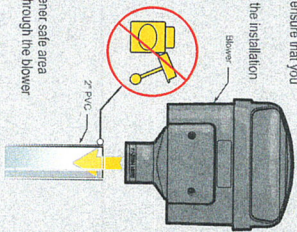


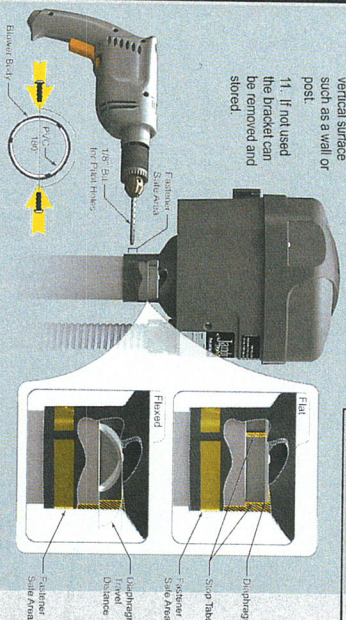
#### 4. INSTALL BLOWER

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 to jets or bubbleers.
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 blower check valve diaphragm.
8. Drill two (2) 1/8" pilot holes through the textured fastener side area marked on the blower body. The holes should be drilled through the 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 each of the previously drilled pilot holes. The screws and pipe should not interfere with the normal travel of the check valve diaphragm.
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. If not used, the bracket can be removed and stored.

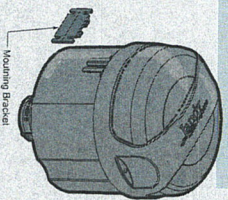


**⚠ WARNING**  
Do not use chemical adhesives to affix the blower to the air inlet line. Fumes from chemical adhesives may accumulate in the piping and explode causing property damage, serious injury or death.



**⚠ CAUTION**  
Blower must be affixed to the plumbing using the fasteners recommended in these instructions. Failure to do so may allow the blower to come free of the plumbing during operation which could damage equipment and prevent proper blower operation.

**⚠ WARNING**  
Blower must be installed in an area well away from sources of exhaust such as spa heaters. Please ensure that this blower is installed according to local codes and Authority Having Jurisdiction (AHJ) requirements.



### IMPORTANT SAFETY INSTRUCTIONS READ AND FOLLOW ALL INSTRUCTIONS

**⚠ 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. Such state or local requirements exist; the installer 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. 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. Installation and operation will void the warranty. Improper installation and/or operation can create a hazardous situation and result in property damage, personal injury, or death. Turn off all circuit breakers required in order to prevent the possibility of electrical injury, property damage, or death. questions or need further details please contact Zodiac Pool Systems Customer Support at: 1.800.822.7933

**⚠ WARNING - RISK OF ELECTRIC SHOCK** - Install at least 5 feet (1.5 m) from tub water or with an approved handrod loop configuration as outlined in section 2 - Plumbing to prevent water level or flooding electrical equipment. Install in accordance with the installation instructions.

To minimize the risk of severe injury or death the system pressurization is subjected to the piping require the pool piping system to be subjected to a pressure test. These requirements are generally not intended to apply to the pool equipment. Zodiac pool equipment is pressure tested at the factory. However, if the WARNING cannot be followed and pressure testing of the piping system must reduce the following **SAFETY PRECAUTIONS**

- Check all drains, bolts, tanks, and system accessories to ensure they are properly installed and secured before testing.
- **RELEASE ALL AIR** in the system before testing
- Test water pressure must NOT EXCEED 35 PSI
- Water temperature for test must NOT EXCEED 100 F (38 C).
- After test, visually check system ready for operation.

**NOTICE:** these parameters are for testing equipment only. For non-Zodiac equipment, consult equipment manufacturer.

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.

**RISK OF ELECTRIC SHOCK - FIRE, PERSONAL INJURY, OR DEATH.** Combined only to a branch circuit.

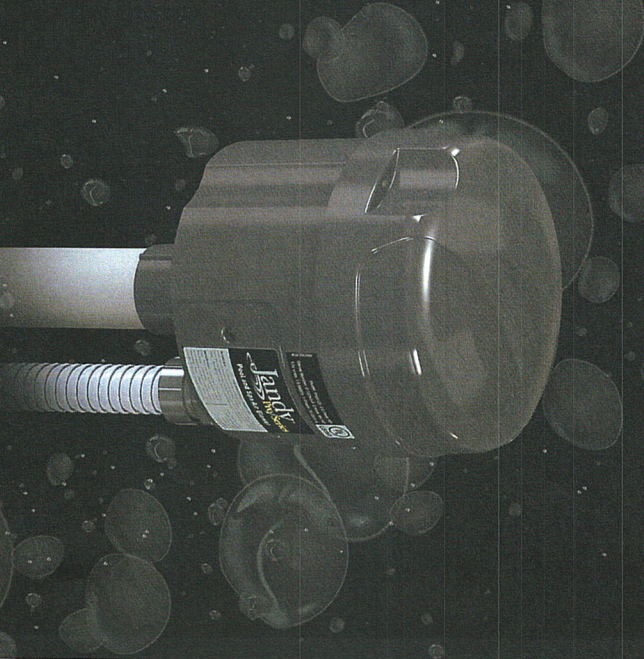
1) Disconnect a qualified electrical circuit interrupter (GFCI). Control a qualified electrical circuit interrupter (GFCI). Make sure such a GFCI is provided by the installer and should be tested on a routine basis. To test the GFCI, push the test button. The GFCI should interrupt power. Push the reset button. Power should be restored. If the GFCI fails to operate in this manner, the GFCI is defective. If the GFCI interrupts power, the GFCI is not the correct action being pushed, a ground current is flowing through the possibility of electrical shock. Do not use the device. Disconnect the device and have the problem corrected by a qualified service representative before using.

- To reduce the risk of injury, do not permit children to use this product.
- Blowers are powered by high-voltage electricity and should be installed by a licensed electrician or a qualified swimming pool service technician.
- Incorrectly installed equipment may fall, causing severe injury or property damage.
- Do not install on a plumbing line that can be closed or shut off. The blower may create severe enough pressures to cause property damage or injury.

**SAVE THESE INSTRUCTIONS**

**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 of this equipment.

### Installation Instructions



# Pool and Spa Air Blower

Models:

- PSB110 PSB115 PSB120
- PSB210 PSB215 PSB220

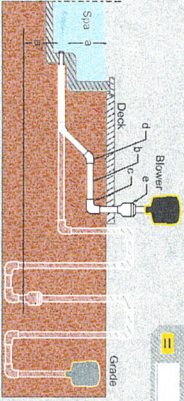
## 1. SELECT BLOWER

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

- a Vertical Measure from Pool/Spa surface to air outlet
- a' Vertical Measure from air outlet to lowest check valve (See Note)
- b Number of feet of 2" Pipe
- c Number of 90° Elbows
- d Number of 45° Elbows
- e Number of 1/2" ID Check Valves



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

Total Back Pressure (Inches of Water)

**NOTE:** Include a for installations with a check valve. See only "Spa" below grade for details. For above grade installations, refer to page 10 of this manual.

### Calculate Airflow

**AIR HOLE SIZE CONVERSION FACTOR**

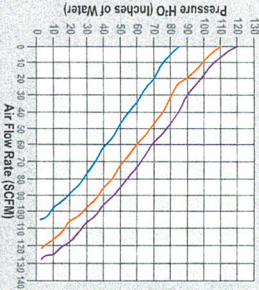
Choose an air hole size from the chart at left and apply the conversion factor in the formula below to determine total airflow in standard cubic feet per minute.

No. of Holes  
Conversion Factor  
Total Airflow  
SCFM  
(Standard Cubic Feet Per Minute)

**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 that could result in electrocution causing severe injury or death.

### 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.



Performance Curves (60 Hz)

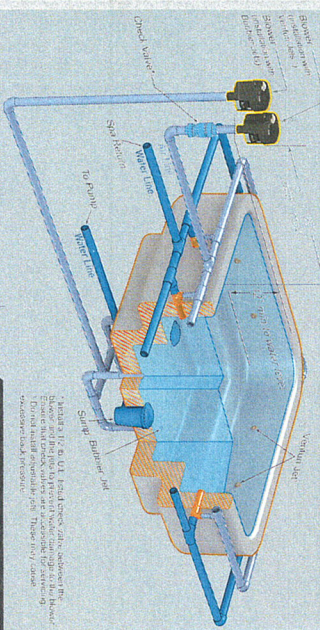
- Max Back Pressure 40" Model: PS8150
- Max Back Pressure 50" Model: PS8215
- Max Back Pressure 65" Model: PS8220

Blower Selection

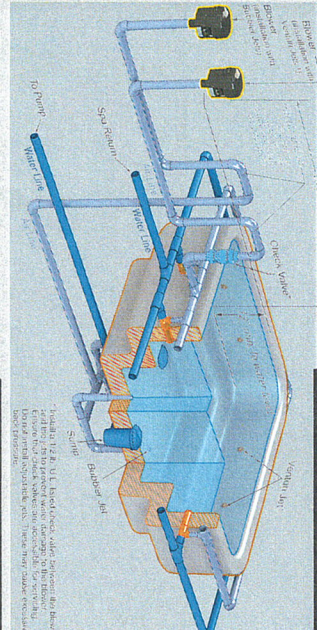
Voltage	1.0 HP	1.5 HP	2.0 HP
120V	PS8110	PS8116	PS8120
240V	PS8210	PS8216	PS8220

## 2. PLUMBING

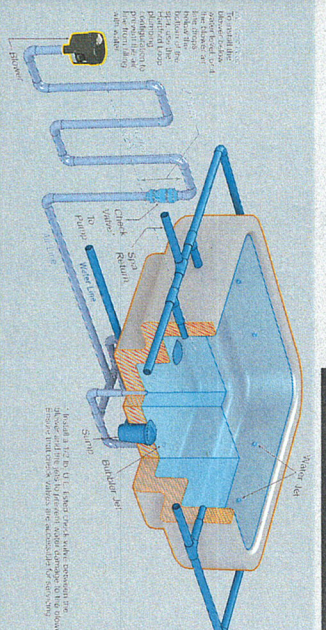
### STANDARD INSTALLATION



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



### BELOW GRADE INSTALLATION



## 3. WIRING

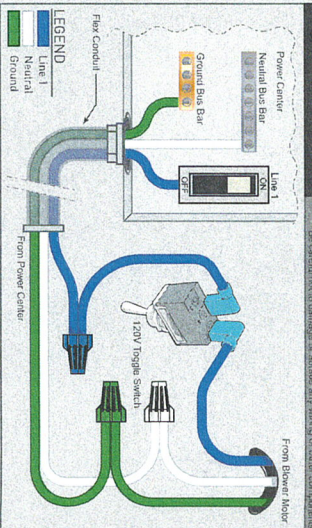
Installation of this equipment should be performed by a licensed electrician and conform to all National Electrical Code (NEC), state and local codes.

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 tag terminals. Connections will need to be made with wire nuts.



### 120V Wiring

**RISK OF ELECTRIC SHOCK WHICH CAN RESULT IN SERIOUS INJURY OR DEATH.** Disconnect and lock off all electrical power to the blower before disconnecting or at the final breaker. Be careful not to damage or attach any wiring or other components.



### 240V Wiring

**RISK OF ELECTRIC SHOCK WHICH CAN RESULT IN SERIOUS INJURY OR DEATH.** Disconnect and lock off all electrical power to the blower before disconnecting or at the final breaker. Be careful not to damage or attach any wiring or other components.

