

Jacuzzi®

J-P75, J-P100, J-P150 Pump
Installation and Operating Instructions



IMPORTANT SAFETY INSTRUCTIONS

⚠ WARNING: Before installing this product. Read and follow all warning notices and instructions accompanying this pump. Failure to follow safety warnings and instructions can result in severe injury, death or property damage

READ AND FOLLOW ALL INSTRUCTIONS

⚠ WARNING: To reduce the risk of injury, do not permit children to use this product unless they are closely supervised at all times.

⚠ WARNING: RISK OF ELECTRIC SHOCK.

Connect only to a branch circuit protected by a ground-fault circuit interrupter (GFCI) Contact a qualified electrician, if you cannot verify that the circuit is protected by a GFCI” and “ATTENTION: CONNECTER UNIQUEMENT A UN CIRCUIT PROTÉGÉ PAR UN DISJONCTEUR DIFFERENTIEL DE CLASSE A” This marking is to be installed where it is visible during installation.

The unit must be connected only to a supply circuit that is protected by a ground-fault circuit-interrupter (GFCI). Such a GFCI should be provided by the installer and should be 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, the GFCI is defective. If the GFCI interrupts power without the test button being pushed, a ground current is flowing, indicating the possibility of an electric shock. Do not use this pump. Disconnect the pump and have the problem corrected by a qualified service representative before using.

⚠ WARNING: TO REDUCE THE RISK OF ELECTRIC SHOCK, REPLACE DAMAGED CORD IMMEDIATELY

⚠ CAUTION: This pump is for use with permanently installed pools and may be used with hot tubs and spas if so marked. Do not use with storable pools, tubs. A permanently installed pool is constructed in or on the ground or in a building such that it cannot be readily disassembled for storage. A storable pool is constructed so that it may be readily disassembled for storage and reassembled to its original integrity.

SAVE THESE INSTRUCTIONS



LISTED AND TESTED BASED ON
UL 1081

GENERAL

When you receive your Jacuzzi® J-P series pump, check the carton for damage. Open the carton and check the pump for concealed damage, such as cracks, dents, or a bent base. If you find damage, contact the shipper or the distributor where the pump was purchased.

The pump must be placed on a solid foundation that will not vibrate. Jacuzzi® recommends bolting the pump to the foundation and providing adequate drainage should any leaks develop.

	115 volts			230 volts		
Jacuzzi® Pump	50 FT	100 FT	150 FT	50 FT	100 FT	150 FT
Jacuzzi® J-P75	12	12	10	14	14	14
Jacuzzi® J-P100	12	10	8	14	14	14
Jacuzzi® J-P150	10	10	8	14	14	12

FEATURES

- Continuous duty rated motor
- Precision reinforced moulded high head impeller, giving extra performance
- Single piece moulded body for added strength and longer life
- Rapid priming diffuser quickly corrects loss of water flow
- Quick and easy disassembly for servicing
- Large capacity basket with easily removed ramp on lid
- Ability to adjust factory pre-set speeds for optimum water flow and maximum energy savings for your pool and its equipment.

ELECTRICAL

All electrical work must be performed by a licensed electrician and conform to all federal, state and local codes. When installing and using this electrical equipment, basic safety precautions should always be followed, including the following: The correct voltage and frequency as specified on the pump data plate is necessary for proper performance and long motor life. Make sure that the wiring specification meets or exceeds the motor requirements (230V or 115V), see the following for recommendations.

1. When in doubt, use a heavier gauge (larger diameter) wire, which helps the motor to run cooler and more efficiently.
2. Make sure all electrical connections are clean and tight.
3. Cut wires to the appropriate length so they don't overlap or touch when connected to the terminal board, and insulate all connections carefully to prevent grounding or short circuits.
4. Permanently ground the motor using the green ground terminal located on the inside of the motor canopy, under the access plate.
5. Use the correct wire size and type specified by the National Electrical Code, "NEC" (or Canadian Electric Code, "CEC", for Canada). Make sure the ground wire is connected to an electrical service ground.
6. Electrically bond the motor to the pool structure in accordance with the National Electrical Code) or Canadian Electric Code for Canada). Use a solid No 8 AWG or larger copper conductor.
7. Additionally, run a wire from the external bonding point to the pool bonding structure following the NEC/CEC.
8. Connect the pump to a permanent/dedicated circuit. Make sure no other lights or appliances are on the same circuit.



WARNING: make sure all electrical breakers and switches are turned off before wiring the motor

INSTALLATION

Proper ventilation is required for the pump to operate normally. Provide access for future service by leaving a clear area around the pump. Allow plenty of space above the pump to remove the lid and lint basket for cleaning.



CAUTION: Pump automatically restarts after high limit resets. Disconnect power to pump before any maintenance or service

This appliance must be installed by a trained pool professional service technician. When installing the appliance, ensure all parts are installed in the correct zone in accordance with the wiring rules.

A. Plan position of pump so that it will be:

1. Free of water flooding, such as in a sump, garden hollow, ditch or at bottom of bank with run off.
2. On a stable base so that:
 - a) The pump is not left suspended by its fittings, causing a leak or failure with loss of water.
 - b) Movement through vibration is restricted
 - c) No strain is put on attaching pipe or other expensive equipment
3. Accessible for maintenance and easily removed for service.
4. Breathing space. Pump should not be crowded which will prevent cooling airflow from fan. Overheating due to lack of cooling voids warranty.
5. Within reach of power point without extension/plugs liable to corrosion, shorting, etc.
6. At a minimum height of suction lift of water from pool surface to pump inlet.

B. For best pump performance keep suction pipe length as short as possible with minimum number of bends and use 2" high pressure PVC suction and return pipe. All equipment such as filters, heaters, chlorinators must have a minimum of 2" connections.

C. Secure the barrel unions supplied into the attaching pipe work, using approved priming fluid and solvent cement as normal practice, coating both surfaces. **NOTE:** Always wear protective gloves when handling and using glue and priming fluid. Ensure no excess adhesive runs into the union proper affecting the sealing or removal abilities. Allow 24 hours to dry before starting pump.

D. Install isolation valves before the pump section and after equipment, if the pump is below the water level of the pool.

E. For pump installations 19" above water level, it generally requires a foot valve at the pool or check valve in the suction line. Suction lines must be installed below water level until just in front of pump location and vertical riser used to reach pump inlet. Jacuzzi® Pools pumps are rated to a maximum head of 82 feet however refer to your pumps data plate for actual achievable pressure

F. All pumps will operate quieter and perform more efficiently if a straight length of 17" pipe is plumbed horizontally into the front of the pump.

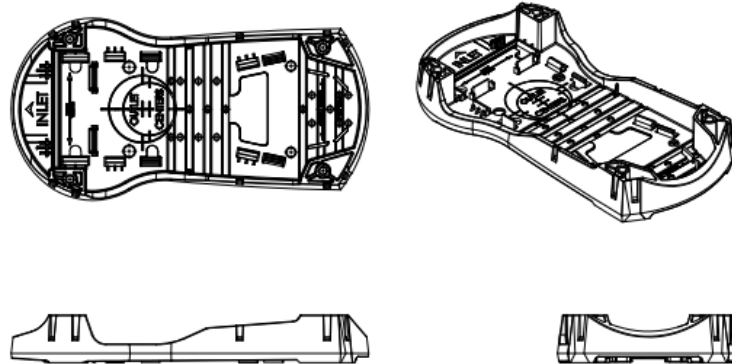
G. Water temperature not to exceed 113°F degrees

H. Pumps must be either

- supplied by an isolating transformer, or
- supplied through a residual current device (RCD) with a rated residual operating current not exceeding 30mA.

REPLACEMENT OF EXISTING PUMP

Jacuzzi® J-P Series pumps can easily replace several other pumps including Pentair®, WhisperFlo® and Sta-Rite Max E Pro®. To replace these pumps or their respected variable speed pumps use the Universal Base. The base increases the total height of the pump and the height of the suction side of the pump. (WhisperFlo® and Sta-Rite Max E Pro® are registered trademarks of Pentair® Water Pool and Spa, Inc) See Figure 2 below



(Figure 2) Universal Adjustable Base

INSTALLATION OF Jacuzzi® J-P Series AND UNIVERSAL BASE

1. The base mates up to the Jacuzzi® J-P Series Pump.
2. Select the correct side of the pump base for desired pump inlet elevation, without base the pump inlet centerline (fig 3a) is 8.465" inch. The base additionally allows for a 9.125" or a 10.75" inch pump inlet centerline to ground clearance, which allows easy retrofits from popular competitor pump products.
3. Align pump foot over mating features on the adjustable base after selecting correct base side (from step 2) which allows for closely matching existing pump installations inlet centerline.
4. Apply moderate down pressure to pump foot to clip pump into base clips, locking it in place.

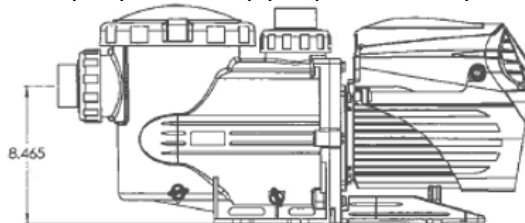


Figure 3A – pump shown without adjustable base

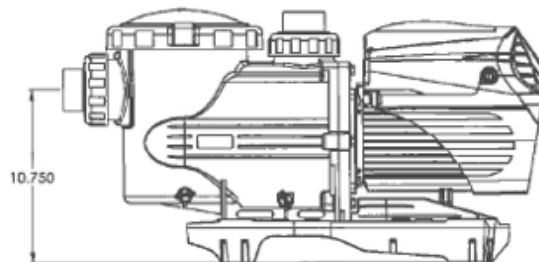


Figure 3B – pump shown with universal base to fit Max E Pro®

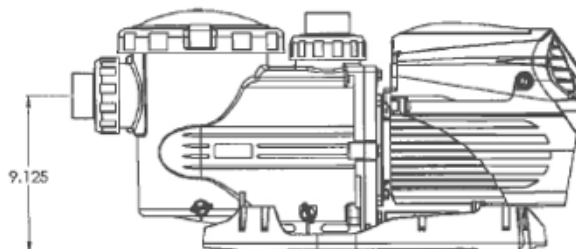


Figure 3C – pump shown with universal base to fit WhisperFlo®

(

OPERATION

1. Prime pump if hair and lint pot is dry as follows – Close off valve on suction line if present. Remove lint pot lid. Fill lint pot and chamber with water. Replace and secure lint pot lid and seal.
2. Open all valves, allowing water to flow through pump.
3. Switch on power to pump, motor to start.
4. If some flow of water does not establish within on half minute, switch off and prime pump again. If pump does not prime within 3 attempts, check all suction connections for sealing. If these are satisfactory, a check or foot valve is required to hold water for prime.
5. If the water flow through pump is always tedious to obtain at start-up after cleaning the lint basket, then an examination of the system to establish a reason and correct the cause is recommended. Eg. Check valve, air leaks, faulty seal, cracked lint pot lid, etc.
6. During normal operation, it is recommended that the pump be operated on Low for 12 hours per day. This will achieve the lowest operating costs with the lowest noise level. Should your pool have areas where water is not turning over when pump is on Low, increase the speed setting.

Notes: The appliance is not intended for use by person including young children or infirm persons with reduced physical, sensory or mental capabilities, or lack of experience or knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Please ensure that young children are supervised to ensure that they do not play with the pump.

To avoid a safety hazard, the supply cord if damaged, must only be replaced by Jacuzzi®, or its service agent or a suitably qualified person.


MAINTENANCE

WARNING:

DO NOT open the strainer pot if the pump fails to prime, or if the pump has been operating without water in the strainer pot. Pumps operated in these circumstances may experience a buildup of vapour pressure and may contain scalding hot water. Opening the pump may cause serious personal injury. In order to avoid the possibility of personal injury, make sure the suction and discharge valves are open and the strainer pot temperature is cool to touch, then open with extreme caution.

THIS FILTER OPERATES UNDER HIGH PRESSURE

When any part of the circulating system (e.g. lock ring, pump, filter, valves, etc) are serviced, air can enter the system and become pressurized. Pressurized air can cause the lid to blow off which can result in servera injury, death or property damage. To avoid this potential hazard, follow these instructions carefully.

 CAUTION: To prevent damage to the pump and filter and for proper operation of the system, clean the pump strainer and skimmer baskets regularly

THE PUMP STRAINER BASKET

The pump strainer basket, sometimes referred as the “hair and lint pot” is the unit in front of the volute. Inside the chamber is the basket which must be kept clean of leaves and debris at all times. View the basket through the “see through lid” to inspect for leaves.

Regardless of the length of time between filter cleaning, it is most important to visually inspect the hair and lint pot basket at least once a week. A dirty basket will reduce the efficiency of the filter and heater and also put an abnormal stress on the pump motor which could result in a costly repair bill.

PUMP STRAINER BASKET CLEANING PROCEDURE

1. Turn the power “OFF” at the house circuit breaker.
2. Turn “OFF” motor
3. Relieve pressure in the system by allowing the water to cool.
4. Gently tap the clamp in a counter clockwise direction to remove the clamp and lid from the pump.
5. Put the debris from the basket into the trash and rinse out the basket. If the basket is cracked, it should be replaced.
6. Replace the basket and fill the pump pot and volute up to the inlet port with water.
7. Clean the Lid, lid O-ring and sealing surface of the pump pot. Grease the O-ring with Teflon or silicon grease.
NEVER USE PETROLEUM BASED GREASE AS THEY DEGRADE THE O-RINGS
8. Reinstall the lid by placing the clamp and the lid on the pot. Make sure the lid O-ring is properly placed. Seat the clamp and lid then turn clockwise until handles are perpendicular to the inlet/outlet ports.
9. Turn the power “ON” at the house circuit breaker. Rest the pool timer clock to the correct time.
10. Open the High Flow manual air relief valve on top of the filter.
11. Start the pump, while standing clear from the filter.
12. Bleed air from the filter until a steady stream of water comes out. Close the high flow air relief valve.

WINTERIZING

1. If the air temperature drops below 35°F, the water in the pump can freeze and cause damage. Freeze damage is not warrantable.
2. To prevent freeze damage, follow the procedures listed below:
3. Shut off electrical power for the pump at the house circuit breaker.
4. Drain the water out of the pump case by removing the 2 thumb twist drain plugs from the pump body. Place the plugs in the pump basket to prevent losing them.
5. Cover the motor to protect it from severe rain, snow and ice

CARE OF THE ELECTRIC MOTOR

1. Protect the motor from excess heat by shading it from direct sun light. Any enclosure must be well ventilated to prevent overheating and provide ample cross ventilation
2. Protect the motor from excess dirt and debris. Protect it from splashing water and foreign matter. Do not store (or spill) pool chemicals near the motor. Avoid sweeping or stirring up dust near the motor while it is operating, if the motor is damaged by dirt it voids the motor warranty
3. Protect the motor from excess moisture, splashing pool water, lawn sprinklers, rain. If the motor has become wet, let it dry out before operating. Do not allow the pump to operate if it has been flooded. If the motor has been damaged by water it voids the motor warranty.

NOTE: Do not wrap the motor with plastic or other airtight materials. The motor may be covered during a storm or for winter storage, but never when operating or expecting operation.



WARNING:

DO NOT open the strainer pot if the pump fails to prime, or if the pump has been operating without water in the strainer pot. Pumps operated in these circumstances may experience a buildup of vapour pressure and may contain scalding hot water. Opening the pump may cause serious personal injury. In order to avoid the possibility of personal injury, make sure the suction and discharge valves are open and the strainer pot temperature is cool to touch, then open with extreme caution.

Maintenance Schedule: Your new product incorporates moving parts and withstands high velocity water with chemicals in it. Some of these parts will wear in the normal course of use and require regular checks and maintenance. Performing these checks and maintenance will identify parts that have worn and require repair/replacement before further serious damage is sustained. A small amount of regular care and attention to your pool equipment will help ensure long life and trouble free performance.

To protect against extremes of temperature, your unit is vented to allow expensive electronics to cool. Ants and some insects are often attracted to the warmer, dry environment inside the enclosure. We recommend that, with power turned off, you spray a surface insecticide on the surfaces surrounding the control to prevent ant and insect ingress. Repeat every three months or as necessary

Timing	Maintenance Check	Service action (if required)
Once a week or sooner	Check and empty hair and lint basket	Empty leaves and debris
Every 3 Months	Check Lid O ring and inlet/outlet O rings for leaks	Isolate Pump, turn power off, clean and grease O rings or replace if necessary
Every 3 Months	Check surroundings for leaves, debris and flooding Check for insects/ants	Remove debris and rectify if any flooding Spray a surface insecticide on the surfaces around the unit to prevent ant and insect ingress
Every 3 Months	Check for leaks from underneath pump	Call Service technician, repair or replace mechanical seal and motor bearings if necessary

Important note: Regular maintenance is important to ensure long life and trouble free performance of your pool equipment. If unable to perform the maintenance yourself, contact www.jacuzzi.com who will arrange a trained service technician to perform the maintenance for you.

Record your Equipment details here for quick reference:

Model No.: _____

Serial No.: _____

Inst date.: _____

Installer: _____

For warranty information please visit jacuzzi.com



INST390



www.jacuzzi.com