WARNING

FOR YOUR SAFETY - This product must be installed and serviced by a contractor who is licensed and qualified in pool equipment by the jurisdiction in which the product will be installed where such state or local requirements exist. In the event no such state or local requirement exists, the maintainer must be a professional with sufficient experience in pool equipment installation and maintenance so that all of the instructions in this manual can be followed exactly. Improper installation and/or operation can create dangerous electrical hazards, which can cause high voltages to run through the electrical system. Before installing this product, read and follow all warning notices and instructions that accompany this product. Failure to follow warning notices and instructions may result in property damage, personal injury, or death. Improper installation and/or operation will void the warranty.

ATTENTION INSTALLER: This manual contains important information about the installation, operation and safe use of this product. This information should be given to the owner/operator of this equipment.
# Table of Contents

Section 1. Important Safety Instructions .......... 4
  1.1 Safety Instructions .......................... 4
  1.2 Pool Pump Suction Entrapment Prevention Guidelines.......... 6
Section 2. General Description.......................... 8
  2.1 Introduction ..................................... 8
  2.2 Description ...................................... 8
Section 3. Installation ........................................ 8
  3.1 Plumbing......................................... 8
  3.1.1 Preparation ...................................... 8
  3.1.2 Pump Location ................................ 8
  3.1.3 Replacement of Existing Pump ....... 8
  3.1.4 Pipe Sizing ...................................... 9
  3.2 Electrical Installation ...................... 10
  3.2.1 Voltage Checks................................ 10
  3.2.2 Bonding and Grounding .................. 10
  3.2.3 Electrical Wiring ............................. 11
  3.3 Pressure Testing ................................ 11
Section 4. Operation .......................................... 12
  4.1 Start-up............................................ 12
Section 5. Service and Maintenance .................... 13
  5.1 Routine Maintenance ...................... 13
  5.2 Winterizing the Pump ..................... 13
Section 6. Troubleshooting and Repair ................. 14
  6.1 Troubleshooting .............................. 14
  6.2 Service Technician Maintenance ... 15
  6.2.1 Blocked Impeller............................. 15
  6.2.2 Impeller Removal ......................... 15
  6.2.3 Impeller Replacement .................... 16
  6.2.4 Mechanical Seal Replacement ...... 17
  6.2.5 Motor Replacement......................... 18
Section 7. Product Specifications and Technical Data ............. 19
  7.1 Replacement Parts List ................... 19
  7.2 Exploded View ................................. 20
  7.3 FHPM Pump Curves......................... 21
  7.4 Physical and Operational Specifications ................. 22
  7.5 Replacement Motor Guide .............. 23

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### EQUIPMENT INFORMATION RECORD

DATE OF INSTALLATION ____________________________

INSTALLER INFORMATION ____________________________

INITIAL PRESSURE GAUGE READING (WITH CLEAN FILTER) ____________________________

PUMP MODEL ____________________________ HORSEPOWER ____________________________

NOTES:

______________________________________________________________________________

______________________________________________________________________________

______________________________________________________________________________
Section 1. Important Safety Instructions

READ AND FOLLOW ALL INSTRUCTIONS

1.1 Safety Instructions

All electrical work must be performed by a licensed electrician and conform to all national, state, and local codes. When installing and using this electrical equipment, basic safety precautions should always be followed, including the following:

⚠️ WARNING

RISK OF SUCTION ENTRAPMENT HAZARD, WHICH, IF NOT AVOIDED, CAN RESULT IN SERIOUS INJURY AND/OR DEATH. Do not block pump suction, as this can cause severe injury and/or death. Do not use this pump for wading pools, shallow pools, or spas containing bottom drains, unless the pump is connected to at least two (2) functioning suction outlets. Suction outlet (drain) covers must be certified to the latest published version of ANSI/ASME A112.19.8.

⚠️ WARNING

To reduce the risk of injury, do not permit children to use this product.

⚠️ WARNING

To reduce the risk of property damage and/or injury, do not attempt to change the backwash (multiport, slide, or full flow) valve position with the pump running.

⚠️ WARNING

Jandy Pumps are powered by a high voltage electric motor and must be installed by a licensed or certified electrician or a qualified swimming pool service technician.

⚠️ WARNING

Due to the potential risk of fire, electric shock, or injuries to persons, Jandy Pumps must be installed in accordance with the National Electrical Code (NEC), all local electrical and safety codes, and the Occupational Safety and Health Act (OSHA). Copies of the NEC may be ordered from the National Fire Protection Association online at www.nfpa.org or call 617-770-3000, or contact your local government inspection agency.

⚠️ WARNING

Incorrectly installed equipment may fail, causing severe injury and/or property damage.

⚠️ WARNING

• Do not connect the system to an unregulated city water system or other external source of pressurized water producing pressures greater than 35 PSI.
• Trapped air in the system can cause the pump and/or filter lid to be blown off. This can result in death, serious personal injury, and/or property damage. Be sure all air is out of the system before operating.
**WARNING**

To minimize the risk of severe injury or death, the filter and/or pump should not be subjected to the piping system pressurization test.

Local codes may require the pool piping system to be subjected to a pressure test. These requirements are generally not intended to apply to the pool equipment, such as filters or pumps.

Jandy pool equipment is pressure tested at the factory.

However, if the WARNING cannot be followed and pressure testing of the piping system must include the filter and/or pump, BE SURE TO COMPLY WITH THE FOLLOWING SAFETY INSTRUCTIONS:

- Check all clamps, bolts, lids, lock rings, and system accessories to make sure they are properly installed and secured before testing.

- **RELEASE ALL AIR** in the system before testing.

- Water pressure for test must NOT EXCEED 35 PSI.

- Water temperature for test must NOT EXCEED 100°F (38°C).

- Limit test to 24 hours. After test, visually check the system to make sure it is ready for operation.

**Notice:** These parameters apply to Jandy equipment only. For non-Jandy equipment, consult the equipment manufacturer.

**WARNING**

Chemical spills and fumes can weaken pool/spa equipment. Corrosion can cause filters and other equipment to fail, resulting in severe personal injury or property damage. Do not store pool chemicals near your equipment.

**CAUTION**

Do not start pump dry! Running the pump dry for any length of time will cause severe damage and will void the warranty.

**CAUTION**

This pump is for use with permanently installed pools and may also be used with hot tubs and spas, if so marked. Do not use with storable pools. 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.

**CAUTION**

Do not install within an outdoor enclosure or beneath the skirt of a hot tub or portable spa. The pump requires adequate ventilation to maintain air temperature at less than the maximum ambient temperature rating listed on the motor rating plate.

**SAVE THESE INSTRUCTIONS**
1.2 Pool Pump Suction Entrapment Prevention Guidelines

⚠️ WARNING

SUCTION HAZARD. Can cause serious injury or death. Do not use this pump for wading pools, shallow pools, or spas containing bottom drains, unless the pump is connected to at least two (2) functioning suction outlets.

⚠️ WARNING

Pump suction is hazardous and can trap and drown or disembowel bathers. Do not use or operate swimming pools, spas, or hot tubs if a suction outlet cover is missing, broken, or loose. The following guidelines provide information for pump installation that minimizes the risk of injury to users of pools, spas, and hot tubs:

**Entrapment Protection** - The pump suction system must provide protection against the hazards of suction entrapment.

**Suction Outlet Covers** - All suction outlets must have correctly installed, screw-fastened covers in place. All suction outlet (drain) covers must be maintained. Drain covers must be listed/certified to the latest version of ANSI/ASME A112.19.8. They must be replaced if cracked, broken, or missing.

**Number of Suction Outlets Per Pump** - Provide at least two (2) main drains, with covers, as suction outlets for each circulating pump suction line. The centers of the main drains (suction outlets) on any one (1) suction line must be at least 3 feet apart, center to center. See Figure 1 on page 7. For additional details and guidelines, refer to ANSI/APSP 7, the standard for *Suction Entrapment Avoidance in Swimming Pools, Wading Pools, Spas, Hot Tubs, and Catch Basins*.

The system **must** be built to include at least two (2) suction outlets (drains) connected to the pump whenever the pump is running. However, if two (2) main drains run into a single suction line, the single suction line may be equipped with a valve that will shut off both main drains from the pump. The system shall be constructed such that it shall not allow for separate or independent shutoff or isolation of each drain. See Figure 1 on page 7.

More than one (1) pump can be connected to a single suction line as long as the requirements above are met.

**Water Velocity** - The maximum water velocity through the suction fitting or cover for any suction outlet must be 1.5 feet per second, unless the outlet complies with the latest published version of ANSI/ASME A112.19.8, the standard for *Suction Fittings For Use in Swimming Pools, Wading Pools, Spas, and Hot Tubs*. In any case, do not exceed the suction fitting’s maximum designed flow rate.

If 100% of the pump’s flow comes from the main drain system, the maximum water velocity in the pump suction hydraulic system must be 6 feet per second or less, even if one (1) main drain (suction outlet) is completely blocked. The flow through the remaining main drain(s) must comply with the latest published version of ANSI/ASME A112.19.8, the standard for *Suction Fittings For Use in Swimming Pools, Wading Pools, Spas, and Hot Tubs*.

**Testing and Certification** - Suction outlet covers must have been tested by a nationally recognized testing laboratory and found to comply with the latest published version of ANSI/ASME A112.19.8, the standard for *Suction Fittings For Use in Swimming Pools, Wading Pools, Spas, and Hot Tubs*.

**Fittings** - Fittings restrict flow; for best efficiency use the fewest possible fittings (but at least two (2) suction outlets).

Avoid fittings that could cause an air trap.

Pool cleaner suction fittings must conform to applicable International Association of Plumbing and Mechanical Officials (IAPMO) standards.
Figure 1. Number of Suction Outlets Per Pump

- At Least 3 Feet
- No valves between Tee and Main Drains
- Valves OK between pump and Tee
- Listed/certified to the latest published version of ANSI/ASME A112.19.8 Anti-entrapment Cover/Grate or Suction Fitting, screw-fastened to Main Drain Sump
Section 2. General Description

2.1 Introduction

This manual contains information for the proper installation, operation, and maintenance of Jandy FloPro (FHP) Series Pumps, Model FHPM. Procedures in this manual must be followed exactly. To obtain additional copies of this manual, contact Jandy Customer Service at 1.800.822.7933. For address information, see the back cover of this manual.

2.2 Description

Jandy FHP Pumps are designed to meet the needs of today’s more hydraulically demanding pool equipment. The pump housing, backplate, diffuser, impeller, and hair-and-lint pot (pump debris filter basket) are all made from high quality thermoplastic materials. These materials were chosen for their strength and corrosion resistance.

The pump is driven by an electric motor directly attached to the pump impeller. As the electric motor turns, it causes the impeller to turn, which forces water to flow through the pump. The water flows through the pump inlet and then into the filter basket. The basket assembly pre-strains/traps large particles. The water then enters the center of the pump housing, flows through the impeller into the diffuser, and then flows out the pump discharge port.

Section 3. Installation

3.1 Plumbing

3.1.1 Preparation

1. Upon receipt of 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.

2. Inspect the contents of the carton and verify that all parts are included. See Section 7.1, Replacement Parts List.

3.1.2 Pump Location

1. Zodiac Pool Systems, Inc. recommends installing the pump within 1 foot above water level. The pump should not be elevated more than a few feet above the water level of the pool. A check valve is recommended on the suction line to the pump.

NOTE Better self-priming will be achieved if the pump is installed as close as possible to the water level of the pool.

2. If the pump is located below water level, isolation valves must be installed on both the suction and return lines to prevent the back flow of pool water during any routine or required servicing.

NOTE Some Safety Vacuum Release System (SVRS) devices are not compatible with installation of check valves. If the pool has an SVRS device, be sure to confirm that it will continue to safely operate when any check valves are installed.

3. Zodiac Pool Systems, Inc. recommends that the pump and other circulation equipment be located more than 5 feet from the water. Choose a location that will minimize turns in the piping.

NOTE In Canada, the pump must be located a minimum of 3 meters (approximately 10 feet) from the water (CSA C22.1).

4. The pump must be placed on a solid foundation that will not vibrate. To further reduce the possibility of vibration noise, bolt the pump to the foundation, or place it on a rubber mat.

NOTE Zodiac Pool Systems, Inc. recommends bolting the pump directly to the foundation.

5. The pump foundation must have adequate drainage to prevent the motor from getting wet. Protect the pump from the rain and sun.

6. Proper ventilation is required for the pump to operate normally. All motors generate heat that must be removed by providing proper ventilation.

7. 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 basket for cleaning.

8. If the equipment is under cover, provide adequate lighting.
3.1.3 Replacement of Existing Pump

Jandy FHP pumps can easily replace several other pumps: the Hayward® Super Pump®, Pentair® SuperFlo®, Pentair® WhisperFlo®, Jandy PlusHP (PHP), and Jandy MaxHP (MHP).

To replace the Pentair® WhisperFlo®, Jandy PHP, or Jandy MHP, use the FHP’s adjustable base. The FHP base (and its spacers) increase the total height of the pump and the height of the suction side of the pump. See Table 1.

Table 1. FHP Dimensions

<table>
<thead>
<tr>
<th>Base Configuration</th>
<th>Suction Side Height</th>
<th>Pump Height</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pump without Base</td>
<td>7 ¾&quot;</td>
<td>12¾&quot;</td>
</tr>
<tr>
<td>Pump with Base</td>
<td>8⅞&quot;</td>
<td>13⅞&quot;</td>
</tr>
<tr>
<td>Pump with Base and Spacers</td>
<td>9⅛&quot;</td>
<td>14⅛&quot;</td>
</tr>
</tbody>
</table>

3.1.3.1 Hayward® Super Pump® and Pentair® SuperFlo®

The Jandy FHP can replace a Hayward® Super Pump® or a Pentair® SuperFlo® without using the FHP base. See Figure 2.

3.1.3.2 Jandy PlusHP (PHP) and Jandy MaxHP (MHP)

To replace a Jandy PHP or Jandy MHP pump with a Jandy FHP, use the FHP base as shown in Figure 3.

3.1.3.3 Pentair® WhisperFlo® Pump

To replace a Pentair® WhisperFlo® pump with a Jandy FHP, place the FHP base with spacers on the equipment pad and place the FHP on the base, as shown in Figure 6.

1. Using a hand cutter tool, cut the plastic bars connecting the top and bottom sets of spacers, as shown in Figure 4.
2. Push the two (2) top spacers and two (2) bottom spacers out of the base.
3. Align the pins in the four (4) spacers with the holes in the base and snap the spacers into place, as shown in Figure 5.

Figure 2. Place FHP Directly on Equipment Pad

Figure 3. Place FHP with Base on Equipment Pad

Figure 4. Cut Sets of Spacers Out of Base

Figure 5. Snap Spacers into Place

Figure 6. Place FHP with Base and Spacers on Equipment Pad

Hayward® and Super Pump® are registered trademarks of Hayward Industries, Inc.
Pentair is a registered trademark of Pentair, Inc.
SuperFlo® and WhisperFlo® are registered trademarks of Pentair Water Pool and Spa, Inc.
4. Place the FHP on the base assembly. See Figure 6.

### 3.1.4 Pipe Sizing

#### 3.1.3.1 Suction Pipe

When the pump is located up to 50 feet from the pool, the recommended Schedule 40 minimum pipe size for the suction side of the pump is 1½" for .75 HP and 2" for 1 to 2 HP. For 2.5 HP pumps, the recommended pipe size is 2½".

#### 3.1.3.2 Discharge Pipe

When the pump is located up to 50 feet from the pool, the recommended Schedule 40 minimum pipe size for the discharge side of the pump is 1½" for .75 HP and 2" for 1 to 2 HP. For 2.5 HP pumps, the recommended pipe size is 2½".

**NOTE** All pipe sizes (Schedule 40) are able to withstand the pressures the pump will deliver, but not necessarily the flow. If the pipe is too small for the pump, or if the pump is elevated above water, the maximum gallons per minute (GPM) may not be delivered. If this happens, the pump will develop an air pocket (cavitation) that will make noise, and the life of the pump may be shortened.

#### 3.1.3.3 Installation Recommendations

1. If the pump is located below water level, isolation valves must be installed on both sides of the pump to prevent the back flow of pool water during any routine or required servicing.

2. To help prevent difficulty in priming, install the suction pipe without high points, which can trap air. (High points are inverted ‘U’s above the inlet of a pump. In plumbing, they are commonly referred to as airlocks.) For installations of equipment up to 100 feet from the water, refer to the pipe sizing chart in Table 2. For installations of equipment more than 100 feet from the water, the recommended pipe size must be increased to the next size.

**NOTE** All pipe sizes (Schedule 40) are able to withstand the pressures the pump will deliver, but not necessarily the flow. If the pipe is too small for the pump, or if the pump is elevated above water, the maximum gallons per minute (GPM) may not be delivered. If this happens, the pump will develop an air pocket (cavitation) that will make noise, and the life of the pump may be shortened.

### Table 2. Pipe Sizing Chart for Schedule 40 PVC

<table>
<thead>
<tr>
<th>Pipe Size</th>
<th>Maximum Flow Suction (8 feet per second)</th>
<th>Maximum Flow Discharge (10 feet per second)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1½&quot;</td>
<td>50 GPM (189 LPM)</td>
<td>65 GPM (246 LPM)</td>
</tr>
<tr>
<td>2&quot;</td>
<td>85 GPM (322 LPM)</td>
<td>105 GPM (397 LPM)</td>
</tr>
<tr>
<td>2½&quot;</td>
<td>120 GPM (454 LPM)</td>
<td>149 GPM (564 LPM)</td>
</tr>
</tbody>
</table>

3. FHP Pumps come equipped with unions on both the suction and discharge ports. This feature simplifies installation and service, and it eliminates the possibility of leaks at threaded adapters.

4. The FHP Pump must be connected to at least two (2) main drains (suction outlets) for each pool pump suction line. Each drain must be provided with covers that are listed or certified to the latest published version of ANSI/ASME A112.19.8. The suction outlets of the main drains must be at least 3 feet apart or at different planes. The suction outlets can be a drain and skimmer, two (2) drains, two (2) skimmers, or a skimmer with an equalizer line installed. For additional details and guidelines, refer to ANSI/APSP 7, the standard for *Suction Entrapment Avoidance in Swimming Pools, Wading Pools, Spas, Hot Tubs, and Catch Basins*. Check the local codes for proper installation requirements. Applicable local codes will take precedence over other codes.

**NOTE** To prevent entrapment, the system must be built so that it cannot operate with the pump drawing water from only one (1) main drain. At least two (2) main drains must be connected to the pump when it is in operation. However, if two (2) main drains run into a single suction line, the single suction line may be equipped with a valve that will shut off both main drains from the pump.

5. The piping must be well supported and not forced together in places where constant stress will be experienced.

6. Always use properly sized valves. Jandy Diverter Valves and Jandy Ball Valves typically have the best flow capabilities.

7. Use the fewest fittings possible. Every additional fitting has the effect of moving the equipment farther away from the water.

**NOTE** If more than 10 suction fittings are needed, the pipe size must be increased.

8. Every new installation must be pressure tested according to local codes. See Section 3.3, *Pressure Testing*.

### 3.2 Electrical Installation

#### 3.2.1 Voltage Checks

The correct voltage, as specified on the pump data plate, is necessary for proper performance and long motor life. The incorrect voltage will decrease the pump’s ability to perform and can cause overheating, reduce the motor life, and result in higher electric bills.
It is the responsibility of the electrical installer to provide data plate operating voltage to the pump by ensuring proper circuit sizes and wire sizes for the specific application.

**CAUTION**

Failure to provide data plate voltage (within 10%) during operation will cause the motor to overheat and will void the warranty.

### 3.2.2 Bonding and Grounding

1. The motor frame must be grounded to a reliable grounding point using a solid copper conductor, No. 8 AWG or larger. In Canada, No. 6 AWG or larger must be used. If the pump is installed within 5 feet of the inside walls of the swimming pool, spa, or hot tub, the motor frame must be bonded to all metal parts of the swimming pool, spa, or hot tub structure and to all electrical equipment, metal conduit, and metal piping within 5 feet of the inside walls of the swimming pool, spa, or hot tub.

2. Bond the motor using the provided external lug.

**WARNING**

To avoid the risk of property damage, severe personal injury, and/or death, always disconnect the power source before working on a motor or its connected load.

### 3.2.3 Electrical Wiring

**WARNING**

To avoid the risk of property damage, severe personal injury, or death, always ground before connecting to an electrical power supply.

1. The pump motor must be securely and adequately grounded using the green screw provided. Ground before attempting to connect to an electrical power supply. Do not ground to a gas supply line.

2. Wire size must be adequate to minimize a voltage drop during the start-up and operation of the pump. See Table 3 for suggested wire sizes.

3. Insulate all connections carefully to prevent grounding or short-circuits. Provide extra protection for sharp edges on terminals. To prevent wire nuts from loosening, tape them.

<table>
<thead>
<tr>
<th>Model</th>
<th>Branch Fuse AMPS Class: CC, G, H, J, K, RK, or T</th>
<th>Voltage</th>
<th>Voltage</th>
<th>Voltage</th>
<th>Voltage</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>230 VAC 115 VAC</td>
<td>230 VAC</td>
<td>115 VAC</td>
<td>230 VAC</td>
<td>115 VAC</td>
</tr>
<tr>
<td>FHPM 0.75HP</td>
<td>15A</td>
<td>14</td>
<td>12</td>
<td>12</td>
<td>8</td>
</tr>
<tr>
<td>FHPM 1.0HP</td>
<td>15A</td>
<td>14</td>
<td>10</td>
<td>10</td>
<td>8</td>
</tr>
<tr>
<td>FHPM 1.5HP</td>
<td>15A</td>
<td>12</td>
<td>10</td>
<td>10</td>
<td>6</td>
</tr>
<tr>
<td>FHPM 2.0HP</td>
<td>15A</td>
<td>12</td>
<td>8</td>
<td>8</td>
<td>6</td>
</tr>
<tr>
<td>FHPM 2.5HP</td>
<td>15A</td>
<td>12</td>
<td>N/A</td>
<td>8</td>
<td>N/A</td>
</tr>
<tr>
<td>FHPM 1.0HP-2-Speed</td>
<td>15A</td>
<td>14</td>
<td>N/A</td>
<td>10</td>
<td>N/A</td>
</tr>
<tr>
<td>FHPM 1.5HP-2-Speed</td>
<td>15A</td>
<td>12</td>
<td>N/A</td>
<td>10</td>
<td>N/A</td>
</tr>
<tr>
<td>FHPM 2.0HP-2-Speed</td>
<td>15A</td>
<td>12</td>
<td>N/A</td>
<td>8</td>
<td>N/A</td>
</tr>
</tbody>
</table>

*Assumes three (3) copper conductors in a buried conduit and 3% maximum voltage loss in branch circuit. All National Electrical Code (NEC) and local codes must be followed. Table shows minimum wire size and branch fuse recommendations for a typical installation per NEC.
using a suitable, listed (UL, ETL, CSA) electrical insulating tape. For safety, and to prevent entry of contaminants, reinstall all conduit and terminal box covers. Do not force connections into the conduit box.

4. To configure the internal wiring of the pump motor for the correct voltage, refer to the diagram on the motor data plate.

3.3 Pressure Testing

**WARNING**
When pressure testing a system with water, air is often trapped in the system during the filling process. This air will compress when the system is pressurized. Should the system fail, this trapped air can propel debris at a high speed and cause property damage, severe injury, or death. Every effort to remove trapped air must be taken, including opening the bleed valve on the filter and loosening the pump basket lid while filling the pump.

**WARNING**
Trapped air in system can cause the filter lid to be blown off, which can result in death, serious personal injury, or property damage. Be sure all air is properly out of system before operating. DO NOT USE COMPRESSED AIR TO PRESSURE TEST OR CHECK FOR LEAKS.

**WARNING**
Do not pressure test above 35 PSI. Pressure testing must be done by a trained pool professional. Circulation equipment that is not tested properly may fail. This could result in severe personal injury or property damage.

**WARNING**
When pressure testing the system with water, it is very important to make sure that the pump basket lid is completely secure.

1. Fill the system with water, being careful to eliminate trapped air.
2. Pressurize the system with water to no more than 35 PSI.
3. Close the valve to trap pressurized water in the system.
4. Carefully observe the system for leaks and/or pressure decay.

Section 4. Operation

4.1 Start-up

**CAUTION**
Never run the pump without water. Running the pump "dry" for any length of time can cause severe damage to both the pump and motor and will void the warranty.

If this is a new pool installation, make sure all piping is clear of construction debris and has been properly pressure tested. Check the filter for proper installation, verifying that all connections and clamps are secure according to the manufacturer’s recommendations.

**WARNING**
To avoid risk of property damage, severe personal injury, or death, verify that all power is turned off before starting this procedure.

1. Release all pressure from the system and open the filter pressure release valve.
2. Take one of the following actions:
   - If the pump is located below the water level of the pool, open the filter pressure release valve to prime the pump with water.
   - If the pump is located above the water level, remove the lid and fill the basket with water before starting the pump.
3. Prior to replacing the lid, check for debris around the lid o-ring seat. Debris around the lid o-ring seat will cause air to leak into the system, and make it difficult to prime the pump.
4. **Hand-tighten** the lid to make an air tight seal. **Do not use any tools to tighten the lid: hand-tighten only.** Ensure that the lid is secure. Make sure all valves are open and the unions are tight.
5. Restore power to the pump and then turn it on.
6. Once all the air has left the filter, close the filter pressure release valve.
7. The pump should prime. The time it takes to prime will depend on the elevation and length of pipe used on the suction supply pipe. See Section 3.1.3.3, Installation Recommendations for proper elevation and pipe size.
8. If the pump does not prime and all the instructions to this point have been followed, check for a suction leak. If there is no leak, repeat Steps 2 through 7.
Section 5. Service and Maintenance

5.1 Routine Maintenance

**WARNING**

To avoid the risk of property damage, severe personal injury, and/or death, turn off the pump and switch off the circuit breaker to the pump motor before servicing the pump.

Inspect the pump basket for debris by looking through the clear pump lid. Remove any debris, because as debris accumulates, it will begin to block the flow of water through the pump. Keep the basket clean to improve the performance of the pump.

1. Turn off the power to the pump. If the pump is located below the water level, close the isolation valves on the suction and discharge sides of the pump to prevent backflow of water.
2. Turn the lid’s locking ring counter-clockwise until ‘START’ aligns with the ports. Carefully remove the lid.

**CAUTION**

A misaligned basket will cause the lid to be improperly seated, allowing an air leak, which could result in pump damage.

3. Lift the basket out of the pump. Dispose of all debris and thoroughly clean the basket, making sure all the holes are open. Using a garden hose, spray the basket from the outside to help clear the holes. Remove any remaining debris by hand.
4. Replace the basket in the pump by aligning the open section of the basket with the inlet pipe. If aligned properly, the basket will drop easily into place. **Do not force it into place.**
5. Remove the lid o-ring and remove debris around the lid o-ring seat, as this will cause air leaks into the system. Clean the lid o-ring and replace it.
6. Replace the lid with locking ring on the pump housing. Align ‘START’ with the ports and turn the lid’s locking ring clockwise until ‘LOCKED’ aligns with the ports. **Hand-tighten** the lid to make an air tight seal. **Do not use any tools to tighten the lid.**
7. Verify that all valves have been returned to the proper position for normal operation.
8. Open the pressure release valve on the filter, and make sure it is clean and ready for operation.
9. Turn on the power to the pump. Once all the air has been evacuated from the filter, close the filter pressure release valve.

5.2 Winterizing the Pump

**CAUTION**

The pump must be protected when freezing temperatures are expected. Allowing the pump to freeze will cause severe damage and void the warranty.

**CAUTION**

Do not use antifreeze solutions in the pool, spa, or hot tub systems! Antifreeze is highly toxic and may damage the circulation system. The only exception to this is Propylene Glycol. For more information, see your local pool/spa supply store or contact a qualified swimming pool service company.

1. Drain all water from the pump, system equipment, and piping.
2. Remove the two (2) drain plugs. Store the drain plugs in a safe location and reinstall them when the cold weather season is over. **Do not lose the o-rings.**
3. Keep the motor covered and dry. Do not cover it with plastic, as this will create condensation and this moisture will damage the pump.

**NOTE**

To protect your pump, Zodiac Pool Systems, Inc. recommends having a qualified service technician or electrician properly disconnect the electrical wiring at the switch or junction box. Once the power is removed, the two (2) unions can be loosened and the pump stored indoors. For safety, and to prevent entry of contaminants, reinstall all conduit and terminal box covers.

4. When the system is reopened for operation, make sure all piping, valves, wiring, and equipment are in accordance with the manufacturer’s recommendations. Pay close attention to the filter and electrical connections.
5. The pump must be primed prior to starting; refer to Section 4.1, Start-up.
Section 6. Troubleshooting and Repair

Zodiac Pool Systems, Inc. strongly recommends that you call a qualified service technician to perform any repairs on the filter/pump system. To locate a qualified technician, check your local yellow pages or visit [www.jandy.com](http://www.jandy.com) and click on “Product Support.”

### 6.1 Troubleshooting

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Possible Problem/Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>The cleaning/circulating system is not operating correctly.</td>
<td>Verify that skimmer baskets, pump basket and other screens are clean. Clean as necessary. Check filter and clean as necessary. Check valve positions. Adjust as necessary. <strong>NOTE</strong> Multiple pieces of equipment operating at one time (for example, waterfalls, spa jets, and surface returns) may affect the cleaning system and prevent it from working properly. Check the cleaning system manual to ensure that the system is adjusted according to the manufacturer’s recommendations.</td>
</tr>
<tr>
<td>Bubbles present in the pump basket.</td>
<td>Air in system. Check the pool or spa water level to ensure that it is at the proper level and that air is not being drawn into the suction piping. If the water is at the normal level, turn off the pump. Turn the lid’s locking ring counter-clockwise until ‘START’ aligns with the ports. Carefully remove the lid and check for debris around the lid o-ring seat, as debris will cause air to leak into the system. Clean the lid o-ring and place on the lid. Replace the lid with locking ring on the pump housing. Align ‘START’ with the ports and turn the lid’s locking ring clockwise until ‘LOCKED’ aligns with the ports. <strong>Hand-tighten</strong> the lid to make an air tight seal. <em>Do not use any tools to tighten the lid.</em> Turn the pump back on.</td>
</tr>
<tr>
<td>Air leaks are still present.</td>
<td>Check the suction side piping union. While the pump is running, try to tighten the union. If this does not stop the air leak, turn off the pump. Loosen both unions and slide the pump out of the way. Remove, clean and re-install both union o-rings. Reposition the pump next to the piping and secure the union nuts to the pump. With clean union o-rings, hand-tightening of the unions should create a seal. If the unions still do not seal, gently tighten with a large pair of tongue-and-groove pliers. <em>Do not over-tighten.</em></td>
</tr>
<tr>
<td>There is no air in the system, but the pressure is still low.</td>
<td>It is possible that debris is caught in the pump impeller. The pump impeller moves the water, and the vanes in the impeller can become blocked with debris. See <a href="#">Section 6.2, Service Technician Maintenance, 6.2.1, Blocked Impeller</a>, for more information.</td>
</tr>
<tr>
<td>There is no debris blocking the impeller and the pressure is still low.</td>
<td>The pump impeller and diffuser are showing signs of normal wear. Have a qualified service technician check the impeller and diffuser and replace as necessary. If the pump is part of a relatively new installation, it could be an electrical problem. Contact a qualified service technician. Have the technician check for loose electrical connections and check the voltage at the pump motor while it is in operation. The voltage must be within 10% of the motor’s data plate rating. If the voltage is not within 10%, contact a qualified electrician and/or the local power service provider. The pump seal is leaking air. Have a qualified service technician replace the seal.</td>
</tr>
<tr>
<td>The pump is leaking water between the motor and pump body.</td>
<td>This is caused by a damaged or failed mechanical seal. Replace the seal. See <a href="#">Section 6.2, Service Technician Maintenance, 6.2.4, Mechanical Seal Replacement</a>.</td>
</tr>
<tr>
<td>The pump gets hot and shuts off periodically.</td>
<td>Ensure that there is adequate room around the motor to circulate air and keep the motor cool. Have a qualified electrician check for loose connections and check the voltage at the pump motor while it is in operation. The voltage must be within 10% of the motor’s data plate rating. If the voltage is not within 10%, contact a qualified electrician and/or the local power service provider.</td>
</tr>
</tbody>
</table>
4. Pull the motor and backplate out of the pump body. Remove the pump body o-ring. The impeller is connected to the motor shaft.

2. Turn off any valves to prevent pool water from reaching the pump. Drain the water from the pump by loosening the unions or removing the drain plugs.

3. Using a 9/16” wrench, loosen the bolts connecting the pump body to the motor backplate. See Figure 7.

6.2.1 Blocked Impeller

1. Turn off the pump. Switch off the circuit breaker to the pump motor.

2. Remove the lid and basket.

3. Look inside the pump for any debris. Remove any debris found inside.

4. Replace the basket and lid.

5. Switch on the circuit breaker to the pump motor.

6. Turn on the pump, and see if the problem is solved.

7. If the impeller is still blocked with debris and it is not possible to remove the debris using Steps 2 through 4, the pump will need to be disassembled in order to access the inlet and outlet of the impeller.

6.2.2 Impeller Removal

1. Turn off the pump. Switch off the circuit breaker to the pump motor. If you are not replacing the motor, do not disconnect the electrical wiring.

NOTE: If you are replacing the motor, Zodiac Pool Systems, Inc. strongly recommends that a qualified service technician or electrician properly disconnect the electrical wiring at the pump motor.

6.2.1 Blocked Impeller

1. Turn off the pump. Switch off the circuit breaker to the pump motor.

2. Remove the lid and basket.

3. Look inside the pump for any debris. Remove any debris found inside.

4. Replace the basket and lid.

5. Switch on the circuit breaker to the pump motor.

6. Turn on the pump, and see if the problem is solved.

7. If the impeller is still blocked with debris and it is not possible to remove the debris using Steps 2 through 4, the pump will need to be disassembled in order to access the inlet and outlet of the impeller.

6.2.2 Impeller Removal

1. Turn off the pump. Switch off the circuit breaker to the pump motor. If you are not replacing the motor, do not disconnect the electrical wiring.

WARNING

This pump must be serviced by a professional service technician, qualified in pool/spa installation. The following procedures must be followed exactly. Improper installation and/or operation can create dangerous electrical hazards, which can cause high voltages to run through the electrical system. This can cause property damage, serious injury, and/or death. Improper installation and/or operation will void the warranty.

WARNING

Before servicing the pump, turn off the pump and switch off the circuit breaker to the pump motor. Severe personal injury, death, or property damage may occur if the pump starts while your hand is inside the pump.

1. Turn off the pump. Switch off the circuit breaker to the pump motor.

2. Remove the lid and basket.

3. Look inside the pump for any debris. Remove any debris found inside.

4. Replace the basket and lid.

5. Switch on the circuit breaker to the pump motor.

6. Turn on the pump, and see if the problem is solved.

7. If the impeller is still blocked with debris and it is not possible to remove the debris using Steps 2 through 4, the pump will need to be disassembled in order to access the inlet and outlet of the impeller.

WARNING

Before servicing the pump, turn off the pump and switch off the circuit breaker to the pump motor. Severe personal injury, death, or property damage may occur if the pump starts while your hand is inside the pump.

1. Turn off the pump. Switch off the circuit breaker to the pump motor. If you are not replacing the motor, do not disconnect the electrical wiring.
6. If necessary, remove any debris in the inlet and outlet of the impeller.

7. Remove the motor shaft cover on the back of the motor by twisting the hex-head screw with a 90° crescent wrench. (See Figure 7.) The motor shaft will be exposed.

8. Hold the exposed motor shaft with a ½" wrench and remove the impeller center screw using a No. 2 Phillips screwdriver. Turn the left-hand-threaded screw clockwise to loosen it. See Figure 9.

6.2.3 Impeller Replacement

**WARNING**
To avoid the risk of property damage, severe personal injury, or death, turn off the pump and switch off the circuit breaker to the pump motor before beginning this procedure.

1. Press the carbon face seal half (see Figure 11) on the motor shaft using a twisting motion. Make sure the carbon surface is facing toward the ceramic ring in the backplate.

**CAUTION** VERY IMPORTANT! Grasp the lower portion of the seal (opposite the carbon face) when installing the seal or it will be damaged.

**NOTE** To assist assembly, only use water or a soap solution as a lubricant. Any other lubricant will destroy the seal after a short period of time.

**NOTE** Exercise great care to keep the seal and mating parts clean.

2. While holding the motor shaft with a ½" wrench, thread the impeller onto the motor shaft. Hand-tighten the impeller until it is secure. Install the impeller center screw into the center of the impeller and tighten, using a No. 2 Phillips screwdriver. Do not overtighten. Turn the left-hand-threaded impeller screw counter-clockwise to tighten it.

3. Replace the motor shaft cover by inserting the cover tabs into the slots and rotating the cover 90° clockwise.

4. Replace the diffuser over the impeller, using care to insert alignment pins into the correct holes. The alignment pins in the diffuser allow the diffuser to be inserted only one (1) way.
5. Replace the two (2) small Phillips-head screws. Tighten the screws to draw the diffuser against the motor backplate.

6. Make sure the diffuser o-ring, o-ring groove, and o-ring seal area are clean and free of debris, which could cause a leak. If you removed the diffuser o-ring during disassembly, re-install it on the diffuser, as shown in Figure 12. If grease is used to retain the diffuser o-ring, it must be silicone based. Do not use petroleum-based grease. It will destroy the o-ring.

7. Slide the diffuser into the mating hole in the pump body. While supporting the motor, start two (2) screws on opposite sides. (This will hold the motor in position while you start the other screws.) Start the other four (4) screws.

8. Tighten all six (6) screws lightly in a crossing “X” pattern using a 9/16" wrench. Start with the inner (middle) two (2), then tighten the outer (top and bottom) four (4) to draw the backplate to the body in a even manner. Once all the screws are snug, torque in the same order to 10 foot-pounds.

9. If the pump is located above the water level of the pool, remove the lid and fill the basket with water before starting the pump.

10. Prior to replacing the lid, remove any debris around the lid o-ring seat, as debris will allow air to leak into the system.

11. Place the lid with locking ring on the pump housing. Align ‘START’ with the ports and turn the lid’s locking ring clockwise until ‘LOCKED’ aligns with the ports. Hand-tighten the lid to make an air tight seal. Do not use any tools to tighten the lid.

12. Open the pressure release valve on the filter and make sure it is clean and ready for operation.

13. Switch on the circuit breaker to the pump motor.

14. Turn on the pump and check the system for normal operation.

15. Once all the air has left the filter, close the filter pressure release valve.

### 6.2.4 Mechanical Seal Replacement

**NOTE** Refer to Figure 13 for an illustration of the location of the mechanical seal and impeller.

**WARNING** Do not damage the ceramic or carbon surfaces of the seals. If surfaces are damaged, leaks will occur.

1. To access the mechanical seal, comply with the warning and follow steps 1 through 8 of [Section 6.2.2, Impeller Removal](#).

2. Remove the carbon face seal half from the motor shaft. (See Figure 11.) This is a spring-loaded seal. Grasp the portion of the seal closest to the impeller body and pull the seal off using a twisting motion.

3. Remove the motor from the backplate following steps 1 through 3 in [Section 6.2.5, Motor Replacement](#).

4. Place the backplate o-ring side down and force the ceramic seal out using a screwdriver or drift.
5. Turn the backplate o-ring side up and insert the new ceramic seal side into the backplate. Use great care to press the seal in squarely with your fingers. The ceramic is easily damaged and must be pressed in using only your fingers or soft tools. Do not use any lubricant other than water and soap solution.

6. Install the backplate following the steps in Section 6.2.3, Impeller Replacement.

7. Install the motor following the steps in Section 6.2.5, Motor Replacement.

### 6.2.5 Motor Replacement

**CAUTION**

To ensure continued safety and reliable operation, Zodiac Pool Systems, Inc. requires that you replace the motor with a motor that has the identical HP rating and service factor (Zodiac Pool Systems, Inc. approved only).

**WARNING**

To avoid the risk of property damage, severe personal injury, or death, turn off the pump and switch off the circuit breaker to the pump motor before beginning this procedure.

1. To disassemble the pump housing from the motor, follow steps 1 through 8 in Section 6.2.2, Impeller Removal.

2. Remove the four (4) screws on the main cover and remove the main cover.

3. Place the backplate motor assembly o-ring side down and unscrew the four (4) 9/16" screws and remove the motor.

**NOTE** Before removing the backplate, note the alignment of the backplate to the motor. See Figure 14.

4. If installing a new motor, remove the protective plastic cap from the motor shaft. Place the motor on the backplate so that the opening in the motor faces the bottom of the backplate. The starting capacitor on the motor should be at the 12 o’clock position.

5. Replace the four (4) bolts and washers holding the backplate to the motor.

6. To reassemble the pump after replacing the motor, follow steps 1 through 13 of Section 6.2.3, Impeller Replacement.

**NOTE** Zodiac Pool Systems, Inc. recommends replacing the mechanical seal at the same time that you replace the motor. See Section 6.2.4, Mechanical Seal Replacement, for details.
## Section 7. Product Specifications and Technical Data

### 7.1 Replacement Parts List

To order or purchase parts for Jandy pumps, contact your nearest Jandy dealer. If the Jandy dealer cannot supply you with what you need, contact Jandy customer service at 1.800.822.7933, or send an e-mail message to info@jandy.com.

<table>
<thead>
<tr>
<th>Key No.</th>
<th>Description</th>
<th>Model No. (HP)</th>
<th>Order Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Single-speed Motor &amp; Hardware, FHP</td>
<td>0.75</td>
<td>R0479310</td>
</tr>
<tr>
<td>1</td>
<td>Single-speed Motor &amp; Hardware, FHP</td>
<td>1.0</td>
<td>R0479311</td>
</tr>
<tr>
<td>1</td>
<td>Single-speed Motor &amp; Hardware, FHP</td>
<td>1.5</td>
<td>R0479312</td>
</tr>
<tr>
<td>1</td>
<td>Single-speed Motor &amp; Hardware, FHP</td>
<td>2.0</td>
<td>R0479313</td>
</tr>
<tr>
<td>1</td>
<td>Single-speed Motor &amp; Hardware, FHP</td>
<td>2.5</td>
<td>R0479314</td>
</tr>
<tr>
<td>1</td>
<td>2-Speed Motor &amp; Hardware, FHP</td>
<td>1.0</td>
<td>R0479306</td>
</tr>
<tr>
<td>1</td>
<td>2-Speed Motor &amp; Hardware, FHP</td>
<td>1.5</td>
<td>R0479307</td>
</tr>
<tr>
<td>1</td>
<td>2-Speed Motor &amp; Hardware, FHP</td>
<td>2.0</td>
<td>R0479308</td>
</tr>
<tr>
<td>2</td>
<td>Backplate, FHP (Backplate w/Hardware, Backplate O-ring &amp; Mechanical Seal)</td>
<td></td>
<td>R0479500</td>
</tr>
<tr>
<td>3</td>
<td>Impeller, FHP (Impeller, Screw w/O-ring &amp; Backplate O-ring)</td>
<td>0.75</td>
<td>R0479601</td>
</tr>
<tr>
<td>3</td>
<td>Impeller, FHP (Impeller, Screw w/O-ring &amp; Backplate O-ring)</td>
<td>1.0, 1.0-2</td>
<td>R0479602</td>
</tr>
<tr>
<td>3</td>
<td>Impeller, FHP (Impeller, Screw w/O-ring &amp; Backplate O-ring)</td>
<td>1.5, 1.5-2</td>
<td>R0479603</td>
</tr>
<tr>
<td>3</td>
<td>Impeller, FHP (Impeller, Screw w/O-ring &amp; Backplate O-ring)</td>
<td>2.0, 2.0-2</td>
<td>R0479604</td>
</tr>
<tr>
<td>3</td>
<td>Impeller, FHP (Impeller, Screw w/O-ring &amp; Backplate O-ring)</td>
<td>2.5</td>
<td>R0479605</td>
</tr>
<tr>
<td>4</td>
<td>Diffuser, FHP (Diffuser w/O-ring, Hardware &amp; Backplate O-ring)</td>
<td>0.75, 1.0, 1.0-2</td>
<td>R0479702</td>
</tr>
<tr>
<td>4</td>
<td>Diffuser, FHP (Diffuser w/O-ring, Hardware &amp; Backplate O-ring)</td>
<td>1.5, 1.5-2, 2.0, 2.0-2, 2.5</td>
<td>R0479701</td>
</tr>
<tr>
<td>5</td>
<td>Mechanical Seal, Carbon and Ceramic (1 Set)</td>
<td></td>
<td>R0479400</td>
</tr>
<tr>
<td>6</td>
<td>Pump Body, FHP (Body and Backplate O-ring)</td>
<td></td>
<td>R0479800</td>
</tr>
<tr>
<td>7</td>
<td>Motor Mounting Foot, FHP</td>
<td></td>
<td>R0479900</td>
</tr>
<tr>
<td>8</td>
<td>Lid w/Locking Ring, FHP (Lid w/Locking Ring &amp; Lid O-ring)</td>
<td></td>
<td>R0480000</td>
</tr>
<tr>
<td>9</td>
<td>Pump Debris Filter Basket, FHP</td>
<td></td>
<td>R0480100</td>
</tr>
<tr>
<td>10</td>
<td>Drain Plug w/ O-ring (Set of 2)</td>
<td></td>
<td>R0446000</td>
</tr>
<tr>
<td>11</td>
<td>Tail Piece, O-ring &amp; Union Nut (Set of 2)</td>
<td></td>
<td>R0327301</td>
</tr>
<tr>
<td>12</td>
<td>Lid O-ring, FHP</td>
<td></td>
<td>R0480200</td>
</tr>
<tr>
<td>13</td>
<td>Backplate O-ring, FHP</td>
<td></td>
<td>R0480300</td>
</tr>
<tr>
<td>14</td>
<td>Diffuser/Impeller Hardware (Diffuser O-ring, Screws (2), Screw w/O-ring &amp; Backplate O-ring)</td>
<td></td>
<td>R0480400</td>
</tr>
<tr>
<td>15</td>
<td>Backplate Hardware, FHP (Backplate Hardware &amp; Backplate O-ring)</td>
<td></td>
<td>R0480500</td>
</tr>
<tr>
<td>16</td>
<td>Motor Hardware Kit</td>
<td></td>
<td>R0446700</td>
</tr>
<tr>
<td>17</td>
<td>Tailpiece O-ring (Set of 2)</td>
<td></td>
<td>R0337601</td>
</tr>
<tr>
<td>18</td>
<td>Pump Base Kit</td>
<td></td>
<td>R0486700</td>
</tr>
</tbody>
</table>
7.2 Exploded View

Figure 15. FHP Exploded View
7.3 Performance Curves

Jandy FloPro Series Pumps
Max-Rated (FHPM)

Total Dynamic Head
(Feet of Water)

Pounds Per Square Inch
(PSI)

Flow Rate, Gallons Per Minute
(GPM)
7.4 Physical and Operational Specifications

7.4.1 Specifications

Table 4. FHPM Pump Specifications

<table>
<thead>
<tr>
<th>Model No.</th>
<th>HP</th>
<th>Voltage</th>
<th>Amps</th>
<th>Pipe Size</th>
<th>Carton Weight</th>
<th>Overall Length 'A'</th>
</tr>
</thead>
<tbody>
<tr>
<td>FHPM .75</td>
<td>0.75</td>
<td>230/115</td>
<td>5.4/10.8</td>
<td>1½-2&quot;</td>
<td>40.6</td>
<td>25 3/16&quot;</td>
</tr>
<tr>
<td>FHPM 1.0</td>
<td>1.00</td>
<td>230/115</td>
<td>7.1/14.2</td>
<td>2-2½&quot;</td>
<td>41.2</td>
<td>25 3/16&quot;</td>
</tr>
<tr>
<td>FHPM 1.5</td>
<td>1.50</td>
<td>230/115</td>
<td>8.0/16</td>
<td>2-2½&quot;</td>
<td>42.6</td>
<td>25 ½&quot;</td>
</tr>
<tr>
<td>FHPM 2.0</td>
<td>2.00</td>
<td>230/115</td>
<td>11.2/22.4</td>
<td>2-2½&quot;</td>
<td>54.6</td>
<td>27 3/16&quot;</td>
</tr>
<tr>
<td>FHPM 2.5</td>
<td>2.50</td>
<td>230</td>
<td>11.5</td>
<td>2½-3&quot;</td>
<td>48.6</td>
<td>26 3/16&quot;</td>
</tr>
<tr>
<td>FHPM 1.0-2-SPD</td>
<td>1.00</td>
<td>230</td>
<td>6.0/2.3</td>
<td>2½-3&quot;</td>
<td>46.5</td>
<td>26 5/16&quot;</td>
</tr>
<tr>
<td>FHPM 1.5-2SPD</td>
<td>1.50</td>
<td>230</td>
<td>7.2/3.0</td>
<td>2½-3&quot;</td>
<td>48.0</td>
<td>26 9/16&quot;</td>
</tr>
<tr>
<td>FHPM 2.0-2SPD</td>
<td>2.00</td>
<td>230</td>
<td>10.0/3.5</td>
<td>2½-3&quot;</td>
<td>52.9</td>
<td>27 11/16&quot;</td>
</tr>
</tbody>
</table>

7.4.2 Dimensions

Table 5 shows the height of the FHP pump in the three (3) mounting configurations listed below. Figures 2, 3 and 6, on page 9, show drawings of these three (3) configurations.

1) Without the FHP base
2) With the FHP base
3) With the FHP base and spacers

The width of the FHP base (with or without spacers) is 8⅞".

Table 5. FHP Mounting Configurations

<table>
<thead>
<tr>
<th>FHP Mounting Configurations</th>
<th>Suction Side Height</th>
<th>Pump Height</th>
</tr>
</thead>
<tbody>
<tr>
<td>FHP Pump without Base</td>
<td>7 ¾&quot;</td>
<td>12½&quot;</td>
</tr>
<tr>
<td>FHP Pump with Base</td>
<td>8¾&quot;</td>
<td>13½&quot;</td>
</tr>
<tr>
<td>FHP Pump with Base and Spacers</td>
<td>9¼&quot;</td>
<td>14¼&quot;</td>
</tr>
</tbody>
</table>

Figure 16 shows the dimensions (height, width, and length) of the FHP pump without the FHP base and spacers.

![Figure 16. FHP Pump Dimensions (without Base or Spacers)](image-url)

NOTE See Table 4, column 7 for the value of 'A'.

NOTE When installing the pump, leave a minimum of two feet (2 ft) of clearance above the pump for removal of the strainer basket.
### 7.5 Replacement Motor Guide

Table 6. FHPM Replacement Motor Guide

<table>
<thead>
<tr>
<th>Jandy FHPM Pump Model</th>
<th>A.O. Smith Century Model</th>
<th>Emerson Motor Technologies Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>FHPM 0.75</td>
<td>B852</td>
<td>EB852</td>
</tr>
<tr>
<td>FHPM 1.0</td>
<td>B853</td>
<td>EB853</td>
</tr>
<tr>
<td>FHPM 1.5</td>
<td>B854</td>
<td>EB854</td>
</tr>
<tr>
<td>FHPM 2.0</td>
<td>B859</td>
<td>EB859</td>
</tr>
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<td>FHPM 2.5</td>
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