

Aquapro 21855

AquaPro 21855 Aqua-PRO 3GPM 115V Water Pump User Manual

Model: 21855 | Brand: Aquapro

1. INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your AquaPro 21855 Aqua-PRO 3 Gallons Per Minute (GPM) 115V Water Pump. This universal pump features an automatic on-demand, adjustable pressure switch designed to regulate water flow for various fixtures. Its compact design makes it suitable for installations with limited space. Please read this manual thoroughly before using the product.

2. SAFETY INFORMATION

Always observe the following safety precautions to reduce the risk of injury or damage:

- **Electrical Safety:** Ensure the power supply matches the pump's voltage (115V AC). Disconnect power before performing any installation, maintenance, or troubleshooting. All electrical connections must be made by a qualified electrician and comply with local codes.
- **Water Pressure:** Do not exceed the maximum operating pressure of the pump.
- **Installation:** Mount the pump securely to prevent vibration and movement. Ensure proper ventilation around the pump.
- **Fluid Compatibility:** This pump is designed for water. Do not use it with flammable, corrosive, or other non-compatible liquids.
- **Temperature:** Do not operate the pump in temperatures below freezing or above its specified maximum operating temperature.

3. PRODUCT OVERVIEW

The AquaPro 21855 is a self-priming diaphragm pump designed for reliable water transfer. It features an integrated pressure switch that automatically turns the pump on and off based on demand, maintaining consistent water pressure. The pump is compact and versatile, suitable for various applications requiring a steady water supply.



Figure 1: AquaPro 21855 Aqua-PRO 3GPM 115V Water Pump. This image shows the compact blue and white pump unit with its inlet and outlet ports, and the black motor housing.

Key Features:

- **Automatic On-Demand Operation:** The pump activates when water flow is required and shuts off when demand ceases.
- **Adjustable Pressure Switch:** Allows for fine-tuning of the system's water pressure.
- **Compact Design:** Ideal for installations where space is limited.
- **Versatile Inlet Types:** Can be configured with different inlet types and fittings to suit various applications.

4. SPECIFICATIONS

Feature	Detail
Model Number	21855
Brand	Aquapro

Feature	Detail
Product Type	Water Pump
Maximum Flow Rate	3 Gallons Per Minute (GPM)
Voltage	115 Volts (AC)
Power Source	Corded Electric
Style	Submersible <i>(Note: While listed as submersible, typical diaphragm pumps like this are surface-mounted. Verify specific installation requirements.)</i>
Item Weight	6.13 Pounds
Product Dimensions (L x W x H)	10.5 x 5.75 x 5.25 inches
UPC	880268168496
Batteries Required/Included	No

5. SETUP AND INSTALLATION

Proper installation is crucial for the pump's performance and longevity. Follow these steps carefully:

1. Mounting:

- Select a dry, well-ventilated location that is easily accessible for maintenance.
- Mount the pump securely to a solid surface using appropriate fasteners. Ensure the mounting feet are stable to minimize vibration.
- Position the pump as close as possible to the water source to reduce suction lift.

2. Plumbing Connections:

- Identify the inlet and outlet ports on the pump. The pump is designed to be configured with different inlet types and unique fittings.
- Connect the suction line (inlet) from the water source to the pump's inlet port. Use flexible hose to reduce vibration and noise. Ensure all connections are airtight to prevent air leaks, which can affect priming.
- Connect the discharge line (outlet) from the pump to your water system. Install a check valve in the discharge line if backflow is a concern.
- Use thread sealant or PTFE tape on all threaded connections to ensure a watertight seal.

3. Electrical Connections:

- Ensure the power supply is 115V AC.
- Connect the pump's power cord to a grounded 115V AC outlet. If hardwiring, consult a qualified electrician to ensure compliance with all local electrical codes.
- Install appropriate circuit protection (e.g., fuse or circuit breaker) as required by local regulations.

4. Priming (if necessary):

- While the pump is self-priming, ensuring the suction line is filled with water before the first operation can aid in faster priming.
- Open a faucet or valve in the discharge line to allow air to escape during priming.

6. OPERATING INSTRUCTIONS

Once installed, operating the AquaPro 21855 pump is straightforward:

1. Initial Start-up:

- Ensure all plumbing connections are secure and leak-free.
- Verify the power supply is connected.
- Open a faucet or valve in the system to allow water to flow.
- Apply power to the pump. The pump will begin to run and prime itself. Once water flows steadily from the open faucet, close it.
- The pump's automatic pressure switch will turn the pump off once the system reaches its set pressure.

2. Normal Operation:

- The pump will automatically turn on when a faucet or fixture is opened and water pressure drops.
- It will turn off automatically when all faucets are closed and system pressure is restored.

3. Adjusting Pressure Switch:

- The pump features an adjustable pressure switch. Refer to the pump's label or specific documentation for the exact adjustment procedure. Typically, this involves turning a screw on the pressure switch housing.
- **Caution:** Adjusting the pressure switch incorrectly can damage the pump or plumbing system. Make small adjustments and monitor system pressure.

7. MAINTENANCE

Regular maintenance ensures optimal performance and extends the life of your pump:

- **Regular Inspection:** Periodically check all plumbing and electrical connections for leaks, corrosion, or damage. Tighten any loose connections.
- **Cleanliness:** Keep the pump exterior clean and free from debris. Ensure ventilation openings are not obstructed.
- **Filter Maintenance:** If an inlet filter is installed, clean it regularly to prevent clogging and maintain flow rate.
- **Winterization (for cold climates):** If the pump is installed in an area subject to freezing temperatures, it must be drained and winterized to prevent damage. Disconnect power, drain all water from the pump and lines, and store in a warm, dry place or fill with non-toxic RV antifreeze.

8. TROUBLESHOOTING

Refer to the table below for common issues and their solutions:

Problem	Possible Cause	Solution
Pump does not run	No power; Blown fuse/tripped breaker; Faulty wiring; Motor failure.	Check power supply and connections; Replace fuse/reset breaker; Inspect wiring (consult electrician); Contact support.
Low flow or no water output	Air leak in suction line; Clogged inlet filter; Low water source; Kinked hose; Worn pump head.	Check and seal all suction connections; Clean inlet filter; Ensure adequate water supply; Straighten hoses; Contact support for pump head inspection.
Pump runs continuously or cycles rapidly	Leak in plumbing system; Pressure switch setting too low; Accumulator tank issue (if present); Air in system.	Inspect plumbing for leaks; Adjust pressure switch (refer to section 6); Check accumulator tank pressure; Bleed air from system.
Excessive noise or vibration	Loose mounting; Air in system; Debris in pump; Worn bearings.	Secure mounting; Bleed air from system; Inspect pump for foreign objects (disconnect power first); Contact support.

If you encounter issues not listed here or if the suggested solutions do not resolve the problem, please contact AquaPro customer support.

9. WARRANTY AND SUPPORT

For warranty information, please refer to the documentation included with your purchase or visit the official Aquapro website. For technical assistance, replacement parts, or further inquiries, please contact Aquapro customer support.

Manufacturer: Aqua Pro

Contact Information: Please refer to the product packaging or the official Aquapro website for the most current contact details.