pump (Model 151441) - Instruction Manual

Brand: KATSU Tools | Model: 151441

Introduction

This manual provides essential information for the safe and efficient operation of your KATSU Tools 100W Mini Water Booster Pump, Model 151441. This automatic self-priming pump is designed for boosting water pressure in various domestic applications, including household water supply, well water systems, tap water, garden irrigation, and hot water circulation. Please read these instructions thoroughly before installation and use.

Safety Information

Always observe basic safety precautions to reduce the risk of fire, electric shock, and personal injury.

- Ensure the power supply matches the pump's specifications (220V/50Hz).
- Do not operate the pump with damaged cords or plugs.
- Keep children and unauthorized persons away from the operating pump.
- Disconnect power before performing any maintenance or repairs.
- Do not run the pump dry for extended periods, as this can cause damage. The pump features a dry-run protection mechanism.
- Install the pump in a well-ventilated area, protected from direct sunlight and freezing temperatures.
- Ensure proper grounding to prevent electric shock.

Product Overview and Features

The KATSU Tools 100W Mini Water Booster Pump is designed for reliable and efficient water pressure boosting. Its compact design and intelligent features ensure optimal performance and longevity.

Key Features:

- **Automatic Start Delay:** A 3-second delay upon startup protects the motor and enhances safety.
- **Automatic Stop (Water Stop Pump Stop):** The microcomputer control system detects water flow and automatically stops the pump when water flow ceases (e.g., when a tap is closed).
- **Dry-Run Protection:** If the pump operates for 6 minutes without water, it automatically stops. It will attempt to restart after one hour to check for water supply, continuing this cycle until water is detected.
- **Smart Flow Control:** For very low water flow conditions, the system automatically switches to a "small flow control mode" to ensure smooth operation and prevent "popping noise," extending the pressure switch's lifespan.

- **Durable Construction:** Features a brass impeller and copper motor for long-lasting service.
- **Compact Design:** Easy to install in various settings.



Image 1: Side view of the KATSU Tools 100W Mini Water Booster Pump, highlighting the motor and integrated control unit.

Specifications

Specification	Value
Voltage/Frequency	220V/50Hz
Current	0.45A
Power	100W
Maximum Head	20 meters
Maximum Flow Rate	22 liters/minute

Specification	Value
Maximum Suction	8 meters
Inlet and Outlet Diameter	12.7 mm (0.5 inch)
Operating Pressure	0.7-1.5 Bar
Maximum Hot Water Temperature	90°C
Product Dimensions (L x W x H)	220 x 190 x 205 mm
Product Weight	4.2 kg
Material	Brass, Copper
Color	Turquoise
Model Number	151441



Image 2: Close-up of the pump's specification label, detailing electrical and performance data.

Setup and Installation

Proper installation is crucial for the pump's performance and longevity. If you are unsure about any steps, consult a qualified professional.

1. **Location:** Choose a dry, well-ventilated location, protected from frost and direct sunlight. The pump should be installed as close as possible to the water source.
2. **Mounting:** Securely mount the pump on a stable, level surface using appropriate fasteners to minimize vibration and noise.
3. **Pipe Connections:**
    - Connect the inlet pipe from the water source to the pump's inlet port (typically marked "IN" or with an arrow pointing towards the pump). Ensure all connections are watertight using thread sealant tape.
    - Connect the outlet pipe to your household or garden water system from the pump's outlet port (typically marked "OUT" or with an arrow pointing away from the pump).
    - Use pipes with a diameter of 12.7 mm (0.5 inch) or larger to ensure optimal flow.
4. **Priming:** Before first use, the pump must be primed.
    - Open the priming port (usually a screw cap on top of the pump housing) and fill the pump casing with water until it overflows.
    - Replace the priming cap securely.
5. **Electrical Connection:** Connect the pump to a grounded 220V/50Hz power outlet. Ensure the electrical circuit is protected by a residual current device (RCD) for safety.



Image 3: Top view of the pump, illustrating the location of the priming cap and connection points.

Operating Instructions

The KATSU Tools Mini Water Booster Pump is designed for automatic operation.

1. **Initial Start-up:** After installation and priming, plug in the pump. The pump will initiate with a 3-second delay before starting.
2. **Automatic Operation:**
    - When a water tap or appliance connected to the pump is opened, the pump will automatically detect the water flow and start to boost pressure.
    - When the tap or appliance is closed, the pump's microcomputer control system will detect the cessation of water flow and automatically stop the pump.
3. **Dry-Run Protection:** If the water supply to the pump is interrupted and the pump runs without water for approximately 6 minutes, it will automatically shut down to prevent damage. It will then attempt to restart after one hour to check if the water supply has been restored. This cycle repeats until water is available.
4. **Small Flow Control:** For situations with very low water demand, the pump automatically adjusts its operation to maintain stable pressure and avoid intermittent "popping" noises, ensuring smooth performance.



Image 4: Front view of the pump, indicating the water inlet and outlet ports.

Maintenance

Regular maintenance ensures the longevity and optimal performance of your pump. Always disconnect the power supply before performing any maintenance.

- **Regular Inspection:** Periodically check the pump and connections for leaks, corrosion, or damage. Tighten any loose connections.

- **Cleanliness:** Keep the pump exterior clean and free from dust and debris to ensure proper ventilation.
- **Winterization (if applicable):** If the pump is installed in an area subject to freezing temperatures, drain the pump completely to prevent damage from ice expansion. Store it in a warm, dry place if possible.
- **Priming Check:** If the pump fails to start or deliver water, ensure it is properly primed.



Image 5: Angled view of the pump, demonstrating its compact and accessible design for maintenance.

Troubleshooting

Before contacting support, review the following common issues and solutions. Always disconnect power before troubleshooting.

Problem	Possible Cause	Solution
Pump does not start.	No power; clogged inlet/outlet; motor fault.	Check power connection and circuit breaker. Clear any blockages. If problem persists, consult a technician.
Pump runs but no water is delivered.	Pump not primed; air in system; low water source; clogged pipes.	Re-prime the pump. Check water source level. Inspect pipes for blockages or air leaks.
Pump cycles on and off frequently.	Small leak in system; faulty pressure switch; very low flow.	Check for leaks in plumbing. The pump's smart flow control should manage very low flow; if not, inspect the system.

Problem	Possible Cause	Solution
Pump is noisy.	Air in system; loose mounting; foreign object in impeller.	Bleed air from the system. Ensure pump is securely mounted. Disconnect power and inspect impeller if accessible.
Pump stops unexpectedly.	Dry-run protection activated; overheating; electrical fault.	Check water supply. Allow pump to cool down. Verify electrical connections.

Warranty and Support

For warranty information or technical support, please refer to the documentation provided with your purchase or contact KATSU Tools customer service. Keep your purchase receipt as proof of purchase.

Manufacturer: KATSU Tools

Model Number: 151441

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