

# Jacuzzi®

## JVX160, JVX300 Pump

Installation and Operating Instructions



# IMPORTANT SAFETY INSTRUCTIONS

## READ AND FOLLOW ALL INSTRUCTIONS IN THIS MANUAL

**⚠ 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

**⚠ 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

The Jacuzzi® J VX Series Pool Pumps have a unique variable-speed AC motor combined with an energy efficient pump wet end. When installed and plumbed correctly, the Jacuzzi® J VX Series Pool Pump will significantly reduce operating costs, lower noise levels and reduce greenhouse emissions.

When you receive the 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.

The Jacuzzi® J VX Series Pool Pump range is available in a variety of models, with the following factory set speeds which offer approximate flow rates:

Model	Voltage	High	Medium	Low
Jacuzzi® J VX160	220 VAC	72 gpm 3075 RPM	49 gpm 2000 RPM	40 gpm 1325 RPM
	110 VAC	64 gpm 2850 RPM	49 gpm 2000 RPM	40 gpm 1325 RPM
Jacuzzi® J VX300	220 VAC	82 gpm 3400 RPM	54 gpm 2000 RPM	38 gpm 1150 RPM
	110 VAC	68 GPM 2850 RPM	54 gpm 2000 RPM	38 gpm 1150 RPM

(Flow rates based on a maximum speed at 26 feet total dynamic head).

Each speed can be easily changed to suit your pool size, filter, plumbing and application. The Jacuzzi® J VX Series Pool pump must be installed by a pool professional trained by Jacuzzi® to ensure it has been selected for the correct application, correctly installed and set up to suit your pool and its operation fully explained to you.

## FEATURES

- Continuous duty rated motor
- Timers and pump speed can be controlled using Bluetooth from compatible phones, tablets etc (J VX300 only)
- 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.



### WARNING

Jacuzzi® J VX Series Pool pumps include PCB's and microchips. It is necessary to turn power off completely for 10 seconds before turning pump back on again. Some brands of chlorinators may bleed a small amount of power into the Jacuzzi® J VX Series Pool pump even when the pump off mode is selected. If this occurs, the Jacuzzi® J VX Series Pool pump may not reset correctly and may not start until power is disconnected completely. In some cases, the manufacturer of these chlorinators may be able to remove or change a capacitor in the chlorinator which will completely disconnect power to the pump when turned off. If not, a suitable chlorinator may be required to be purchased. Jacuzzi® J-SS40 chlorinators completely disconnect power to the pump when the pump off mode is selected.

# SAFETY INSTRUCTIONS

## GENERAL

When you receive the 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.

## 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 (**220V**), see the following for recommendations.

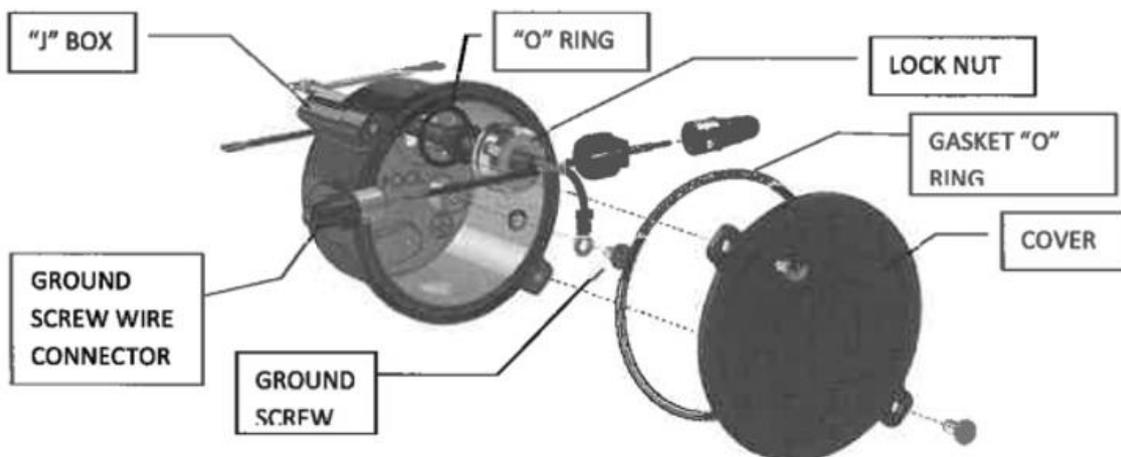
**USE MINIMUM OF 14 GAUGE FOR SUPPLY WIRE SIZE UP TO 150 FT (220 VOLT)**

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.



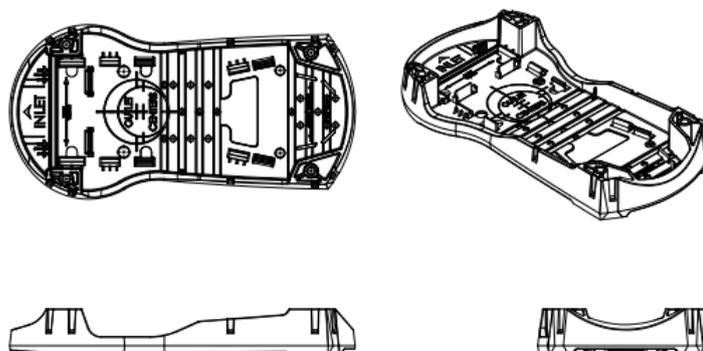
**⚠ CAUTION:** Pump automatically restarts after high limit resets. Disconnect power to pump before any maintenance or service

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. Do not drip glue on the pump body as it will mark it. 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® J VX Series Pool 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

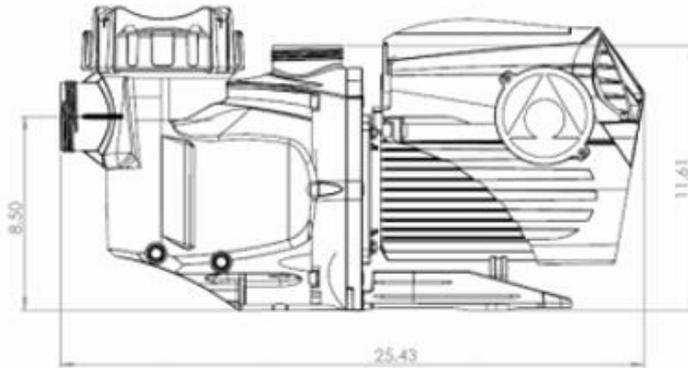
Jacuzzi® J VX Series Pool pumps can easily replace several other pumps including Pentair®, WhisperFlo® and Sta-Rite Max E Pro®. To replace these pumps or their respected variable speed pumps use the Universal Base. The base increases the total height of the pump and the height of the suction side of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



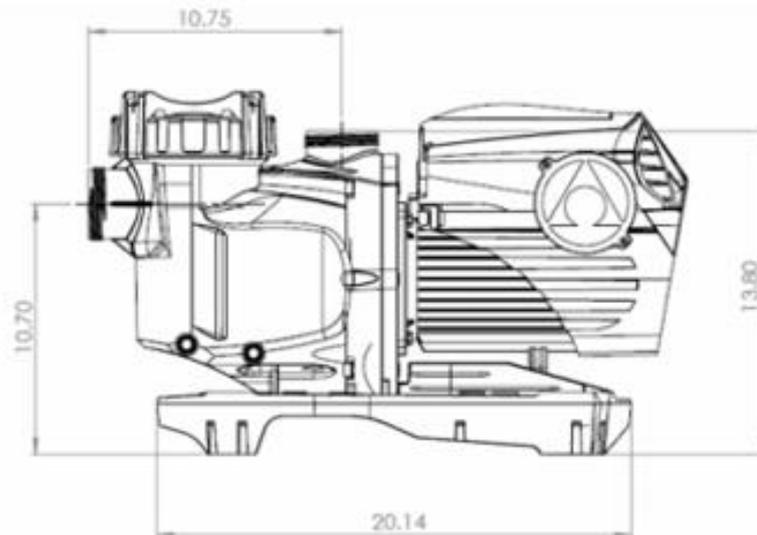
(Figure 2) Universal Adjustable Base

## INSTALLATION OF Jacuzzi® J VX Series Pool pump AND UNIVERSAL BASE

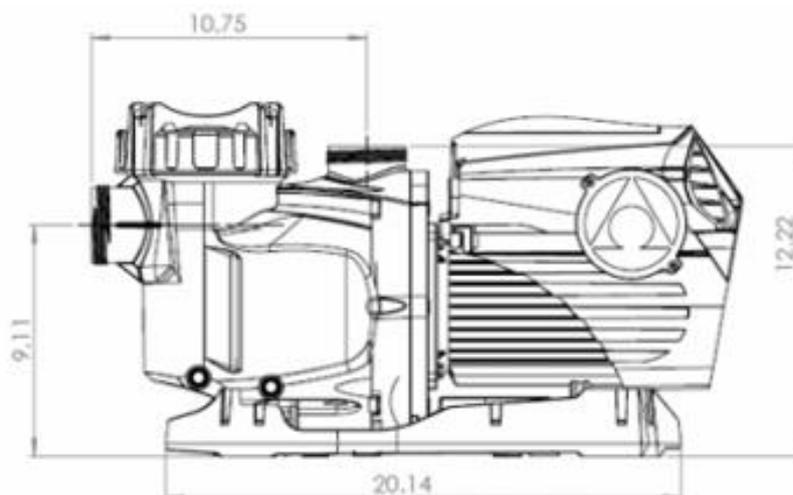
1. The base mates up to the Jacuzzi® J VX Series Pool pump.
2. Select the correct side of the pump base for desired pump inlet elevation, without base the pump inlet centerline (fig 3a) is 8.465"inch. The base additionally allows for a 9.125" or a 10.75" inch pump inlet centerline to ground clearance, 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.



Pump shown without adjustable foot



Pump shown with universal base to fit Max E Pro®



Pump shown with universal base to fit WhisperFlo®

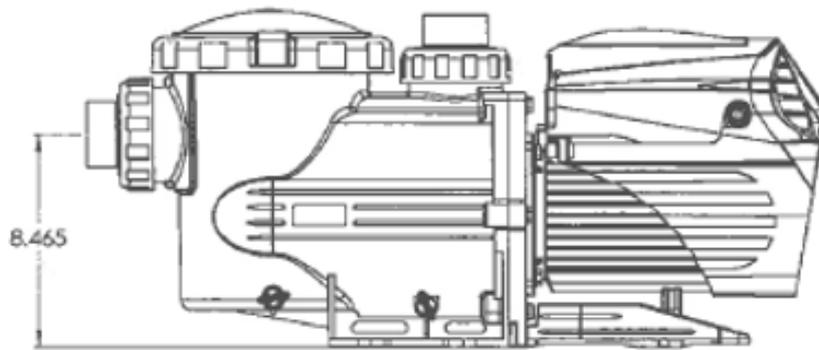


Figure 3A – pump shown without adjustable base

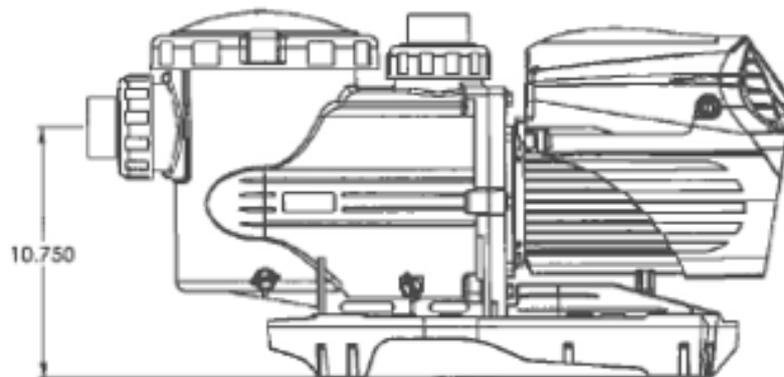


Figure 3B – pump shown with universal base to fit Max E Pro®

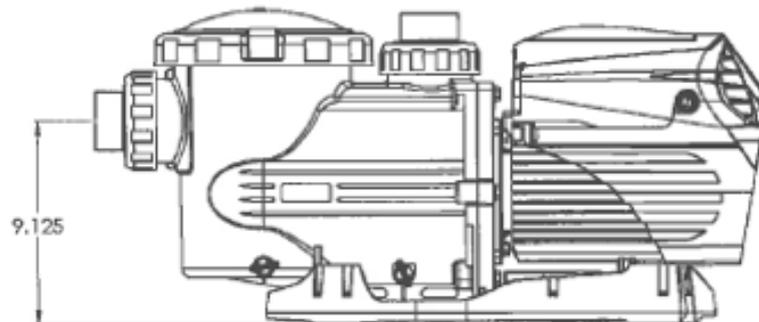


Figure 3C – pump shown with universal base to fit WhisperFlo®

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## 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. For initial priming of the pump, press the “Menu” button and “FAST” will be displayed on the screen. The pump will then run at “overdrive” speed and the display will show 2 rotating circles. The pump will then prime 30% faster than at the conventional maximum speed. During this priming period the pump will automatically limit its maximum speed according to the systems total dynamic head and power consumption. Once the pump has primed (or if it fails to prime within 5 minutes) the speed will drop to the speed that it last ran in “Manual” mode.
5. 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.
6. 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.

7. The Jacuzzi® J VX Series Pool pump has 3 factory pre-set speed settings – Low, Medium and High. High should be used when backwashing, manually vacuuming the pool or operating spa jets or some water features such as waterfalls. Medium speed can be used for gentle spa jet action, when suction cleaner is connected to the skimmer or filtration for the pool. Low is the recommended setting for everyday filtration of your pool when a cleaner is not connected.
8. The Jacuzzi® J VX Series Pool pump will automatically start on PRIME speed for the first 5 minutes to assist in priming and substantially fill the hair and lint pot with water. After 5 minutes the pump will revert to the last speed it was set at before it was turned off. (See “Operation of Control Panel” section below on how to adjust the Prime speed and prime time)
9. 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.

#### **Control using Bluetooth Compatible Phones**

J VX300 pumps can be controlled from a Bluetooth compatible phone or tablet.

To control your pump you need to download the “Jacuzzi Pump” App from the Apple App Store or the Google Play store.

Once the App is downloaded you can press the “+” button on the APP and it will ask you to enter your unique pump Bluetooth Connection Code

To find the Bluetooth Connection Code on your pump, turn power to the pump on, press the MENU button on your pump until CODE is displayed. Then when you press ENTER the 4 character Bluetooth connection code will be displayed

#### **Hours of Operation**

On low speed your Jacuzzi® J VX Series Pool pump makes very little noise and is unlikely to be intrusive to you or your Neighbor. Generally, your pool filter pump should operate for a minimum of 12 hours a day to provide sufficient skimming (thereby reducing the amount of debris that falls to the bottom of the pool) and to allow the chlorinator to provide sufficient chlorine to sanitize your pool.

**Greater energy savings occur when operating the pump for longer periods at the lowest speed instead of operating for shorter periods at a higher speed.**

## SELECTION OF APPROPRIATE SPEEDS

### General Rules:

- The total volume of water in your pool should be turned over at least once a day.
- If operating for longer periods of time, you may be able to turn the output of your salt chlorinator to a lower level. Check your chlorine level frequently to ensure you do not over or under chlorinate your swimming pool.
- **Low Speed (JVX160-1325RPM, JVX300-1150rpm)** is factory pre-set and is the recommended setting for your daily filtration flow rate – enough to gently turn the water over once per day and circulate the water completely around your pool.
- **Medium Speed (2000 RPM Both Models)** is generally set up as your special purpose flow rate. For example, an In-floor cleaning system will require higher pressures and flow rates to operate and medium speed can be set up to operate the In-floor cleaning system. Other special purpose flow rates may include but are not limited to: operating spa jets, operating water falls or water features, operating a suction pool cleaner.
- **High Speed (JVX160-3075RPM, JVX300-3400 RPM)** is generally set up to backwash your sand filter. As a rule of thumb, this speed should be set so that the gauge on your filter is approximately 10 PSI to 15 PSI in pressure but this will depend on the size of your filter, and the size and length of the backwash pipe line.
- **Overdrive** mode can be used to drive in floor cleaning systems, obtain extra pressure when spa jets are selected or for additional vacuum suction when cleaning the pool.

In warmer weather, or when the pool is used a lot, your pump should operate for 12 hours a day or more. Check your chlorine levels and visually inspect your water to ensure that (a) you have adequate chlorine and (b) the water in your pool looks clear and inviting. If you have any doubts, take a sample of water to your local pool shop for a water analysis.

### Examples of Speed Selection during operation and use of your Jacuzzi® JVX150 and JVX250 Pool Pumps:

<i>Function</i>	<i>Speed</i>
Vacuumping Pool or Spa	High Speed
Operating Spa Jets	High Speed
Operating Waterfall or Water Feature	Medium Speed or High Speed, depending on effect required
Cleaning up pool with Cloudy Water	Up to 24 hours on High Speed
General Filtration	Low Speed (8 hours in winter, 8 to 12 hours in summer)

### Some Tips:

The Jacuzzi® JVX160 Pool Pump will provide around 3,900 to 4,700 Gallons per hour on high speed, depending on pipework, valves, filter size and other equipment installed on your pool. On low speed the factory preset flow rate is approximately 1,980 gallons per hour. **Low speed will use approximately 10% of the power consumption** that high speed will use. Therefore, operating the pump 8 hours per day will provide a 15,000 gallon pool one complete turn over.

The Jacuzzi® JVX300 Pool Pump will provide around 9,510 gallons per hour on high speed, depending on pipe work and the Factory preset low speed at 1150 RPM will provide around 3,170 gallons per hour. This is sufficient to turn a 24,000 gallon pool over once per day.

As a guide, low speed should achieve a visible skimming of the surface of the pool through your skimmer box. However, should your pool water develop cloudiness or your pool surface exhibit algae growth you may need to increase the low speed of your pump to ensure adequate circulation of water and chlorine to all parts of your pool

It is important to check your chlorine levels, pH and other parameters to ensure your water quality is correct before adjusting the speed of your pump. We recommend these checks are carried out by your professional pool shop or service technician.

## OPERATION OF CONTROL PANEL

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The Jacuzzi® J VX160 and J VX300 Pool Pumps incorporate an LCD backlit screen with the following features:  
In built time clock:

- Programmable for up to four timer periods each day
- Timer periods can be disused and 1, 2, 3, or 4 periods selected
- Different speed (low, medium, high) for each timer period
- Displays actual RPM of motor and low, medium and high speed can be adjusted to suit your pool
- Time clock and timer periods can be disabled if connected to an external time clock
- Enables the priming (start-up) speed to be adjustable and the time of the start-up speed to be changed from 2 minutes up to 120 minutes

Jacuzzi® J VX160 and J VX300 Control Panel



## OPERATION OF CONTROL PANEL (CONT...)

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### Setting pump to operate independently of external Compliant Chlorinator or Control System

1. Toggle Menu until "CONF" is displayed on the LCD screen
2. Press and HOLD "enter" for 3 seconds. "TMRS" will appear.
3. Press "enter"
4. Press UP or Down buttons to turn "TMRS ON"
5. Press "enter" to accept
6. Press  "auto" to return to main menu.

### Changing Low, Med and High Speed Settings

1. Select the Speed Button to be adjusted, Low, Medium or High. Respective LED will light up.
2. Alter the speed in increments of 25 RPM using the up and down arrows until the desired speed is displayed on the screen. Respective "Speed 1", Speed 2" or "Speed 3", will flash while editing. "Speed 3" can be set to "Overdrive" mode if desired by using the up arrow to raise the speed above the normal maximum speed. (In overdrive mode, the actual RPM isn't displayed, instead a rotating symbol is displayed)
3. The new speed will automatically save after 2 seconds. Flashing will stop to signal save.

### Setting filtration timer periods

1. Press Menu to go to PRIM setting.
2. Prime period is defaulted to 5 minutes and high speed. We recommend if your pump is installed at or below water level, you change the PRIM to 2 minutes. Press "enter" and then Up or Down arrows to change the prime speed. Press "enter" to accept. Priming period will now be displayed.
3. Use the Up or Down arrow to change the Priming period. Press "enter" to accept.
4. Press Menu to go to TMR "timer settings" and press "enter" to change.
5. Timer 1 is factory set to start at 8 am. Use up or down arrows to change. Press High, Medium, or Low to select the speed of the pump during Timer 1. On the LCD Screen High is represented by speed "1", medium by speed "2", and Low by speed "3".
6. Press Enter to move to the stop or end time of Timer 1. Use the up and down arrows to change the end of Timer 1.
7. Timer 2 will now appear on the LCD Screen. Repeat instructions 4. to 6. Above.
8. Timer 3 will now appear but is factory pre-set to OFF. Moving any timer to midnight will turn that Timer period off. Use the up and down arrows to activate the time and repeat process 4 and 5 above.
9. Timer 4 is also factory pre-set to "off" but can be activated by using the up and down arrows.
10. Remember to select the speed you wish to operate during each timer period by pressing the High, Medium or Low buttons while still in the Timer Start program.

### Using the inbuilt pump timers with a non-compliant chlorinator or dosing unit.

1. We do not recommend the use of the pump timers when a non-compliant chlorinator or chemical Dozer is supplied water flow by the Jacuzzi® JVXP150 or JVX250 Pool Pump.
2. In this case, the pump operating hours should be controlled by the chlorinator time clock and the pump plugged into the chlorinator. This is a safety measure provided for by most chlorinator manufacturers.
3. **However, it is important to deactivate the inbuilt pump timers.**
4. Have Pump in "MANUAL OFF"
5. Toggle Menu until "CONF" is displayed on the LCD screen
6. Press and HOLD "enter" for 3 seconds
7. Toggle Menu until "TMR" appears.
8. Press UP or Down buttons to turn "TMR OFF"
9. Press "ENTER" to accept
10. Press  "AUTO" to return to main menu.
11. When cycling through the Menu button TMR will no longer appear
12. You will no longer be able to automatically have the speed of the pump changed during different times of the day.
13. However, if you wish for a period where the pump operates at a high speed, for example to circulate the water vigorously for a part of the daily filtration, you can use the PRIMING setting to do so.

Using the PRIMING program to circulate the water at a higher flow rate for part of the daily filtration cycle.

1. Have PUMP in MANUAL OFF
2. Press MENU BUTTON TWICE until PRIM appears on the screen
3. Press ENTER To show current Speed, use UP DOWN buttons to Adjust speed. Adjusts in 25 RPM increments. Once Speed is selected Press ENTER. (Similarly to HIGH Speed, PRIME speed can be set to overdrive mode by using the Up button to increase the speed above normal high speed) We recommend high speeds for Priming
4. PRIMING TIME will now appear on the screen. Prime period is defaulted to 5 minutes and high speed. Use the up and down arrows to change the Priming period From 2 minutes up to 120 minutes. Press ENTER to accept, Screen will Flash
5. Press "Auto" to exit the programming.

### Fault Codes

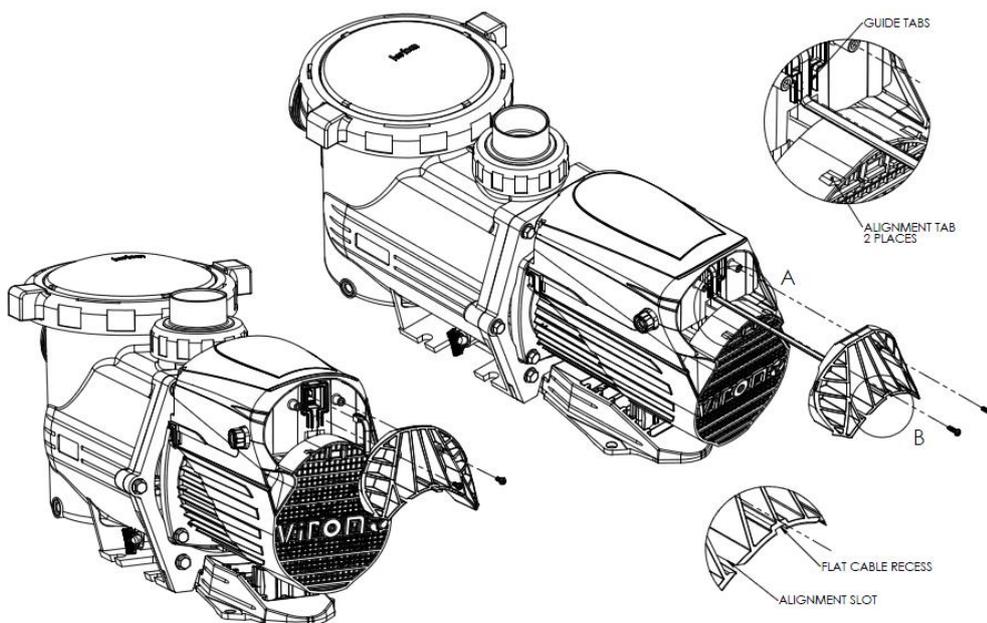
#### The Jacuzzi® JVXI60 and JVX300 Pool Pump

Fault Code (displayed on screen)	Meaning
HI T	Over Temperature
HI A	Over Current
Lo V*	Under Input Voltage
BSUC	Motor is Stuck

\*Please note: It is normal for the "Lo V" fault code to display briefly on start up. Pump will retain all internal memory/timer/clock settings for up to 3 months if power is interrupted to the pump

Data cable connector:

Remove 2 Philips head screws from rear of pump and the data port cover is removed by hand. Plug RJ12 6 wire flat cable purchased from Jacuzzi® into rear of pump and reassemble. To achieve a proper seal, press the flat cable under the guide tabs (detailed view A). Slide data port cover back on by aligning the tabs with the slots and the flat cable with the recess (detailed view B).



## SPEED SELECTION EXAMPLES FOR JVXI60 OR JVX300

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Function	Speed
Vacuumping Pool or Spa	Medium Speed (high speed may collapse vacuum hose)
Operating Spa Jets	Medium or High Speed
Operating Waterfall or Water Feature	Medium Speed or High Speed, depending on effect required
Cleaning up pool with Cloudy Water	Up to 24 hours on High Speed
General Filtration	Low Speed (8 hours in winter, 8 to 12 hours in summer)
Single Pump In-floor Cleaning System	Medium Speed for 3 to 3 hours per day and low speed for 5 or 6 hours per day
Compatible Pressure Cleaner	2 or 3 hours per day on high speed, 5 or 6 hours per day on low speed

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### USE WITH SUCTION CLEANERS

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When connecting a suction cleaner to the Jacuzzi® JVXI60 or JVX300 Pool Pump, it essential that full prime is achieved on the pump prior to connecting the cleaner hose. During operation at low speeds, the pump may only operate with partial prime in the hair and lint pot chamber.

To operate a suction cleaner on your pump;

1. Choose the speed button (low, medium or high) on which the pump will operate when the suction cleaner is connected.
2. Allow pump to operate for a minimum of 2 minutes to allow a full prime to be achieved.
3. Connect cleaner plate and hose to skimmer/wall suction only after all air has been purged from the top of the hair and lint pot of your Jacuzzi® JVXI60 or JVX300 Pool Pump.
4. Adjust speed (with increase or decrease buttons) at which the cleaner will travel to all areas of the pool. Factory set medium speed will usually operate all suction cleaner types in most pools. If using the Low Speed setting, it will usually be necessary to increase the low speed to ensure the suction cleaner operates reliably.
5. When cleaner is no longer required, disconnect and remove hose/cleaner plate from system. Select the lowest filtration speed that keeps your pool clean.
6. If replacing or selecting a new cleaner, Jacuzzi® recommend Robotic Range of Cleaners which operate independently from the filter pump and allows the pump to operate at a speed which offers the maximum energy (and cost) savings.

## Use with Jacuzzi® J-HN Series Gas Heaters

Gas heaters (and electric heat pumps) generally rely on a water pressure switch to activate the heater control circuit. When the Jacuzzi® J VX Series Pool pump operates on low speed the water pressure produced is generally insufficient to activate the pressure switch and control circuit within the heater.

If using a compatible Jacuzzi® J-HN Series Gas Heater you can automatically increase the speed of your Jacuzzi® J VX160 or J VX300 Pool Pump to ensure the water pressure switch is activated and the heater obtains enough water flow to operate correctly.

A RJ12 (6 wire flat cable) specifically wired and obtained from Jacuzzi® will connect your pump and heater. Refer to Heater Instruction Manual for data cable connection details.



### J VX Series Pool pump when connected to a Jacuzzi® J-HN250C or J-HN400C Heater via RJ12 Cable

Heater Status	Jacuzzi® J VXPump Response
When heater is “off”	Runs at default speed set
When “on” but not lit	Runs at a Minimum of Medium speed. The user can use the buttons to select Medium or High (Low speed button has no effect). The “start-up period” is cancelled.
When Heater first lights	Runs at High speed. The user cannot change the pumps speed.
When heater goes out	Runs at default speed set or Medium speed if heater power is on.

## 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 severe 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

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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

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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

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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](http://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](http://jacuzzi.com)



**INST448**



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