

Acquaer XSP-100PM

Acquaer 1HP 4345GPH Submersible Sump Pump User Manual

Model: XSP-100PM | Brand: Acquaer

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation, installation, and maintenance of your Acquaer 1HP 4345GPH Submersible Sump Pump. Designed for high performance, this pump is ideal for various water removal tasks, including draining hot tubs, pools, basements, and garden ponds. Please read this manual thoroughly before use to ensure proper function and longevity of your pump.

2. IMPORTANT SAFETY INFORMATION

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

- **Electrical Safety:** Ensure the power supply matches the pump's requirements (115 Volts AC). Do not operate with damaged cords or plugs.
- **Immersion:** The pump must be fully immersed in water during operation to prevent dry running, which can cause motor burnout.
- **Liquid Compatibility:** Do not use this pump for flammable, explosive, or corrosive liquids. It is not designed for salt water or brine.
- **Handling:** Do not lift the pump by its power cord or discharge hose. Use the integrated carrying handle for transport.
- **Freezing:** Protect the pump from freezing temperatures during cold weather to prevent internal damage.
- **Ventilation:** During operation, a stream of water spraying from the pump is a normal venting process.

CAUTION

- ▲ During operation, a stream of water spraying from the pump is normal venting process.
- ▲ Please keep the pump all immersed in water when using.
- ▲ Do not use it for flammable, explosive or corrosive liquids.
- ▲ The unit is not designed for salt water or brine.



This image illustrates critical safety warnings: Do not lift the pump by ropes or pull the power cable. Always avoid dry running to prevent damage. The minimum stop level is 1/5 inch.

3. PRODUCT OVERVIEW

The Acquaer 1HP Sump Pump is engineered for efficient and reliable water removal. Key features include:

- **High Performance:** 1 HP motor with a maximum flow rate of 4345 GPH and a maximum head of 30 ft.
- **Durable Construction:** Reinforced engineering thermoplastic casing resists corrosion and abrasion.
- **Thermal Overload Protection:** Built-in protector prevents motor burnout from dry running.
- **Low Suction Base:** Efficiently drains water down to 1/5 inch from the surface.
- **Portable Design:** Features a large carrying handle for easy transport.



This image displays the Acquaer 1HP Submersible Utility Pump along with its included accessories, such as the elbow adapter and snap coupling adapter.

PRODUCT DETAILS



This image highlights key product details including the portable handle, 19.7ft UL power cord, 3/4" NPT adapter, 1-1/2" discharge, and thermally protected motor.



LARGE CARRYING HANDLE

Compact and user-friendly design
Handy and easy to transport

MECHANICALLY SEALED HOUSING

Rugged engineering
Thermoplastic material
Corrosion & abrasion resistance



LOWER BASE FLARE

Easily drain water down to 1/5" of the
surface in manual mode

This image showcases the pump's design elements: a large carrying handle for easy transport, a mechanically sealed housing for durability, and a lower base flare for efficient water drainage down to 1/5 inch.

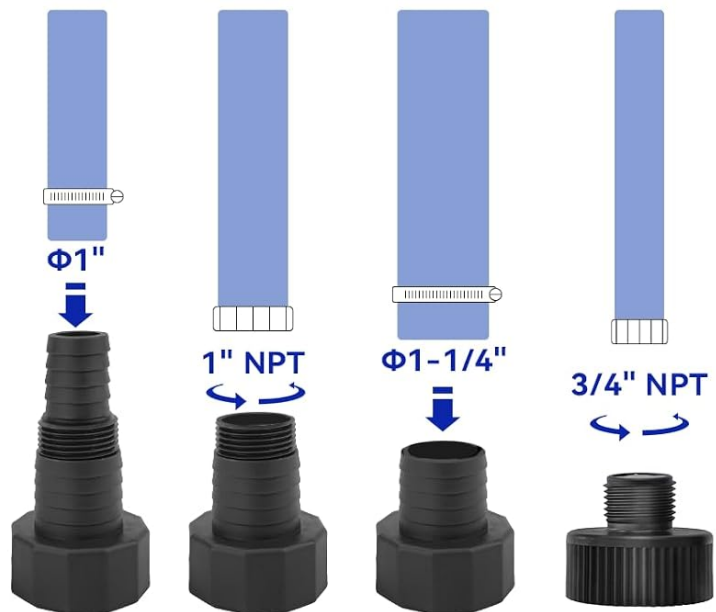
4. SETUP

1. **Choose Location:** Place the pump on a stable, level surface in the area to be drained. Ensure it is fully submerged in water during operation.
2. **Attach Discharge Hose:** The pump comes with a 1-1/2" NPT discharge. Use the provided 1-1/2" elbow adapter and snap coupling adapter for 3/4", 1", or 1-1/4" hoses. Select the appropriate adapter for your hose size.
3. **Secure Hose:** Ensure all connections are tight to prevent leaks. Direct the discharge hose to a suitable drainage area away from the pump.
4. **Power Connection:** Plug the 19.7 ft UL power cord into a grounded 115V AC electrical outlet.



MULTIPLE HOSE FITTING

Adapter can be cut into different sizes to fit multiple hoses.



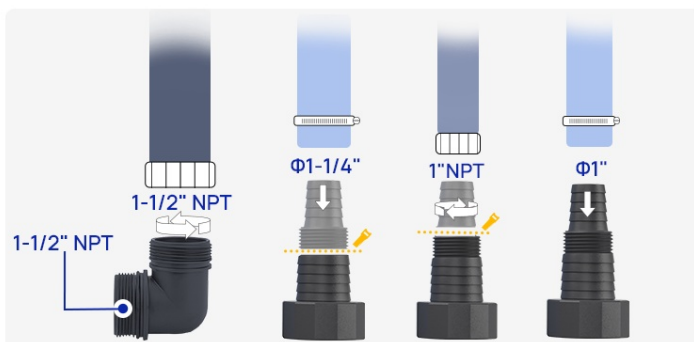
The larger the flow is, the wider the outlet should be.



This diagram illustrates the versatility of the pump's multi-outlet adapter, which can be cut to fit various hose sizes including 1", 1-1/4", and 3/4" NPT, as well as a 1-1/2" NPT elbow adapter. Wider outlets are recommended for larger flow rates.

ADAPTER INSTALLATION

Hose Adapter Coupling



This image provides a visual guide for installing the hose adapter coupling, showing how different hose sizes (1-1/4", 1", 3/4") connect to the 1-1/2" NPT discharge.

ADAPTER INSTALLATION

3/4" adapter for standard garden hose



This image demonstrates the installation of the 3/4" adapter, allowing the pump to connect to a standard garden hose.

5. OPERATING INSTRUCTIONS

The Acquaer sump pump is designed for simple "plug and play" operation.

1. **Initiate Pumping:** Once the pump is properly set up and submerged, plug it into a suitable electrical outlet. The pump will begin operating automatically.
2. **Monitor Drainage:** The low suction base allows the pump to efficiently drain water down to 1/5 inch from the surface. Monitor the water level during operation.
3. **Stop Pumping:** To stop the pump, simply unplug it from the electrical outlet.
4. **Applications:** This pump is suitable for a wide range of applications including flooded basements, cellars, pools, hot tubs, ponds, sump basins, water tanks, and crawlspaces.

PLUG AND PLAY

Effortlessly Achieve Quick Drainage!



This image demonstrates the "Plug and Play" functionality, showing the pump actively draining water from a pool, highlighting its quick drainage capability.

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MAX
4345
GPH



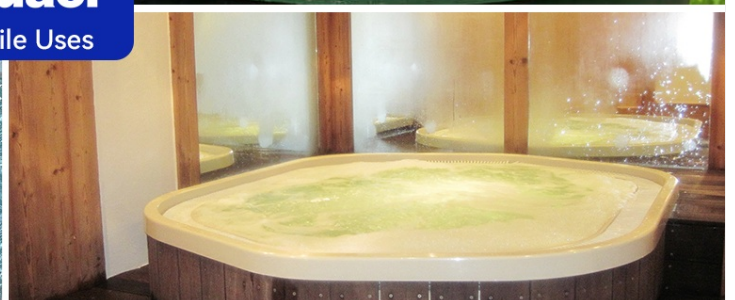
1 HP

Max. Head 30 ft
Max. Dia. of Particle 1/5"

This image shows the 1HP Acquaer Sump Pump submerged in water, demonstrating its powerful operation with a maximum flow of 4345 GPH and a maximum head of 30 ft, capable of handling particles up to 1/5 inch.



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Versatile Uses



This image illustrates the versatile uses of the Acquaer pump, including draining garden ponds, rain barrels, hot tubs, and pools.

6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your sump pump.

- **Prevent Freezing:** In cold climates, ensure the pump is drained and stored in a frost-free environment during winter months to prevent damage from freezing water.
- **Clean Regularly:** Periodically inspect the pump's intake screen and impeller for debris. Clear any blockages to maintain efficient flow.
- **Avoid Dry Running:** Always ensure the pump is fully submerged when operating. The built-in thermal overload protector will shut off the pump if it runs dry, but continuous dry running can reduce its lifespan.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Pump does not start.	No power, tripped circuit breaker, motor overheated.	Check power connection and circuit breaker. Allow motor to cool if thermal overload protector activated.
Pump runs but does not pump water or pumps slowly.	Clogged intake screen or impeller, air lock, discharge hose kinked or blocked, insufficient water level.	Clear debris from intake/impeller. Ensure pump is fully submerged. Check for kinks or blockages in the discharge hose.
Pump cycles too frequently.	Water returning to sump, small sump pit, float switch issue (if applicable to other models).	Ensure discharge hose is not allowing water to flow back. Consult a professional if issues persist.

8. SPECIFICATIONS

Feature	Detail
Model Number	XSP-100PM
Power	1 HP
Maximum Flow Rate	4345 GPH (72.4 Gallons Per Minute)
Maximum Head	30 Feet
Voltage	115 Volts (AC)
Power Source	AC
Discharge Size	1-1/2" NPT (with adapters for 3/4", 1", 1-1/4")
Material	Thermoplastic
Product Dimensions	Length: 9.06", Width: 6.11", Height: 13.19"
Item Weight	10.58 pounds

Feature	Detail
Power Cord Length	19.7 ft

PERFORMANCE



Discharge NPT(In)	GPH OF WATER @ TOTAL FT. OF HEAD				Max. Head Ft
	5ft	10ft	20ft	25ft	
1-1/2 in	4345	3713	2567	1442	30 ft

This performance chart details the pump's discharge rate in Gallons Per Hour (GPH) at various total feet of head, with a maximum head of 30 ft.



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PRODUCT DIMENSIONS

Suitable for hot tubs, sump basins, rain barrels, etc.

Length: 9.06"

Width: 6.11"

Height: 13.19"

This image provides the product dimensions: Length 9.06", Width 6.11", Height 13.19", indicating its compact size suitable for various applications.

9. WARRANTY INFORMATION

The Acquaer 1HP 4345GPH Submersible Sump Pump comes with a **Two-Year Warranty**. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims.

10. CUSTOMER SUPPORT

For professional advice on installation, maintenance, or any other inquiries regarding your Acquaer sump pump, please contact Acquaer customer service. You can also visit the official Acquaer store on Amazon for more information and products: [Acquaer Amazon Store](#).

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question