



Single-Speed Whirlpool System

Single-speed whirlpool systems are offered on numerous MAAX Aker models of various sizes, shapes, and surface materials. Depending on the model selected, the unit is equipped with a complete multi-jet factory installed and tested system designed for personal usage in a permanent installation. (Refer to specific model for exact features.)

These guidelines are recommended by MAAX Aker by for the proper assembly and operation of the whirlpool system. A careful review of these procedures (and any referenced publications) before starting is important in avoiding unnecessary problems resulting in an improper assembly or operation.

NOTE: All drawings in this publication are typical, and may appear different than the actual items being installed.

WARNING!
**NEVER LIFT OR HANDLE WHIRLPOOL
BY SYSTEM PIPING AT ANY TIME.
LIFTING THE UNIT BY THE PIPING CAN
CAUSE SYSTEM DAMAGE.**

SPECIAL NOTE TO INSTALLER

★ It is the sole responsibility of the installer to determine, prior to installation, the requirements necessary for compliance with all codes involving the unit or the installation!

★ All paperwork packaged with the unit and any associated options or accessories should be saved and presented to the home owner upon completion of the installation!

★ All published unit dimensions are for reference only. Any critical dimensions required for installation should be taken directly from the unit being installed!

★ Any independent changes made to the whirlpool system (or unit) beyond those required for normal installation can void all warranties! (Refer to warranties for further information.)

IMPORTANT SAFETY INSTRUCTIONS

WARNING! Basic precautions should always be observed regarding the installation and the operation of a whirlpool system, including the following:

1. READ AND FOLLOW ALL INSTRUCTIONS.

2. **DANGER:** To reduce the risk of injury, **DO NOT** allow children to use or operate the whirlpool unless closely supervised by an adult at all times.
3. Use this unit only for its intended purpose as described in this publication. **DO NOT** use attachments not recommended by the manufacturer.
4. **NEVER** drop or insert any object into any opening.
5. **DO NOT** operate the whirlpool without the guard (suction cover) installed over the suction fitting.
6. The whirlpool system can only be connected to an electric supply that is protected by a ground-fault-circuit-interrupter (GFCI). The GFCI should be provided by the installer and tested on a routine basis.
 - To test the GFCI, push the test button. The GFCI should interrupt power.**
 - Push the reset button. Power should be restored.**

If the GFCI fails to operate in this manner, there is a ground current flowing, indicating the possibility of an electric shock. **DO NOT USE THE WHIRLPOOL. DISCONNECT THE WHIRLPOOL SYSTEM,** and have the problem corrected by a qualified service representative before continuing usage.

7. A green colored terminal (or a wire connector marked "G", "GR", "Ground", or "Grounding") is provided inside the terminal compartment of the pump. To reduce the risk of electrical shock, connect this terminal to the grounding terminal in the electrical service supply panel using a continuous green insulated copper wire equivalent in size to the service conductors supplying this equipment, but no smaller than No.12 AWG (3.3 mm).
8. A pressure wire connector on the pump, near the terminal compartment, is provided to permit connection of a No. 8 AWG (8.4 mm²) solid copper bonding conductor between the system and all other electrical equipment and exposed metal in the vicinity, as needed to comply with local requirements.

9. SAVE THESE INSTRUCTIONS.

Inspection Guidelines

A careful check of the whirlpool system should be conducted upon receipt of the unit. The standard whirlpool configuration is shown in Figure 1. A single-speed system with a heater is shown in Figure 2. If the unit has a factory-fitted:

☐ **alternate pump location,**

refer to the *Supplemental Assembly* information packaged with the accessory items for additional item checks before continuing. Notify your supplier immediately if any questions or problems are encountered during this process.

DO NOT INSTALL UNIT WITHOUT FIRST ADDRESSING QUESTIONS WHICH ARISE DURING THE INSPECTION!

Basic Single-Speed System Check

- ✓ Check clear plastic tubing for attachment on pneumatic switch button body and on control box.
- ✓ Check system to ensure all trim is in place and for color ordered.

Basic Module Check

An individual check list is included in the installation guidelines packaged with the module. Refer to the listed publication for further information before continuing.

Installation Guidelines

Framing and Installation Requirements

Framing and dimensional requirements for the module are included in the installation guidelines packaged with the basic unit. Refer to the unit installation guidelines for further information before continuing.

WARNING!
ADEQUATE ACCESS MUST BE PROVIDED AT THE PUMP LOCATION.

The basic single-speed whirlpool system is produced with the pump secured to the unit base and with the complete system assembled at the factory.

Figure 1 - Basic Whirlpool System
 (Typical Tub Illustrated)

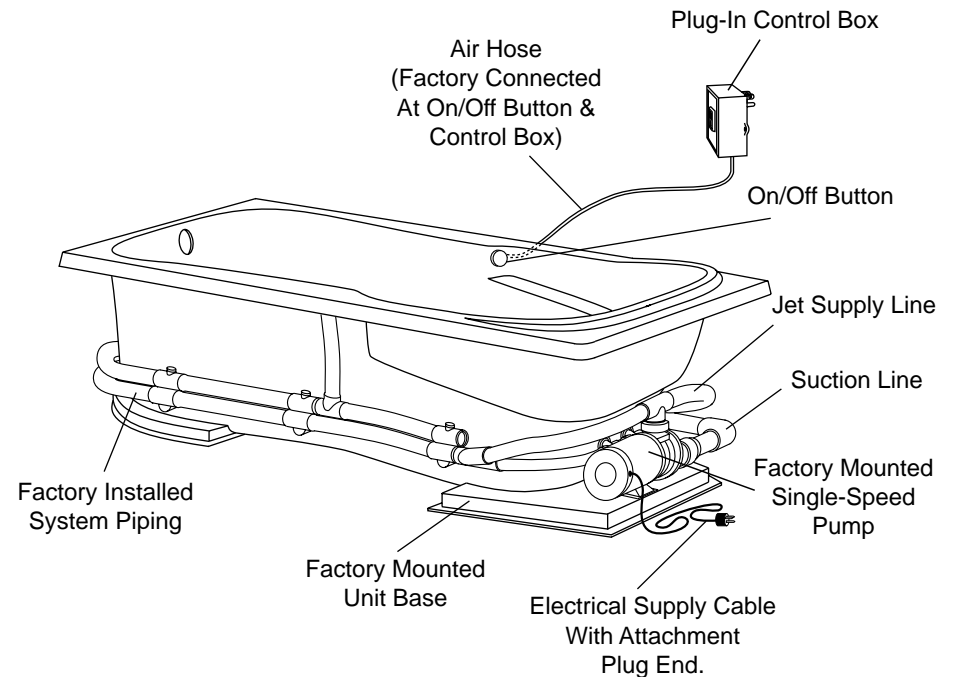


Figure 2 - Whirlpool System With In-Line Heater
 (Factory Installed Option)

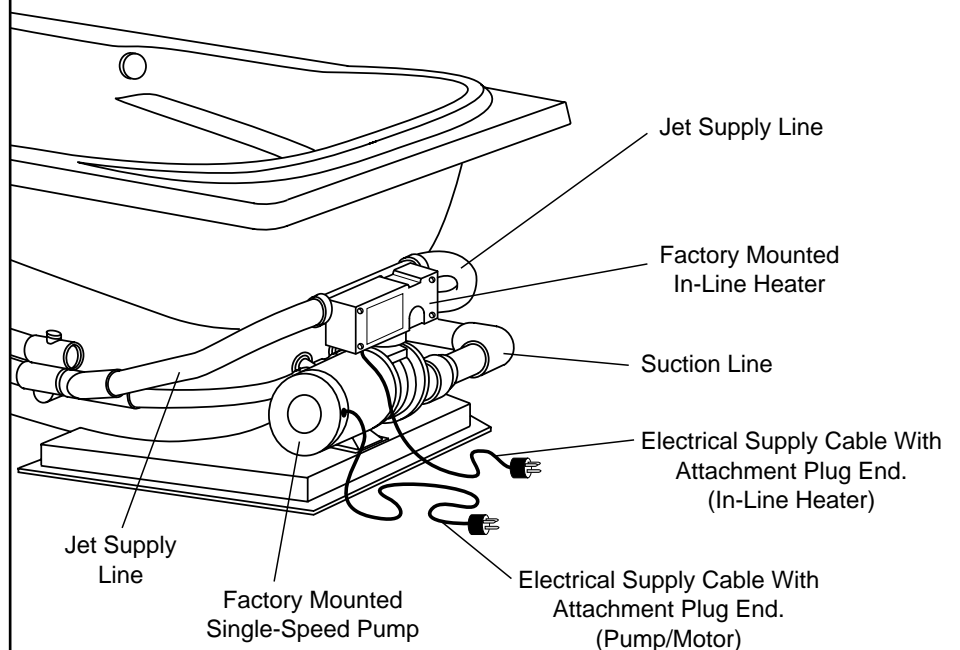
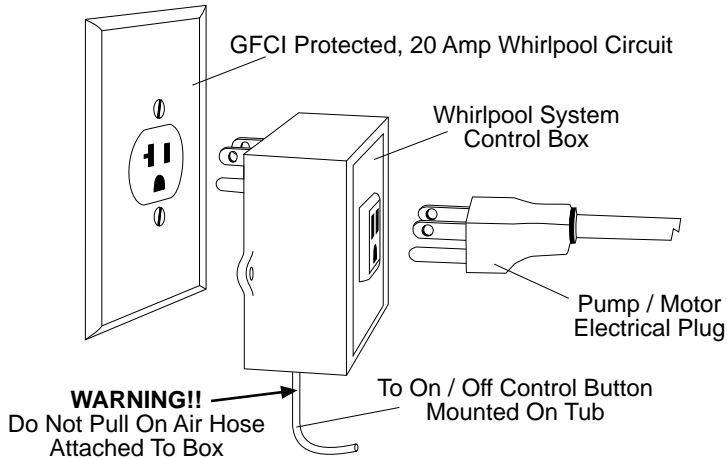


Figure 3 - Control Box Connections



If the unit has a factory-fitted:

☐ **alternate pump location**, additional on-site assembly will be required. Refer to the *Supplemental Assembly* information packaged with accessory items before continuing.

Electrical Service and Connections

When providing electrical service, basic precautions should be observed, including the following:

- ★ All wiring should be done by a licensed electrician in accordance with all applicable local and national codes.
- ★ The system must be connected to a dedicated circuit(s) protected by a ground-fault-circuit-interrupter(s), (GFCI). (*Installer supplied*)
- ★ Properly ground the system.

WARNING!
RISK OF ELECTRICAL SHOCK!
MAKE SURE POWER IS OFF WHEN WIRING THE WHIRLPOOL SYSTEM.

Single-Speed Pump Wiring

Each whirlpool is supplied with a special system control box. The control box includes an air hose that is secured to the pneumatic button and attached to the control box by the box manufacturer.

A single electrical supply cable with an attachment plug, extending from the wiring compartment on the pump/motor, fitted through a strain relief fitting, is supplied as a standard component of the system. All internal pump/motor wiring connections have been completed by the pump/motor manufacturer. The field electrical connection is a single dedicated service line, protected by a ground-fault-circuit-interrupter (GFCI), running from the main panel to an independently mounted junction box with an appropriate electrical receptacle. Breaker size, junction box mounting, receptacle selection and all field electrical connections must be in compliance with applicable codes for the installation site. The control box is plugged into the GFCI circuit receptacle and the pump supply cable plugged into the control box as shown in Figure 3.

Optional In-Line Heater In-Line Heater Wiring

A single electrical supply cable with an attachment plug, extending from the wiring compartment on the in-line heater, is supplied as a standard component of the in-line heater. All internal wiring connections have been completed by the heater manufacturer. The field electrical connection is a single dedicated service line, (independent of the pump/motor circuit), protected by a ground-fault-circuit-interrupter (GFCI), running from the

main panel to an independently mounted junction box with an appropriate electrical receptacle for the in-line heater attachment plug. Breaker size, junction box mounting, receptacle selection and all field electrical connections must be in compliance with applicable codes for the installation site. No control box is necessary for the in-line heater system. All controls are housed internally in the heater.

Whirlpool System Field Testing

ATTENTION INSTALLER!
WHIRLPOOL SYSTEM MUST BE FIELD TESTED FOR LEAKS BEFORE FRAMING IS COVERED OR THE UNIT ENCLOSED.

After completing all water supply, drain and electrical connections, use the following procedure to test the system and all fittings for leaks.

- Step 1:** Thoroughly clean tub of all debris which could damage the system, including small particles which could lodge in the jets or the pump.
- Step 2:** Close the drain and fill tub to the top of trim ring on the highest jet. (See Figure 4)
- Step 3:** Start whirlpool and operate continuously for 20 minutes. During this cycle, check each jet for proper operation. After careful inspection, fully close all the jets (See Figure 7) and continue running.
- Step 4:** Upon completion of this cycle, inspect all fittings and connections for leaks before draining.

WARNING!
AVOID OPERATING THE WHIRLPOOL SYSTEM WITHOUT ADEQUATE WATER IN THE TUB.

Whirlpool System Care and Cleaning

Through routine use, the whirlpool system can collect residues from soap, bath additives, and natural body oils. Additional deposits can also collect from minerals or particles found in the water.

WARNING!
NEVER USE ABRASIVE MATERIALS, NOR ABRASIVE CLEANERS ON THE WHIRLPOOL TRIM. (JETS, AIR CONTROLS AND SUCTION COVERS)

EXTREME CAUTION is urged regarding the use of any cleaner, acid or solvent on the whirlpool system trim.

Only use MILD liquid detergent on trim! Incorrect cleaning materials can damage finish on drain/overflow and supply valves.

READ AND FOLLOW ALL PACKAGE LABELS AND INSTRUCTIONS!

The following procedure is recommended to remove most deposits and avoid major accumulations inside the system piping. The actual schedule for cleaning will depend on system usage and water quality, but should not exceed 90 days.

Step 1: Fill tub to the top of the trim ring on the highest jet with luke-warm water. (See Figure 4)

Step 2: Add 1 cup low-sudsing, automatic dishwasher detergent and run the whirlpool system for 20 minutes.

Step 3: Drain tub, refill with clean water and operate the system for 20 minutes to rinse. (Rinse thoroughly.)

Occasionally sanitize the system by following the cleaning procedure above, but substitute 1 cup of household bleach for the dishwasher detergent. (Rinse very thoroughly.)

Refer to the unit installation for guidelines on unit surface care and cleaning.

Whirlpool System Trouble Shooting

Whirlpool did not start?

- ✓ Check GFCI circuit breaker.
- ✓ Push pneumatic switch button to ensure system is turned "ON".

- ✓ Confirm control box and pump/motor are plugged in.
- ✓ Check pneumatic connector line (plastic tube) to ensure it is attached on switch body and pump.
- ✓ Have wiring connections checked. (Call installer or electrician.)
- ✓ Thermal Limiter (in pump) may have engaged. (Call installer or supplier.)

Pump "Hums", but no water action?

- ✓ Make sure water is to the top of the trim ring on the highest jet.
- ✓ Check highest jet for blockage.
- ✓ Check suction line connection at pump intake port. **(HAND TIGHTEN UNIONS ONLY!)**
- ✓ Have pump checked for impeller obstruction or other malfunction. (Call installer or supplier.)

Restricted flow from one or more jets?

- ✓ Confirm jet is open to full flow. (See Figure 7)
- ✓ Suction inlet may be restricted. Clean and remove obstructions from suction safety cover.
- ✓ Check each jet for blockage.
- ✓ Have pump-to-jet supply line checked for blockage. (Call installer or supplier.)

Water has excessive foaming?

- ✓ Clean and sanitize whirlpool system. (See *Whirlpool System Care*)

WARNING!
ANY SERVICING NOT MENTIONED ABOVE SHOULD BE PERFORMED BY A QUALIFIED SERVICE REPRESENTATIVE.

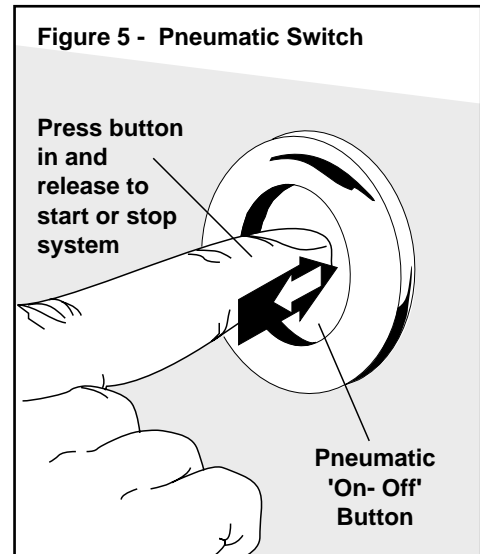
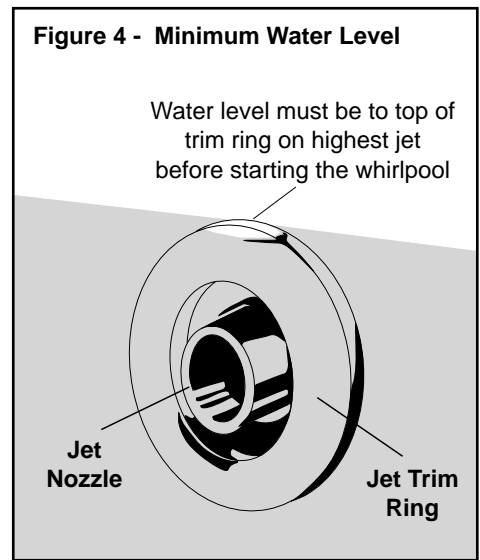
SINGLE-SPEED SYSTEM OPERATION

WARNING!
AVOID OPERATING THE WHIRLPOOL SYSTEM WITHOUT ADEQUATE WATER IN THE TUB.

Before using the whirlpool for the first time, the system should be cleaned as described in the *Whirlpool System Care and Cleaning* section of this guide.

Step 1: Close the drain and fill tub to desired water level. Water level must be at least to the top of trim ring on highest jet before whirlpool system is started. (See Figure 4)

Step 2: To start a whirlpool equipped with a single-speed pump, depress the pneumatic switch button and release as shown in Figure 5. To stop the whirlpool or to restart the system, depress the pneumatic switch button and release.

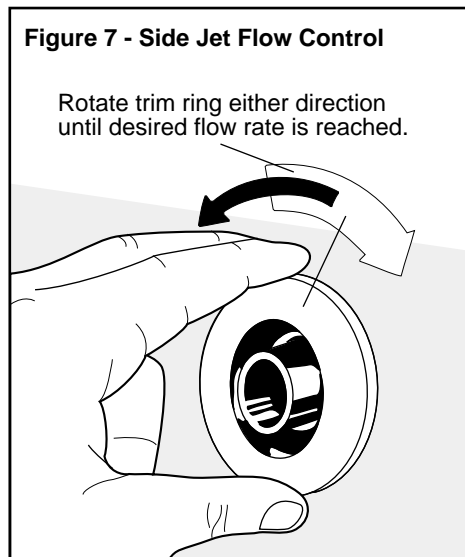
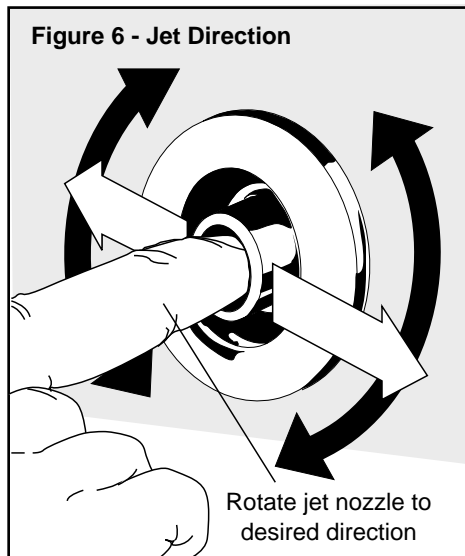


On systems equipped with an optional in-line heater, the heater is automatically operated through the internal heater controls.

Step 3: To adjust directional flow of any jet, rotate the jet nozzle to the desired position as shown in Figure 6.

Step 4: To change (increase or decrease) the flow of the jet(s), rotate the outer trim ring clockwise or counter-clockwise until desired flow is reached. (See Figure 7)

Step 5: Drain and thoroughly rinse the tub and flush the whirlpool system after each use to help reduce the build-up of soap scum or body oils in the system supply lines. Follow the care and cleaning recommendations listed in this guide.



MAAX Aker as the manufacturer of Bath, Tub/Shower, Shower and Whirlpool Equipped Modules, reserves the right without prior notice to:

- a. Modify the design and manufacture of its existing products or product lines without incurring any obligation to make like modifications to products previously manufactured.
- b. Add new products, product lines and/or colors and options.
- c. Discontinue existing products, product lines and/or colors and options.

Any claims, statements or contracts made regarding materials, manufacturing methods, duration and/or obligations involving MAAX Aker other than those stated in the MAAX Aker written Limited Warranty are disclaimed. Review the terms and conditions of the Limited Warranty.

Code compliance for the basic unit structure and construction is monitored by recognized groups using accepted testing and inspection procedures.

**ANSI Z 124.1 - 1995
American National Standard
for Plastic Bathtub Units**

MAAX Marion
4601 Eighth Avenue
Marion, IA 52302

MAAX Martinsburg
718 Mid-Atlantic Parkway
Martinsburg, WV 25401

MAAX Plymouth
2121 Walter Glaub Dr.
Plymouth, IN 46563

MAAX Valdosta
1625 James P. Rodgers Road
Valdosta, GA 31601

**GELCOATED FIBERGLASS AND VACUUM
FORMED ACRYLIC LIMITED WARRANTY**

MAAX Aker extends to the original purchaser and subsequent consumer a limited warranty on MAAX Aker Gelcoated Fiberglass and Vacuum Formed Acrylic modules (herein called "unit") against defects in materials and/or workmanship, which results in a significantly altered appearance or affects the performance of the unit for its intended purpose during the time period stated from date of purchase.

GELCOATED FIBERGLASS UNIT.....3 YEAR DURATION
VACUUM FORMED ACRYLIC UNIT.....10 YEAR DURATION

During this time period, MAAX Aker will, at its discretion (following inspection and verification of the claimed defect by an authorized company representative) either repair and/or refinish the unit or supply a replacement unit of comparable size and color without charge, but excluding any costs associated with the removal of and/or reinstallation of the unit. All MAAX Aker authorized and installed options and accessories are addressed under a separate warranty coverage program titled: OPTIONS AND ACCESSORIES LIMITED WARRANTY.

THIS WARRANTY DOES NOT COVER DEFECTS RESULTING FROM:

- (a) improper unit installation, the surrounding structure or plumbing connections beyond the recommendations supplied by MAAX Aker within the scope of applicable codes and ordinances; or
- (b) accident, abuse, misuse, negligence, fire, flood, or acts of God; or
- (c) unreasonable use, including any use beyond that intended for the unit and/or failure to follow the Care and Maintenance Instructions for the unit; or
- (d) any unauthorized alteration or modification to the unit beyond those required for normal installation, the addition of auxiliary powered devices or systems including but not limited to those which generate light, heat, or steam, or any other deviation to the unit not specifically designed for the unit, nor authorized in writing or installed by MAAX Aker; or
- (e) removal of unit from the initial installation site; or
- (f) the additions of enclosures, handicap accessories, grab bars, and/or other appliances and fittings (including installation technique) not specifically designed for the unit, nor authorized in writing or installed by MAAX Aker.

REPAIR, REFINISHING, OR THE SUPPLY OF A REPLACEMENT UNIT UNDER THIS WARRANTY SHALL BE THE EXCLUSIVE REMEDY. MAAX AKER SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES, INCLUDING ANY DAMAGE TO THE BUILDING, ITS CONTENTS OR OCCUPANTS, OR FOR BREACH OF ANY EXPRESSED OR IMPLIED WARRANTY. ANY IMPLIED WARRANTY REGARDING UNIT FITNESS FOR A PARTICULAR PURPOSE IS LIMITED IN DURATION TO THE TERMS OF THIS WARRANTY.

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