

PondMAX[®]

4000 • 12000 • 16000

SubAir Deluxe Aeration Station Rocking Piston Aeration System

Installation • Operation • Maintenance Guidelines



Save this booklet for future reference!

Thank you for your purchase!

This aeration system will be a great benefit to the aquatic ecosystem in which you are placing it. Please read through the following guidelines completely before installation and operation of your aeration system.

Safety Warnings

- Use extreme caution when operating in winter. Danger due to thin ice can cause drowning. Unseen currents can cause thin ice in areas long distances away from diffuser operation. Provide adequate warning for others using a pond with a diffused aeration system.
- The surface of the compressor will be hot during operation. This is normal — be careful not to touch the compressor while it is running.
- **Units must be connected to GFCI protected outlets.**
- Avoid using extension cords to operate compressor.
- Keep children or pets away from operating units
- Always disconnect power when servicing system.
- Relieve pressure from system before servicing.

Operation

- All of our compressors are designed for continuous operation. It is not uncommon for these compressors to run 24 hours per day for three to five years. The only maintenance required is replacement of wearable items (diaphragm, piston ring, vanes, etc.) when needed and keeping filter clean.



CAUTION: All compressors in these kits are designed for oil-free operation. Never oil or lubricate the compressors.

- In addition to adding oxygen to your pond, an aeration system creates a circulation action. It takes hours for the maximum effect to be achieved, therefore we recommend running these systems continuously so that maximum circulation is sustained.

Summer Time Start Up



CAUTION: If you are installing this system at a time when your pond is already stratified (warm on surface, cold on bottom), you should be careful when first starting the aeration system. If the stagnant water on the pond bottom is stirred up too fast, a temporary increase in oxygen demand will occur and, in rare cases, a fish kill could result. If your pond is severely stratified, you should only run your system one to two hours the first day. Each day after that, increase the run time by one to two hours during the first week, run continuously after that. This will slowly mix the bottom water without a sudden depletion of oxygen.

Installation Precautions

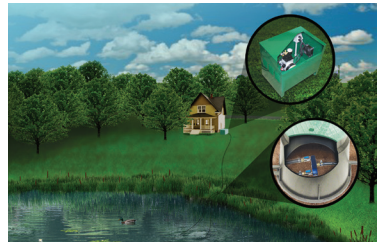
- See next page for compressor placement details.
- The air diffuser should **not** be placed in the deepest part of the pond. Try to locate the diffuser at approximately $\frac{2}{3}$ to $\frac{3}{4}$ of the deepest point (a 15' deep pond would have the diffuser at approximately 10' to 12' deep). This allows the deepest water to remain cool in the summer and stay warm in the winter.
- If you purchased your aeration system without weighted tubing, you will need to supply small weights such as chimney bricks, pipe or rerod. Strap the weights securely around the tubing to bring it to the bottom.
- If your pond freezes during the winter, be sure the tubing is buried leading into the pond. If not, the ice can form around the tubing, kinking it or possibly shearing it off.

 **CAUTION:** *Locate all utilities before digging to ensure safety of installer and others.*

Compressor Placement

It is critical that the air compressors be protected from the weather. You will need to provide a shelter for your compressor to protect it from rain, snow and other harsh elements.

- Be sure your shelter is adequately ventilated. A cooling fan may be necessary in warmer climates. Several cabinet options with fans are available.
- Be sure the compressor does not sit directly on the ground, as the vibration from the motor will cause dust and dirt particles to be pulled into the motor and may cause premature failure. **NOTE – Avoid areas with excessive dust, this can damage compressor.**
- If operating compressor in freezing climates do not place compressor in “heated” buildings. Warm air holds more moisture. This warm air may condensate and freeze in the colder outdoor line.
- Ensure that compressors are placed where they will not become flooded with water.
- If possible, shaded areas are preferred.
- In areas with limited electrical supply, compressors can be placed long distances from the pond edge. A remote access valve assembly can be fed from the compressor with properly sized tubing.



Cabinet Placement

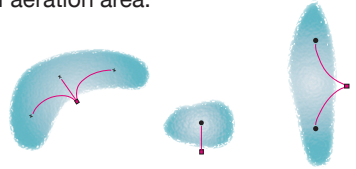
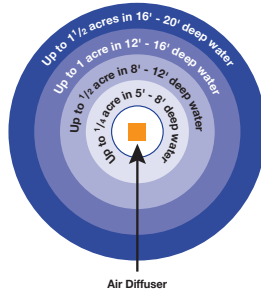
- If installing a system with a ground mount cabinet, place the cabinet on a level, unobstructed base to ensure the compressor does not overheat.
- A post mounted cabinet should be kept free from high weeds and other obstructions to ventilation system.

Diffuser Placement

The amount of surface area an aeration system will effectively cover is greatly dependent on two factors - DEPTH and SHAPE. The deeper an air diffuser is located, the more boiling action it will create and a larger area will be aerated. The diagram below shows how much surface area is effectively aerated per air diffuser at various depths. Ponds that are irregular or odd shaped will also reduce size of aeration area. Call our aeration specialists for additional help.

Example:

Our single diffuser, 1/4hp pond aerator would aerate only 1/8 of an acre if operated in 4' deep water, while aerating up to 1 acre if operating in 12' - 16' deep water.



The shape of a pond affects the amount of diffusers needed. Irregular shaped ponds often require multiple diffusers to adequately aerate entire water column.

General Assembly Instructions

1. Unpack the aeration system to ensure all parts were received. If a shortage occurs, please notify supplier immediately.
2. Assemble diffusers, detailed instructions included with each diffuser assembly.
3. For systems pre-assembled in a cabinet, the filter and valves are connected to the compressor.

For basic kits you will need to install the inlet filter and outlet assembly. On all basic kits, remove the compressor from the box and install the supplied feet. Also, remove the colored inserts from the ports on the head of the compressor. Threaded plugs stay on compressors.

4a. For kits with 1/4 and 1/2 hp compressors:



1/4 hp - 1 outlet



1/2 hp - 2 outlet



1/4 hp - 2 outlet



1/2 hp - 3 outlet

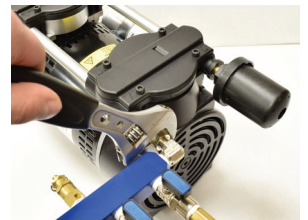
4b. For kits with 3/4 hp compressors:



(1) Thread filter into "INLET" port.



(2) Thread quick disconnect section into "OUTLET" port.



(3) Install remainder of outlet assembly to quick disconnect section.

5. Unroll the entire roll of tubing. It is recommended that the diffuser be installed at this point. This will allow you to trim any unused tubing before attaching to the compressor. Use clamps to secure tubing to outlet assembly.
6. Open the valves on the outlet assembly to their full open position. Plug the compressor into a GFCI outlet and adjust each valve to equal the air flow to each diffuser. This equalizes air flow between diffusers with different operating depths and/or tubing lengths.

Maintenance Guidelines

- Keep your compressor and intake filter clean. Any excess dust and debris on motor or air intake may significantly shorten the life of the compressor.
- Diffusers may need regular cleaning in certain water conditions. This may be every two to five years.
- Compressors may need to be rebuilt if running but no longer “pumping air.” Contact your supplier for compressor rebuild kits.
- If lines become frozen, a small amount of denatured alcohol can be run down the frozen line to thaw it out. The small amount of alcohol will not harm fish or biological processes in your pond.

After one or two years of operation, you will possibly notice a sudden drop in air bubbles. This is a sign the compressor needs new piston cup or vanes. Rebuild kits are available to restore like-new performance. Be sure to keep the air filter clean. Replacement filters are available. Contact your supplier for repair kits and filter replacements.

Troubleshooting

Compressor Troubleshooting

Low Pressure	High Pressure	Compressor Overheating	Excess Noise	Cause and Solution
•		•		Dirty air filter, clean or replace
	•			Valves closed too much, open valves
•			•	Worn piston cup, rebuild compressor
	•			Plugged/frozen tubing, inspect and repair
•			•	Leaky tubing or check valve, inspect and repair
Compressor will not start		•		Wrong voltage, check power source
Compressor will not start		•		Miswired electrical components, check wiring

Diffuser Troubleshooting

Low Air Flow	High Air Flow	Uneven Air Flow	Burping Bubbles	Cause and Solution
•		•		Leak in system, check connections and repair
•	•	•		Manifold not set correctly, adjust placement
			•	Damaged or torn membrane, replace
•				Compressor issue, see above

Limited Warranty

This limited warranty is against any mechanical or material defects for a period of (see below) from the date of purchase. Warranty only covers properly installed and maintained units.

Compressors carry a two year warranty - covered by manufacturer's warranty (consult owners manual for full details).

Air diffusers have a five year warranty. Use only in fresh water, **NOT for brackish or salt water.**

Weighted tubing has a five year warranty.

The limited warranty does not cover normal wear and tear, nor any deterioration suffered through overloading, improper use, negligence or accident. Similarly, any modification made by the purchaser to the product will cause the warranty to be null and void.

All returned items will be inspected to determine cause of failure before warranty is approved.

Warranty does not cover any cost associated with the installation or removal of the product subject to warranty claim.

Contact AquaTec at 1300 AQUATEC for all warranty claims. No warranty claims will be honored without the original invoice or receipt.

Ensure the product is properly packaged and insured for the replacement value. Damage due to improper packaging is the responsibility of the sender.

The manufacturer or supplier shall not be held liable for any damages caused by defective components or materials of this product; or for loss incurred because of the interruption of service; or any consequential/incidental damages and expenses arising from the production, sale, use or misuse of this product.

The manufacturer or supplier shall not be held liable for any loss of fish, plants or any other livestock as a result of any failure or defect of this product.



FOR GARDENS THAT GO THE EXTRA YARD

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SubAir Rocking Piston Compressor

Installation and Service Manual

for ¼ hp, ½ hp and ¾ hp Compressors



This instruction manual explains the product operations and gives important precautions regarding its safe use. Please read and follow these instructions to experience years of trouble free service on these top of the line units.

To avoid accident, do not use the compressor in any way other than as described in this instruction manual especially when you see “WARNING”. After reading this instruction manual, keep it nearby as a reference in case questions arise during use.

PRODUCT USE CRITERIA AND PURPOSE

- Pump only clean, dry air
- Protect unit from dirt and moisture, avoid excessively dusty locations
- Do not pump flammable or explosive gases or use in an atmosphere that contains such gases
- Protect all surrounding items from exhaust air, this exhaust air can become very hot
- Corrosive gases and particulate material will damage unit — water vapor, oil-based contaminants or other liquids must be filtered out
- Product performance changes when using at high altitudes
- This pump is oil-less and requires NO lubrication

SAFETY

Your safety and the safety of others is extremely important. We have provided many important safety messages in this manual and on your compressor. Always read and obey all safety messages.



This is the safety alert symbol. This symbol alerts you to hazards that can kill or hurt you and others. The safety alert symbol and the words “Danger” and “Warning” will precede all safety messages. These words mean:



Danger - You will be killed or seriously injured if you don't follow instructions.



Warning - You can be killed or seriously injured if you don't follow instructions.

All safety messages will identify the hazard, tell you how to reduce the chance of injury and tell you what can happen if the safety instructions are not followed.

**Please read this manual completely before installing and using this compressor.
Save for future reference and keep in the vicinity of the compressor.**

INSTALLATION



WARNING! Electrical Shock Hazard. Disconnect electrical power at the circuit breaker or fuse box before installing this product. Install this product where it will not come into contact with water or other liquids. Install this product where it will be weather protected. Electrically ground this product. Failure to follow these instructions can result in death, fire or electrical shock.

Correct installation is the responsibility of installer. Make sure of proper installation conditions and that clearances do not block air flow.



WARNING! Blocking air flow over the product in any way can cause product to overheat.

MOUNTING

Compressor may be installed in any orientation. Mounting the product to a stable, rigid operating surface and using shock mounts will reduce noise and vibration.

PLUMBING

Remove plugs from the IN and OUT ports. Connect with pipe and fittings that are the same size or larger than threaded ports. Be sure to connect the intake and exhaust plumbing to the correct inlet and outlet ports. Ports will not support plumbing.

ACCESSORIES

The compressor's external intake will provide adequate filtration in most applications. Check filters periodically and replace when necessary. Avoid excessively dusty locations. Install relief valves and gauges at inlet, outlet or both, to monitor performance. Check valves may be required to prevent back flow through pump.

MOTOR CONTROL

It is your responsibility to contact a qualified electrician and assure that the electrical installation is adequate and in conformance with all national and local codes/ordinances. The metal capacitor must be grounded.

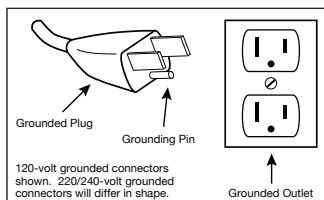
The wiring diagram supplied with the compressor provides required electrical information. Check that power source is correct to properly operate the dual-voltage motors.



WARNING! Electrical Shock Hazard. This product must be properly grounded. Do not modify the plug provided. If it will not fit the outlet, have the proper outlet installed by a qualified electrician. If repair or replacement of the cord or plug is necessary, do not connect the grounding wire to either flat blade terminal. Check the condition of the power supply wiring. Do not permanently connect this product to wiring that is not in good condition or is inadequate for the requirements of this product. Failure to follow these instructions can result in death, fire or electrical shock.

Model with a power supply cord: This product must be grounded. For either 120 volt or 220/240 volt circuits connect power supply cord grounding plug to a matching grounded outlet. Do not use adapter. See diagram at right.

In the event of an electrical short circuit, grounding reduces the risk of electric shock by providing an escape



wire for the electric current. This compressor may be equipped with a power supply cord having a grounding wire with an appropriate grounding plug. The plug must be plugged into an outlet that is properly installed and grounded in accordance with all local codes and ordinances.

Check with a qualified electrician or serviceman if the grounding instructions are not completely understood, or if you are not sure whether the product is properly grounded. Do not modify the plug provided. If it will not fit the outlet, have the proper outlet installed by a qualified electrician.

Model that is permanently wired: This compressor must be connected to a grounded, metallic, permanent wiring system, or an equipment grounding terminal or lead on the compressor.


Power supply wiring must conform to all required safety codes and be installed by a qualified person. Check that all supply voltage agrees with that listed on compressor name plate.

Extension Cords: Use only a 3-wire extension cord that has a 3-blade grounding plug. Connect extension cord plug to a matching 3-slot receptacle. Do not use an adapter. Make sure your extension cord is in good condition. Check that the wire gauge of the extension cord is the correct size wire to carry the current this compressor will draw.

Do not exceed 100' with minimum 12 gauge wire (only up to 10 amps) for extension cords.

An undersized cord is a potential fire hazard and will cause a drop in line voltage resulting in loss of power, causing compressor to overheat. If in doubt, use the next heavier gauge cord. The smaller the gauge number, the heavier the wire gauge.



OPERATION


 **WARNING!** Injury Hazard. Install proper safety guards as needed. Keep fingers and objects away from openings and rotating parts. When provided, motor terminal covers must be in place for safe operation. Product surfaces become very hot during operation, allow surfaces to cool before handling. Air stream from product may contain solid or liquid material that can result in eye or skin damage, wear proper eye protection. Wear hearing protection. Failure to follow these instructions can result in burns, eye injury, or other serious injury.

It is your responsibility to operate this compressor at recommended pressures or vacuum duties and room ambient temperatures.

START UP: If motor fails to start or slows down significantly under load, shut off and disconnect from power supply. Check that the supply voltage is correct and verify motor is turning in the proper direction. Check plug, cord and switch for damage. If the thermal protection switch has tripped, the motor can restart after cooling.

MAINTENANCE

  **WARNING!** Electrical Shock Hazard. Disconnect electrical power supply before performing maintenance. Failure to follow these instructions can result in death, fire, or electrical shock.

 **WARNING!** Injury Hazard. Product surfaces become very hot during operation, allow surfaces to cool before handling. Air stream from product may contain solid or liquid material that can result in eye or skin damage, wear proper eye protection. Wear hearing protection. Failure to follow these instructions can result in burns, eye injury, or other serious injury.

It is your responsibility to:

- Regularly inspect and make necessary repairs to compressor in order to maintain proper operation
- Make sure that pressure is released from compressor before starting maintenance

Check intake and exhaust filters after first 500 hours of operation. Clean filters and determine how frequently filters should be checked during future operation. This one procedure will help to assure the product's performance and service life.

- 1 Disconnect electrical power supply to unit
- 2 Vent all air lines
- 3 Remove filter cover
- 4 Check filter felt. Replace felt if it is covered with contamination or shows signs of increasing differential pressure
- 5 Reinstall felt and filter cover

Check that all external accessories such as relief valves and gauges are attached to cover and are not damaged before re-operating product.

SHUTDOWN PROCEDURES

It is your responsibility to follow proper shutdown procedures to prevent compressor damage. **Never add oil to this oil-less compressor.**

Proper shutdown procedures must be followed to prevent pump damage. Failure to do so may result in premature pump failure. Compressors are constructed of ferrous metals or aluminum which are subject to rust and corrosion when pumping considerable vapors such as water. Follow the steps below to assure correct storage and shutdown between operating periods.

- 1 Disconnect plumbing
- 2 Operate compressor for at least 5 minutes without plumbing
- 3 Run at maximum vacuum for 10 to 15 minutes
- 4 Repeat step 2
- 5 Disconnect power supply
- 6 Plug open ports to prevent dirt or other contaminants from entering compressor

1/4HP & 1/2HP REPAIR KIT INSTALLATION



WARNING! Electrical Shock Hazard. Disconnect electrical power supply before installing repair kit. If product is hard wired into system, disconnect electrical power at the circuit breaker or fuse box before installing repair kit. Vent all air lines to release pressure or vacuum. Failure to follow these instructions can result in death, fire, or electrical shock.

Supplier and manufacturer will not guarantee field-rebuilt compressor performance. For performance guarantee, the compressor must be returned to supplier.

Repair kit contents may vary.

- 1 Remove screws from the head of compressor using T25 Torx driver, remove the head.
- 2 Mark the orientation of head plate(s) and remove.
- 3 Remove old cylinders and discard.
- 4 Remove screws from cup retainer plate with T15 Torx driver. Discard old cups and retainer screws.
- 5 Set new cylinder(s) on piston(s).

(continued on next page)

- 6 Remove new piston cup(s) from protective cardboard packaging. Set new piston cups onto retainer plate, these parts will sit flat against each other.
- 7 Press retainer plate with piston cup into cylinder all the way to the piston. The cylinder can be rotated to align the screw holes. Apply thread locking compound (Loctite® 222) to retainer screws, torque screws to 10-13 inch-pounds.
- 8 Remove the cylinder o-ring(s) from the bottom of valve plate(s) and install new o-rings.
- 9 Inspect leaf valves for damage or wear. **NOTE:** There is one intentionally “bent” leaf valve per set. If leaf valves need to be replaced, a complete leaf valve plate can be ordered. The screws holding the leaf valves are susceptible to breaking which makes individual leaf valve replacement very difficult. Complete valve plate assemblies for 1/4hp and 1/2hp units are available.
- 10 Check that orientation of the valve plate(s) with ports is correct and place over cylinders.
- 11 Remove old and install new head o-rings in the o-ring grooves on top of valve plate.
- 12 Reinstall head over valve plate(s) checking that orientation with ports is correct. Torque screws to 50 inch-pounds.

Check that all external accessories such as relief valves and gauges are not damaged before re-operating product.

TROUBLESHOOTING - ALL UNITS:

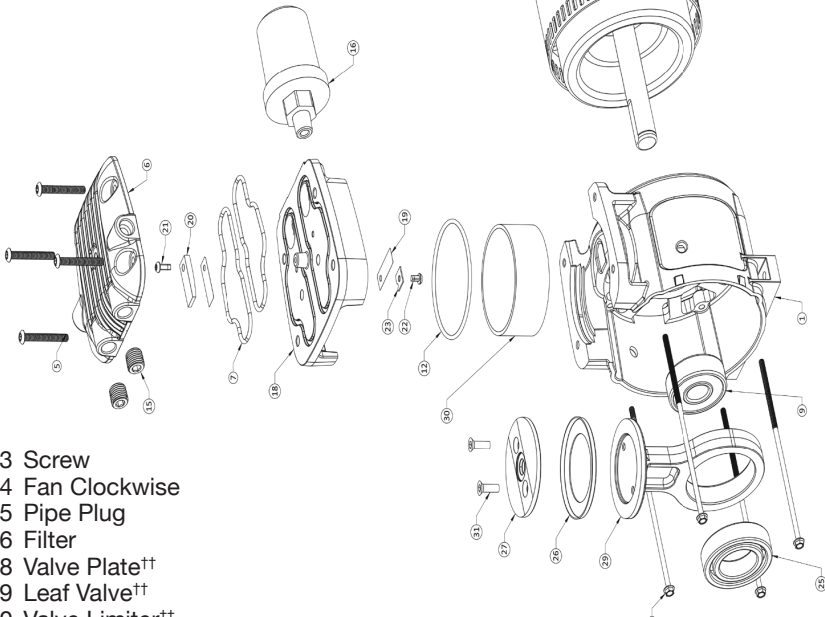
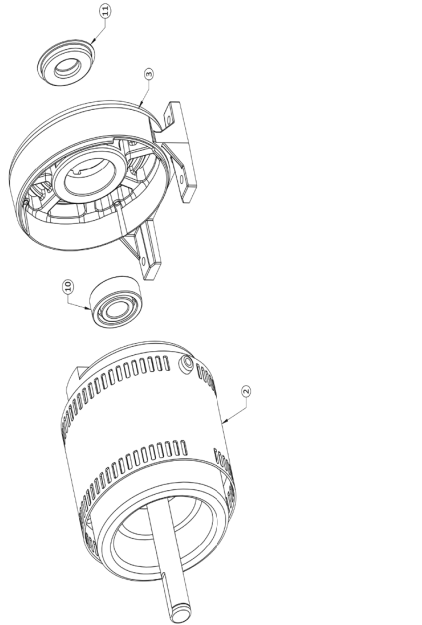
<i>Low Pressure</i>	<i>High Pressure</i>	<i>Excess Noise</i>	<i>Over Heating</i>	<i>Won't Start</i>	<i>Possible cause and solution</i>
x			x	x	Filter dirty Clean or replace
x	x		x	x	Dirty muffler Clean or replace
x					Dirty valves Clean or replace
x					Bent/damaged valves Replace
x		x			Damaged/worn cup Replace
x		x			Leaky hose Fix or replace
x				x	Leaky check valve Fix or replace
	x		x	x	Plugged vacuum or pressure line Fix or replace
			x	x	Low voltage Inspect power supply*
x					Leaky relief valve Fix or replace
			x	x	Motor not wired correctly. Check wiring diagram and line voltage*

* To troubleshoot low voltage, unit can be tried in an outlet closer to the breaker panel. Voltage drop in longer electrical runs can cause low voltage.

EXPLODED VIEWS & PARTS

1/4hp Models

- # Description
- 1 Body***
- 2 Motor***
- 3 End Belt***
- 4 Fan Cover***
- 5 Head Screws
- 6 Head
- 7 Head O-ring†
- 8 Motor Bolt***
- 9 Bearing***
- 10 Bearing***
- 11 End Belt Cap
- 12 Cylinder O-ring†

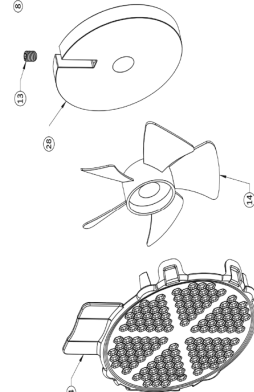


- 13 Screw
- 14 Fan Clockwise
- 15 Pipe Plug
- 16 Filter
- 18 Valve Plate††
- 19 Leaf Valve††
- 20 Valve Limiter††
- 21 Valve Screw††
- 22 Valve Screw††
- 23 Valve Retainer††
- 25 Bearing***
- 26 Cup†
- 27 Retainer Plate***
- 28 Eccentric***
- 29 Rod***
- 30 Cylinder†
- 31 Retainer Screw†

***Not available for purchase

†Items included in 1/4hp repair kits

††Items included with 1/4hp valve plate assembly



EXPLODED VIEWS & PARTS

1/2hp Models

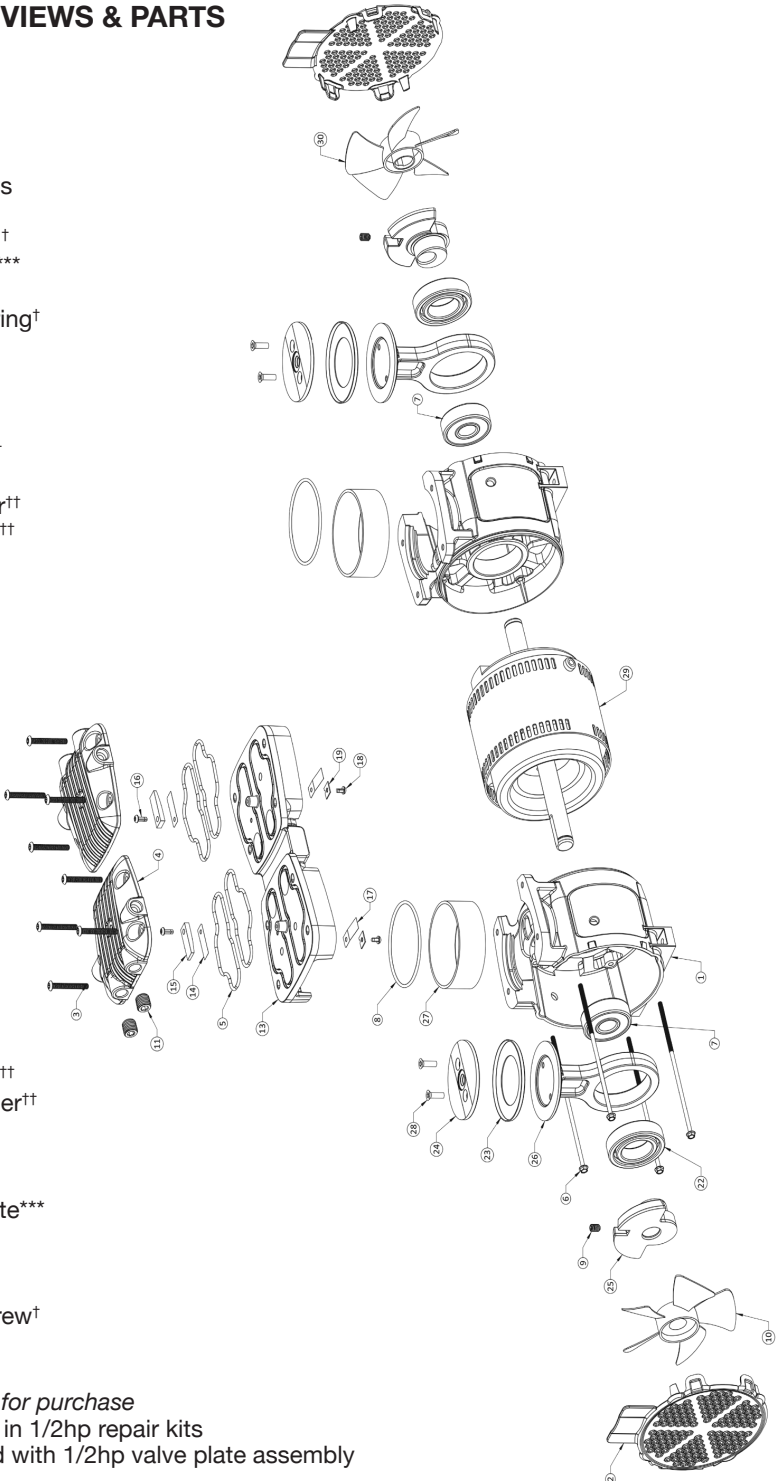
- # Description
- 1 Body***
- 2 Fan Cover
- 3 Head Screws
- 4 Head
- 5 Head O-ring†
- 6 Motor Bolts***
- 7 Bearing***
- 8 Cylinder O-ring†
- 9 Set Screw
- 10 Fan
- 11 Pipe Plug
- 13 Valve Plate††
- 14 Leaf Valve††
- 15 Valve Limiter††
- 16 Valve Screw††

- 17 Leaf Valve††
- 18 Valve Screw††
- 19 Valve Retainer††
- 20 Plug
- 22 Bearing***
- 23 Cup†
- 24 Retainer Plate***
- 25 Eccentric
- 26 Rod
- 27 Cylinder†
- 28 Retainer Screw†
- 29 Motor***
- 30 Fan

***Not available for purchase

†Items included in 1/2hp repair kits

††Items included with 1/2hp valve plate assembly



3/4HP REPAIR KIT INSTALLATION



WARNING! Electrical Shock Hazard. Disconnect electrical power supply before installing repair kit. If product is hard wired into system, disconnect electrical power at the circuit breaker or fuse box before installing repair kit. Vent all air lines to release pressure or vacuum. Failure to follow these instructions can result in death, fire, or electrical shock.

Supplier and manufacturer will not guarantee field-rebuilt compressor performance. For performance guarantee, the compressor must be returned to supplier.

Repair kit contents may vary.

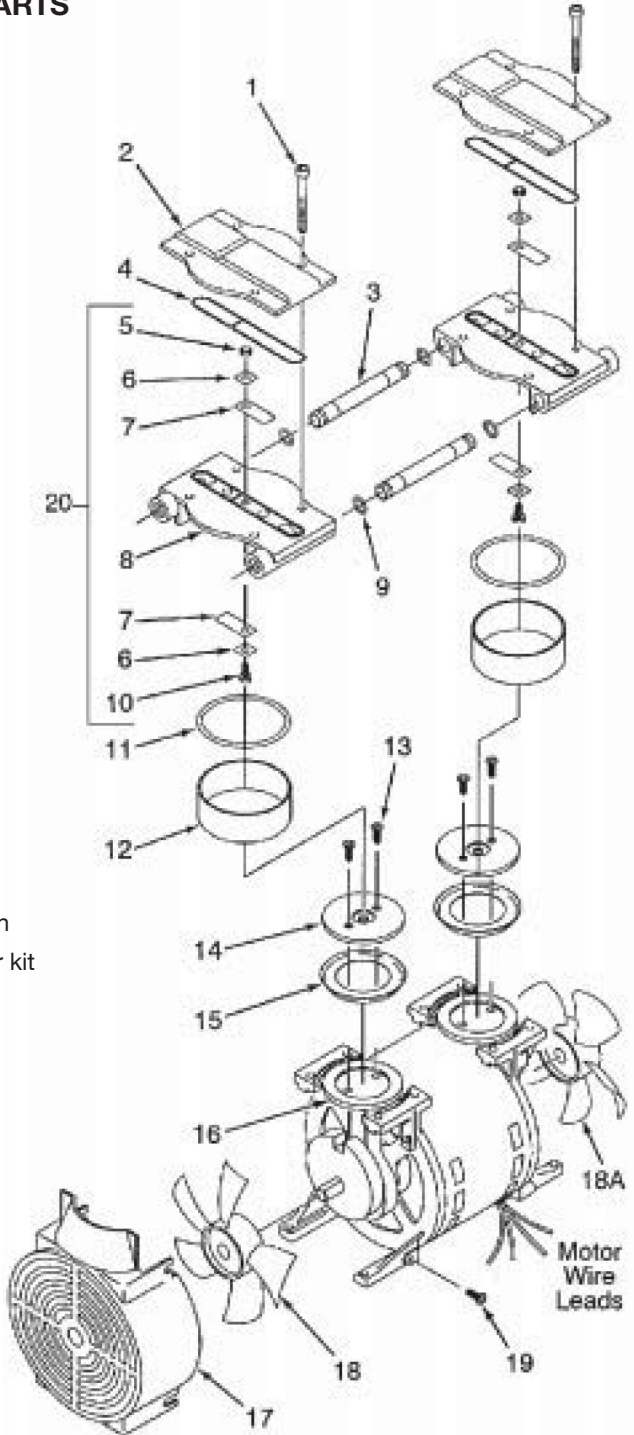
- 1 Disconnect electrical power to compressor.
- 2 Disconnect air supply and vent all air lines to release pressure or vacuum.
- 3 Mark the orientation of the ports so cover will be reinstalled correctly.
- 4 Remove screws from the head of the pump, remove the head of the pump.
- 5 Mark orientation of valve plate(s), remove valve plate assemblies.
- 6 Remove and discard old cups(s), retainer screws, cylinder O-ring(s), head O-ring(s), and inspect valves and valve retainers. If leaf valves need to be replaced, a complete leaf valve plate is included (step 12). The screws holding the leaf valves are susceptible to breaking which makes individual leaf valve replacement very difficult.
- 7 Install new cup(s) on rod(s) facing up.
- 8 Reinstall retainer plates.
- 9 Apply a thread locking compound (Loctite 222) to retainer screws, torque screws to 34-38 in. lbs.
- 10 Carefully install cylinder(s) over cup(s) at an angle to avoid damaging cup(s).
- 11 Clean valve plates with water based solvent, take care to not scratch valve seats.
- 12 Reinstall valve plate assembly. If necessary, replace complete valve plate assembly.
- 14 Install cylinder O-ring(s) in the bottom of valve plate(s).
- 15 Check that the orientation of valve plate(s) with the ports is correct.
- 16 Install head O-rings in the O-ring grooves on top of valve plate.
- 17 Reinstall head over valve plate(s) checking that orientation with ports is correct.
- 18 Torque screws to 50 in. lbs.

Check that all external accessories such as relief valves and gauges are not damaged before re-operating product.

EXPLODED VIEWS & PARTS

3/4hp Models

- 1 Cap Screws
- 2 Head
- 4 Head O-Ring†
- 5 Hex Nut
- 6 Valve Retainer†
- 7 Leaf Valve†
- 8 Valve Plate
- 9 Tube O-Ring†
- 10 Valve Screw
- 11 Cylinder O-Ring†
- 12 Cylinder†
- 13 Retainer Screw†
- 14 Retainer Plate
- 15 Piston Cup†
- 16 Rod Assembly
- 17 Shroud
- 18 Fan
- 19 Shroud Screw
- 20 Valve Plate Assembly



Filter and service kit not shown

†Items included in 3/4hp repair kit

Limited Warranty

This limited warranty is against any mechanical or material defects for a period of two years from the date of purchase. Warranty only covers properly installed and maintained units.

Use only in fresh water, **NOT for brackish or salt water.**

The limited warranty does not cover normal wear and tear, nor any deterioration suffered through overloading, improper use, negligence or accident. Similarly, any modification made by the purchaser to the product will cause the warranty to be null and void.

All returned items will be inspected to determine cause of failure before warranty is approved.

Warranty does not cover any cost associated with the installation or removal of the product subject to warranty claim.

Contact AquaTec at 1300 AQUATEC for all warranty claims. No warranty claims will be honored without the original invoice or receipt.

Ensure the product is properly packaged and insured for the replacement value. Damage due to improper packaging is the responsibility of the sender.

The manufacturer or supplier shall not be held liable for any damages caused by defective components or materials of this product; or for loss incurred because of the interruption of service; or any consequential/incidental damages and expenses arising from the production, sale, use or misuse of this product.

The manufacturer or supplier shall not be held liable for any loss of fish, plants or any other livestock as a result of any failure or defect of this product.



FOR GARDENS THAT GO THE EXTRA YARD

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