LIMITED WARRANTY

For one (1) year from the date of purchase, Wayne Water Systems, d/b/a AquaPRO Systems ("AquaPRO") will repair or replace, at its option, for the original owner any parts of its Blower ("Product") which are found upon examination by AquaPRO to be defective in materials or workmanship. This Limited Warranty covers labor for a period of one (1) year for Product sold and installed in the United States (does NOT cover service labor for removal and reinstallation of the blower). Please call AquaPRO at 1-877-278-2797 for instructions. Be prepared to provide the model number and serial number when exercising this limited warranty. Purchaser must pay all transportation charges on Products or parts submitted for repair or replacement. All non-warranty service charges are the responsibility of the original owner. Failure to pay for non-warranty service charges will void this Limited Warranty. This Limited Warranty does not cover Products that have been damaged as a result of accident, abuse, misuse, neglect, improper installation, improper maintenance or failure to operate in accordance with AquaPRO's written instructions. All maintenance and service must be performed by service agents approved by AquaPRO. Any unauthorized alteration or repairs will void this Limited Warranty.

THERE IS NO OTHER EXPRESS WARRANTY. IMPLIED WARRANTIES, INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED TO ONE (1) YEAR FROM THE DATE OF PURCHASE. THIS IS THE EXCLUSIVE REMEDY AND ANY LIABILITY FOR ANY AND ALL INDIRECT OR CONSEQUENTIAL DAMAGES OR EXPENSES WHATSOEVER IS EXCLUDED.

Some states do not allow limitations on how long an implied warranty lasts, or do not allow the exclusions or limitations of incidental or consequential damages, so the above limitations might not apply to you. This limited warranty gives you specific legal rights, and you may also have other legal rights which vary from state to state. In no event, whether as a result of breach of contract warranty, tort (including negligence) or otherwise, shall AquaPRO or its suppliers be liable for any special, consequential, incidental or penal damages including, but not limited to loss of profit or revenues, loss of use of the products or any associated equipment, damage to associated equipment, cost of capital, cost of substitute products, facilities, services or replacement power, downtime costs, or claims of buyer's customers for such damages. This Limited Warranty does not include freight charges for equipment or component parts, to and from the factory, services such as maintenance or inspection, repair or damage due to negligence such as freezing conditions, incorrect installation, nor acts of God. It also does not include refrigerant or other expendable materials. The liability of AquaPRO Systems shall not exceed the repair or replacement of defective parts under this Limited Warranty. This Limited Warranty also does not include unnecessary service calls due to erroneous operational reports, external valve positions, or electrical service. If a non-warranty service call is made, and the homeowner is unwilling to pay for the service call, this Limited Warranty will be voided. This Limited Warranty is voided if the product is repaired or altered by any persons or agencies other than those authorized by AquaPRO Systems. This Limited warranty applies only within the continental USA. For warranty outside the continental USA, contact AquaPRO Systems.

You **MUST** retain your purchase receipt along with this form. In the event you need to exercise a warranty claim, you **MUST** present a **copy** of the purchase receipt at the time of service. Please call AquaPRO Systems at 1-877-278-2797 for service or return authorization and instructions.

DO NOT MAIL THIS FORM TO AQUAPRO SYSTEMS. Use this form only to maintain your records.						
MODEL NO	SERIAL NO	INSTALLATION DATE				

877.278.2797 www.aquaprosystems.com



SPA BLOWER

OWNER'S MANUAL



101 Production Drive, Harrison, OH 45030 877.278.2797 fax 888.610.3839 cs@aquaprosystems.com www.aquaprosystems.com

© 2008 AquaPRO® Systems 323303-013 12/08

THIS PAGE INTENTIONALLY LEFT BLANK.

PRO1002403, PRO1502403, PRO2002403, PRO100120, PRO150120, and PRO200120

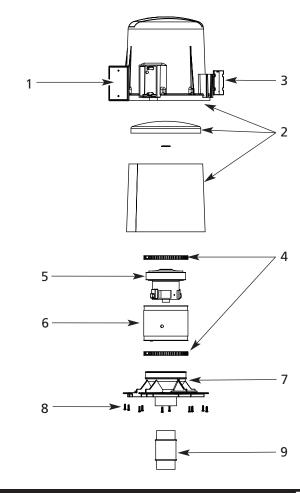
Replacement Parts List

For Replacement Parts, call 1-877-278-2797

Please provide following information:

- Model number
- Serial number (if any)
- Part descriptions and number as shown in parts list

Address parts correspondence to: AquaPRO® Systems Attn: Customer Service 101 Production Drive Harrison, OH 45030 U.S.A.



Ref. No.	Description	Parts Number	QTY.
1	Conduit Cover Plate, Gasket, 2 Screws, and Wiring Diagram (Kit)	81008-001	1
2	Blower Housing with Foam Inserts (Kit)	81006-001	1
3	Bracket	28569-001	1
4	Gear Clamp	67111-001	2
5	Motor		1
	1 hp 120v	81000-001	
	1 hp 240v	81003-001	
	1-1/2 hp 120v	81001-001	
	1-1/2 hp 240v	81004-001	
	2 hp 120v	81002-001	
	2 hp 240v	81005-001	
6	Sleeve	15497	1
7	Discharge Housing	28555-001	1
8	8-16 x 3/4 inch Plastite Screw	67007-001	8
9	Check Valve	10116-001	1

www.aquaprosystems.com 877.278.2797

Download from Www.Somanuals.com. All Manuals Search And Download.

Symptom	Po	ssible Cause(s)	Co	rrective Action(s)	Safety Alert
Blower will not start	1. 2.	Power Off Internal blower overload trips	1. 2.	Check electrical connections and fuse box / control panel Disconnect power then check for restrictions or blockage in air discharge	Disconnect power BEFORE taking any corrective action(s)
		overload trips		line	
	3.	Brushes worn out	3.	Replace motor	
	4.	Nuisance trips	4.	It is possible that if the blower is started and stopped repeatedly in a short time period, the thermal overload could interrupt the circuit. Allow the unit to cool and disconnect power. Restart after 5 - 15 minutes (depending on warmth of ambient conditions).	
Blower hums but will not run	1.	Rotor locked	1.	Disconnect power then check for debris or foreign object lodged in blower motor	Disconnect power BEFORE taking any corrective action(s)
	2.	Brushes worn out	2.	Replace motor	
	3.	Wrong voltage	3.	Verify voltage is correct for blower	
Blower runs but delivers little air	1.	Low voltage	1.	Check electrical connections Verify voltage is correct for blower	Disconnect power BEFORE taking any
	2.	Blower too small for application	2.	Install additional blowers, or reduce piping restrictions	corrective action(s)
	3.	Check valve installed incorrectly	3.	Re-orient check valve	
Internal blower overload trips	1.	Blocked or restricted air line	1.	Check for debris or foreign object lodged in discharge line	Disconnect power BEFORE taking any
	2.	Check valve installed incorrectly	2.	3	corrective action(s)
Blower runs too slow	1.	Incorrect line voltage	1.	Check blower voltage requirements, make certain line voltage is correct	Disconnect power BEFORE taking any
	2.	Incorrect wire size	2.	Verify correct wire gage is being used	corrective action(s)

877.278.2797 www.aquaprosystems.com **Operating Instructions and Parts Manual**

PRO1002403, PRO1502403, PRO2002403, PRO100120, PRO150120, and PRO200120

Please read and save these instructions. Read carefully before attempting to assemble, install, operate or maintain the product described. Protect yourself and others by observing all safety information. Failure to comply with instructions could result in personal injury and/or property damage! Retain instructions for future reference.

Description

The Air Blower is designed for outdoor spa applications. It is designed for low noise and a high air flow rate. The unit is UL listed and the motor is protected with a resetting thermal overload device. The blower is designed for permanent electrical connections.

The box contains the following:

- Blower
- Mounting Bracket
- UL Approved Check Valve
- Conduit Cover Plate, Gasket, and Screws
- Instruction Manual

Unpacking/Unit Inspection

After unpacking the blower, carefully inspect for any damage that may have occurred during transit. Check for loose, missing or damaged parts. **DAMAGE TO THE UNIT DURING**

TRANSPORTATION IS NOT THE **RESPONSIBILITY OF THE** MANUFACTURER.

Important Safety Instructions

When installing and using this electrical equipment, basic safety precautions should always be followed.

READ AND FOLLOW ALL INSTRUCTIONS.

Safety Guidelines

This manual contains information that is very important to know and understand. This information is provided for SAFETY and to PREVENT **EQUIPMENT PROBLEMS.** To help recognize this information, observe the following symbols:

A DANGER

Danger indicates an imminently hazardous situation which, if not avoided, will result in death or serious

A WARNING

Warning indicates a potentially

hazardous situation which, if not avoided, COULD result in death or serious injury.

A CAUTION

Caution indicates a potentially

hazardous situation which, if not avoided, MAY result in minor or moderate injury.

NOTICE

Notice indicates important

information, that if not followed, may cause damage to equipment.

General Safety Information

CALIFORNIA PROPOSITION 65

This product or its **▲ WARNING** power cord may

contain chemicals, including lead, known to the State of California to cause cancer and birth defects or other reproductive harm. Wash hands after handling.

GENERAL

▲ WARNING

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

▲ WARNING

Install blower no less than 1 foot

(305 mm) above the maximum water level to prevent water from contacting electrical equipment. Install in accordance with the installation instructions.

A WARNINGBlower is design. for outdoor use. Blower is designed

Install blower at least two feet above the ground in an area free of debris, chemicals, or sprinklers.

ELECTRICAL

A WARNING

application of power.

Disconnect power before attempting to install, service, relocate or perform any maintenance. Tag and disconnect power and lock the fuse box / control panel to prevent unexpected

A WARNING

Risk of Electric

Shock. Install blower at least 5 feet (1.5 m) from pool / spa water using nonmetallic plumbing.

A WARNING

To reduce

of electrical shock, connect the green colored wire inside the electrical box to the grounding terminal of your electrical

service or supply with a continuous green insulated solid copper conductor minimum No. 8 AWG (8.4 mm2) solid copper conductor between this unit and any metal equipment, metal enclosures of electrical equipment, metal water pipe, or conduit within 5 feet (1.5 m) of the unit.

SAVE THESE INSTRUCTIONS.

Installation **Guidelines**

serious injury.

A WARNINGFailure to observe installation guidelines, could result in death or

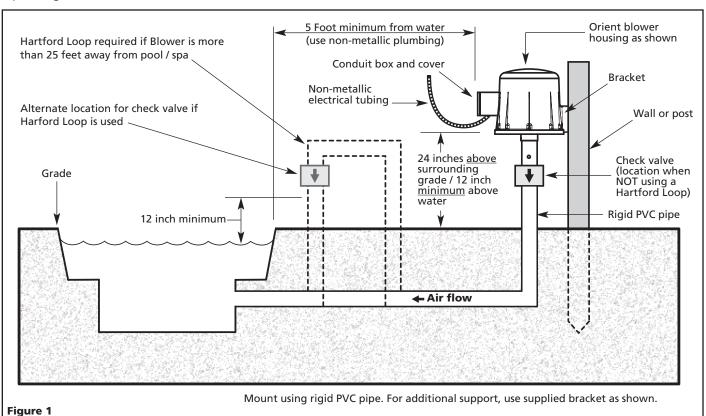
See Figure 1 for recommended installation diagram.

- 1. Install at least 5 feet (1.5 m) from pool / spa water using nonmetallic plumbing. Install blower no less than 1 foot (305 mm) above the maximum water level to prevent water from contacting electrical equipment. Install in accordance with the installation instructions.
- 2. The check valve supplied with the unit must be installed in a vertical orientation above the water level in an easily accessible location for serviceability. Take care to orient the check valve with the arrow pointing in the direction of the air flow inside the pipe.
- 3. Use a separate dedicated 2-inch rigid PVC supply line from the blower to the spa.

REMINDER: Keep your dated proof of purchase for warranty purposes! Attach it to this manual or file it for safekeeping.

877.278.2797 www.aquaprosystems.com

Operating Instructions and Parts Manual



Installation **Guidelines** (Continued)

▲ WARNING Do not glue the blower to the supply line. Glue fumes can potentially cause an explosion when the blower starts. Install a 1/4" self-tapping screw to secure the joint if necessary.

▲ WARNING Do not install blower below water level. Blower must be at least one foot above the maximum water

4. Mount blower in a vertical position using vertical rigid PVC pipe as shown in Figure 1. For additional support use supplied bracket as shown in Figure 1. For warm climates, try to locate the blower in a shaded location.

A WARNINGIf the blower is to be installed more than 25 ft from the spa, it will be necessary to install a loop that is 1 foot above the water line and as close

A loop and a check valve must be

to the spa as possible (See Figure 1).

installed at least one foot above the water level when supercharging water jets.

- 5. Verify plumbing is free of leaks before adding water to spa.
- 6. Do NOT install adjustable jets. Adjustable jets can cause excessive back pressure within the unit.
- 7. Hydrotherapy jets naturally aerate when installed correctly. Do not use blower to supplement aeration when jets have been installed incorrectly.

Wiring Guidelines

A WARNING Failure to observe wiring instructions, could result in death or serious injury.

All wiring and electrical connections must be performed by a qualified electrician. Installations must be in accordance with local and national codes.

- 1. For electrical ratings, see product
- 2. Check the line voltage to make certain it is correct for the blower being used. Do not attempt to connect 240 VAC to a 120-volt blower; it will damage the blower and void the warranty.

- 3. Refer to the National Electric Code Guidelines for wire size and to prevent electric shock.
- 4. Refer to the National Electric Code Guidelines for proper selection of wiring conduit and strain relief.
- 5. The blower field-wiring box is designed for non-metallic electrical tubing only. Refer to the National **Electric Code Guidelines for proper** selection of wiring, and strain
- 6. Be certain to connect the green ground wire supplied with the blower to the ground from your electrical panel.
- 7. Connect remaining line wires individually to the remaining wires in the blower.
- When wiring is complete carefully install gasket and conduit cover plate.

▲ CAUTION

Overheating, shortcircuiting and fire damage will result from inadequate

The number of holes in the seats and

floor of the spa can be used to determine the size of the air blower that will be required for your application. See Chart 1 for recommended blower size based on the number and size of holes.

Water Jet Applications

Blower Sizing

output of hydrotherapy jets. A venturi fitting is normally incorporated into the jet design. The purpose of the fitting is to allow air to mix with the water in the jet. The venturi fittings can be connected together and then pressurized with air from the blower to greatly increase the jet action.

PRO100120, PRO150120, and PRO200120 Winterizing

The blower is designed for outdoor use. There are no special off-season requirements for the blower. In some spa systems it is possible to protect discharge lines from freezing by operating the blower for several minutes with the spa drained. The airflow can be used to purge water from the air lines.

877.278.2797

PRO1002403, PRO1502403, PRO2002403,

The blower can be used to boost the

Blower	Total Hole Area	Recommended Number of Holes at the Following Hole Diameters		Number of	
Model	Square Inches	1/8 Inch	3/16 Inch	1/4 Inch	Water Jets
PRO100120, PRO1002403	1.0	76	35	20	4 to 9
PRO150120, PRO1502403	1.4	100	46	26	9 to 13
PRO200120, PRO2002403	1.8	150	68	38	14 or more
Chart 1					

New Spa

Applications

It is important to select a water pump

that will supply sufficient flow to the

jets. Consult with the jet manufacturer

Improper sizing can cause overheating

Choose the correct size blower based

spa (see Chart 1). See the chart below.

Refer to the installation guidelines for

on the number of water jets in your

for assistance in selecting a pump or

pumps that will accommodate the

number of jets desired in the spa.

of the pump and blower.

additional details.

Notes	

877.278.2797 www.aquaprosystems.com

www.aquaprosystems.com

Free Manuals Download Website

http://myh66.com

http://usermanuals.us

http://www.somanuals.com

http://www.4manuals.cc

http://www.manual-lib.com

http://www.404manual.com

http://www.luxmanual.com

http://aubethermostatmanual.com

Golf course search by state

http://golfingnear.com

Email search by domain

http://emailbydomain.com

Auto manuals search

http://auto.somanuals.com

TV manuals search

http://tv.somanuals.com