4. INSTALL BLOWER

Installation must be done in accordance with the National Electrical Code® ("NEC®" or NFPA-70®) in the US, the Canadian Electrical Code ("CEC" or CSA C22.1) in Canada, and/or any other local and national installation codes.

1. Refer to the "Select BLOWER" section (facing page) to ensure that you have the correct blower size for your application.

2. Pressure tests to the system should be done prior to the installation of the blower. See Warning Section on adjacent page.

3. Use 2" PVC pipe from the blower valve to jets or bubblers.

4. Slide Blower onto PVC Pipe. Lower until the stop tabs make contact with the PVC pipe.

5. Blower should be installed vertically, away from direct sunlight.

6. Do not glue or otherwise permanently attach the blower to plumbing.

7. Do not remove the check valve diaphragm.

8. Drill two (2) 1/8” pilot holes through the textured fastener safe area marked on the blower body. The holes should be drilled through the blower body and PVC pipe. The holes should be oriented 180° from one another.

9. Install one (1) 1/2” 8-18 thread forming screw into the bracket can have the correct blower size for your application.

10. The blower also comes equipped with a mounting bracket which can be used to secure the blower to a vertical surface such as a wall or post.

11. Do not use the bracket can be removed and stored.

WARNING

Do not use chemical adhesives to affix the blower to the air inlet line. Fumes from chemical adhesives may accumulate in the piping and explode causing property damage, serious injury or death.

SAVE THESE INSTRUCTIONS

Installation Instructions

- Jandy Blowers are powered by high-voltage electric motors and must be installed by a licensed electrician or - certified electrician or a qualified swimming pool service technician.
- The use of alcohol, drugs, or medication before or during spa or hot tub use may lead to unconsciousness with the possibility of drowning and can greatly increase the risk of fatal hyperthermia.
- Obese persons and persons with a history of heart disease, low or high blood pressure, circulatory system problems, or diabetics should consult a physician before using a spa.
- People with infectious diseases should not use a spa or hot tub.
- Exercise care when entering or exiting the spa or hot tub.
- Water temperature in excess of 100°F (38°C) may be injurious to your health.
- Do not use a spa or hot tub immediately following strenuous exercise.
- Prolonged immersion in a spa or hot tub may be injurious to your health.
- Do not permit any electric appliance (such as a light, radio, or television) within 5 feet (1.5m) of a spa or hot tub.

Attention installer: This manual contains important information about the installation, operation and use of this product. This information should be given to the owner/operator of this equipment.

IMPORTANT SAFETY INSTRUCTIONS READ AND FOLLOW ALL INSTRUCTIONS

WARNING - Jandy Blowers are powered by high-voltage electric motors and must be installed by a licensed or - certified electrician or a qualified swimming pool service technician.
1. When using nonmetallic plumbing, install blower no less than 1 foot (305 mm) above the maximum water level or with an approved Hartford loop configuration as outlined in section 2 “Plumbing” to prevent water from contacting electrical equipment. Install in accordance with the Installation Instructions.
2. Installation must be done in accordance with the National Electrical Code® ("NEC®" or NFPA-70®) in the US, the Canadian Electrical Code ("CEC" or CSA C22.1) in Canada, and/or any other local and national installation codes.
3. Use 2” PVC pipe from the blower valve to jets or bubblers.
4. Drill two (2) 1/8” pilot holes through the textured fastener safe area marked on the blower body. The holes should be drilled through the blower body and PVC pipe. The holes should be oriented 180° from one another.
5. Install one (1) 1/2” 8-18 thread forming screw into the bracket can have the correct blower size for your application.
6. The blower also comes equipped with a mounting bracket which can be used to secure the blower to a vertical surface such as a wall or post.
7. Do not use the bracket can be removed and stored.
8. Do not glue or otherwise permanently attach the blower to plumbing.
9. Do not remove the check valve diaphragm.
10. Drill two (2) 1/8” pilot holes through the textured fastener safe area marked on the blower body. The holes should be drilled through the blower body and PVC pipe. The holes should be oriented 180° from one another.
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Blower Body

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1. SELECT BLOWER

Correctly sizing the blower for your application is a critical step to the sustained operational quality of your Jandy Pro Series Pool and Spa Blower. Damage or failure due to an improperly sized blower is not covered under warranty.

SIZING WORKSHEETS: The worksheets below will guide you through the proper sizing calculations for your application.

Calculate Back Pressure

Calculate back pressure as a measure of "inches of water". Verification of this figure can be made by using a manometer.

**Vertical Measure from Pool/Spa surface to air outlet**

**Number of 1/2 lb check valves**

**Total Back Pressure**

(inches of water)

<table>
<thead>
<tr>
<th>a</th>
<th>Vertical Measure from Pool/Spa surface to air outlet</th>
</tr>
</thead>
<tbody>
<tr>
<td>b</td>
<td>Number of 1/2 lb check valves</td>
</tr>
<tr>
<td>c</td>
<td>Number of 90° Elbows</td>
</tr>
<tr>
<td>d</td>
<td>Number of 45° Elbows</td>
</tr>
<tr>
<td>e</td>
<td>Number of feet of 2&quot; Pipe</td>
</tr>
</tbody>
</table>

**Determine Blower Needed**

Locate the total back pressure, calculated above and draw a horizontal line. Locate the total airflow from previous step and draw a vertical line. These lines will intersect on the performance curve of the minimum HP blower required for your application.

WARNING

Installing an insufficiently sized blower will increase back pressure. Failure to accurately follow the blower sizing calculations provided could result in excessive back pressure. Excessive pressure can cause damage that could result in electrocution causing severe injury or death.

2. PLUMBING

**STANDARD INSTALLATION**

- **Bubbler Jets**
- **Venturi Jets**
- **Blower**

**LONG RUN INSTALLATION** (over 25' from spa wall)

- **Bubbler Jets**
- **Venturi Jets**
- **Blower**

**BELOW GRADE INSTALLATION**

3. WIRING

Installation of this equipment should be performed by a licensed electrician and conform to all National Electrical Code® (NEC®), state and local codes.

1. Ensure all power to the blower has been disconnected at the main breaker.
2. Remove blower front door by removing the two (2) screws sliding the door downward and pulling the door free.
3. Pull in voltage source and ground wire from Power Center.
4. Connect wires from power center to the corresponding wires from the blower motor. Use the wiring diagrams below for reference. The 120 or 240 toggle switch will come preinstalled with flag terminals. Connections will need to be made with Wire nuts.

**120V Wiring**

- **Power Center**
  - **Neutral Bus Bar**
  - **Ground Bus Bar**
  - **Line 1**
  - **Line 2**
- **120V Toggle Switch**

**240V Wiring**

- **Power Center**
  - **Neutral Bus Bar**
  - **Ground Bus Bar**
  - **Line 1**
  - **Line 2**
- **240V Toggle Switch**

**WARNING**

RISK OF ELECTRIC SHOCK WHICH CAN RESULT IN SERIOUS INJURY OR DEATH. Before attempting installation, ensure that all power to the device is disconnected/taken off at the circuit breaker. Be careful not to damage or abrade any wiring or other components.