



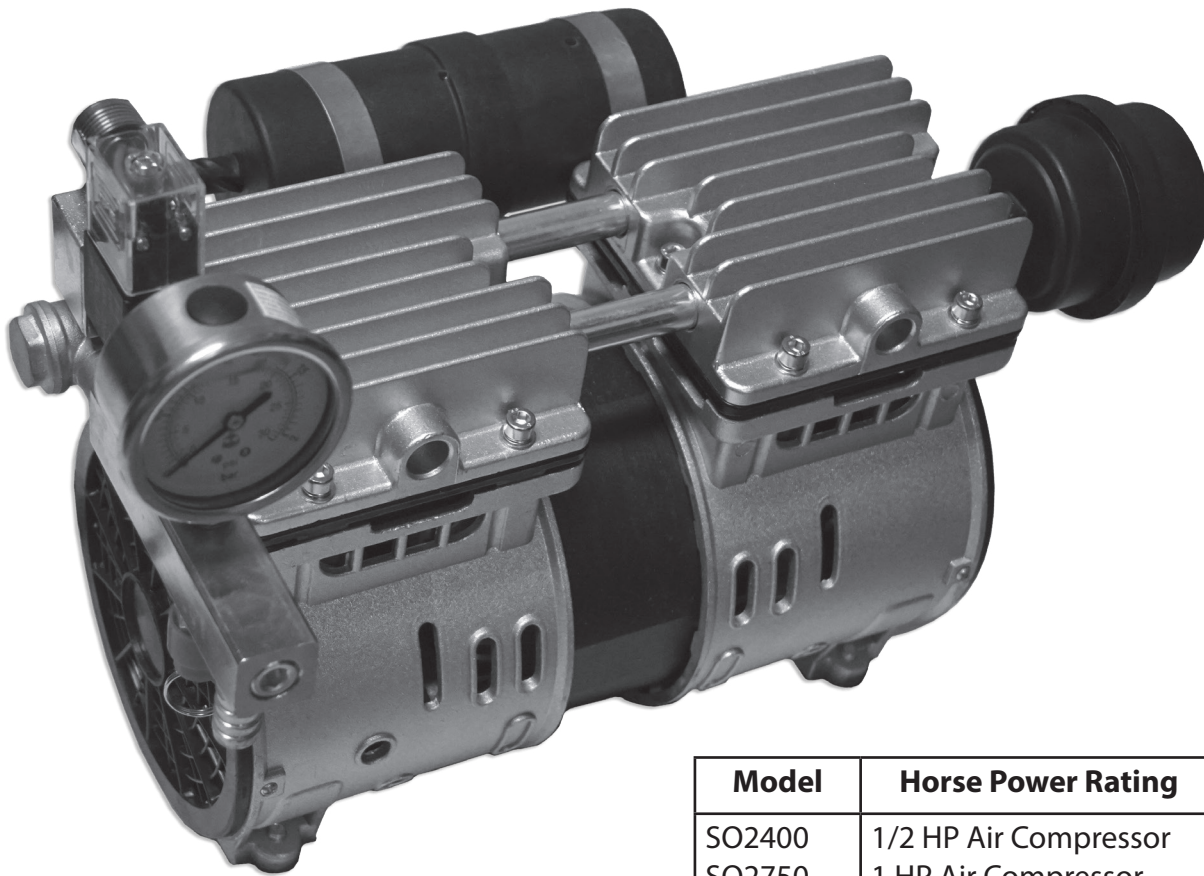
Savio₂ Air Compressors

Operating Manual & Specifications

Read the entire instructions prior to assembling and operating

Warning: Not recommended for pumping acid, base, organic vapors or explosive gases. Be sure to properly identify intake and discharge before using pump.

Savio₂ is Savio Engineering's newest large aeration line. Savio₂ Aeration primarily helps break up thermocline that can develop over time in a static pond. In the Savio₂ Aeration Systems, air is forced through our rubber membrane weighted disc diffusers and circulates the water to promote higher oxygen levels throughout the pond and helps prevent fish kills from pond turnover. Savio₂ creates a healthier environment during the hot summer months and allows your fish to stay in deeper sections of your pond. During winter months, Savio₂ keeps a hole in the ice for natural pond gasses to escape.

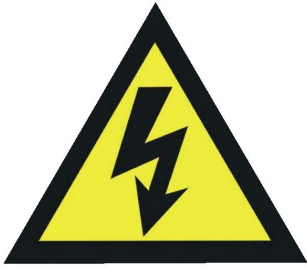


Model	Horse Power Rating
SO2400	1/2 HP Air Compressor
SO2750	1 HP Air Compressor
SO21100	1 1/2 HP Air Compressor

Read entire instructions prior to assembly and operation

OPERATING MANUAL Savio₂ Air Compressors

Warnings



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.
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- Electrically ground this product.

Your safety and the safety of others is extremely important. Failure to follow these instructions can result in death, fire, or electrical shock.

We have provided many important safety messages in this manual and on your product. Always read and obey all safety messages.

Correct installation is your responsibility. Make sure you have the proper installation conditions, and that installation conditions and installation clearances do not block air flow. Blocking air flow over the product in any way can cause the product to overheat.

Operation Criteria

- Pump only clean, dry air.
- Operate at 32°F- 104°F (0°C- 40°C).
- Protect unit from dirt and moisture.
- 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.
- Consult your Distributor/ Representative before using at high altitudes.
- This pump is oil-less and requires NO lubrication.
- Do NOT use this product with an extension cord. Doing so will result in a void of the warranty.
- Do NOT "hard-wire" install this product. Doing so will result in a void of the warranty.

Installation

Mounting

This product can 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 the product's threaded ports. Be sure to connect the intake and exhaust plumbing to the correct inlet and outlet ports.

Installation

Accessories

This product has an external intake and filtration. Check filter periodically and replace when necessary. Consult your Distributors/Representative for additional filter recommendations.

Install relief valve(s) at inlet or outlet or both, to monitor performance. Check Valves may be required to prevent back streaming through the 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 and ordinances. The metal capacitor must be grounded.

Determine the correct overload setting required to protect the motor. Select fuses, motor protective switches or thermal protective switches to provide protection. Fuses act as short circuit protection for the motor, not as protection against overload. Incoming line fuses must be able to withstand the motor's starting current. Motor starters with thermal magnetic overload or circuit breakers protect motor from overload or reduced voltage conditions.

Electrical Connection

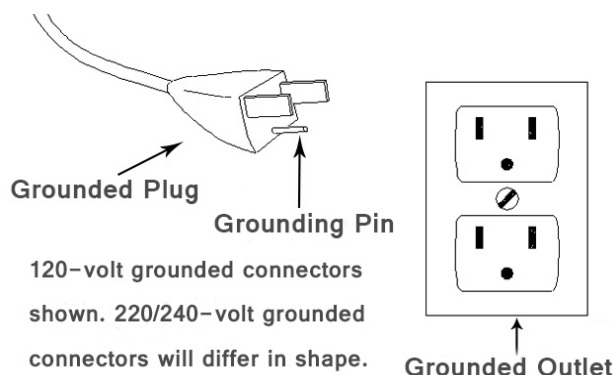
Do not modify the plug provided. If it will not fit the outlet, have the proper outlet installed by a qualified electrician. The plug must be plugged into an outlet that is properly installed and grounded in accordance with all local codes and ordinances.

If repair or replacement of the cord or plug is necessary, do not connect the grounding wire to either flat blade terminal. The wire with insulation that is green or green with yellow stripes is the grounding wire.

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.

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. It will not fit the outlet, have the proper outlet installed by a qualified electrician.



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 an adapter. (See diagram.)

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

Operation

Warning

- 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 product 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. Sound level from motor may exceed 70 dB(A).
- Do not start against a vacuum or pressure load.
- Failure to follow these instructions can result in burns, eye injury, or other serious injury.

Start Up

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

Maintenance

Disconnect electrical power supply cord before performing maintenance on this product. If product is hard wired into system, disconnect electrical power at the circuit breaker or fuse box, before performing maintenance on this product.

Product surfaces become very hot during operation, allow product 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. Clean this product in a well-ventilated area.

It is your responsibility to:

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

Failure to follow these instructions can result in burns, eye injury, or other serious injury.

Check intake filter after first 500 hours of operation. Clean filter and determine how frequently filter should be checked during future operation to assure the product's performance.

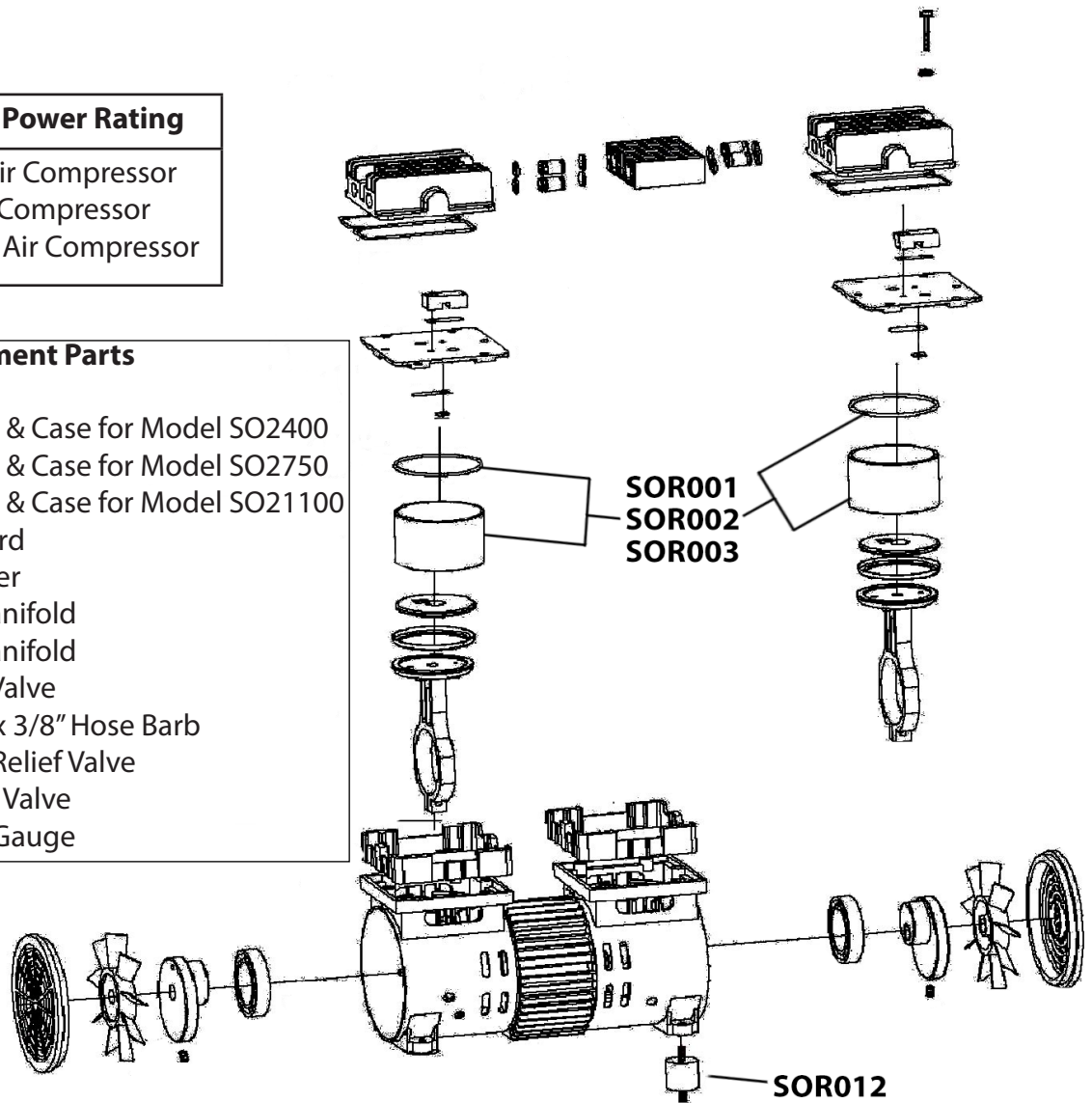
1. Disconnect electrical power supply to unit.
2. Vent all air lines.
3. Remove filter cover.
4. Check filter felt. Replace felt if it is covered with contamination or shows signs of increasing differential pressure.
5. Re-install felt and filter cover.

Compressor Parts Diagram

Model	Horse Power Rating
SO2400	1/2 HP Air Compressor
SO2750	1 HP Air Compressor
SO21100	1 1/2 HP Air Compressor

Not Pictured Replacement Parts

- **SOR005** - Capacitor & Case for Model SO2400
- **SOR006** - Capacitor & Case for Model SO2750
- **SOR007** - Capacitor & Case for Model SO21100
- **SOR010** - Power Cord
- **SOR011** - Air Silencer
- **SOR015** - 3-Way Manifold
- **SOR016** - 4-Way Manifold
- **SOR017** - Shut Off Valve
- **SOR018** - 1/4" NPT x 3/8" Hose Barb
- **SOR020** - Pressure Relief Valve
- **SOR021** - Magnetic Valve
- **SOR022** - Pressure Gauge



Cabinet Enclosures Part Numbers (Optional)

- **SOR035** - Base Cabinet Enclosure for Models SO2400/SO2750
- **SOR036** - Base Cabinet Enclosure for Model SO21100
- **SOR037** - Wall/Post Mount Cabinet Enclosure for Models SO2400/SO2750
- **SOR023** - 30" Heat Resistant Tubing
- **SOR024** - Cooling Fan
- **SOR030** - Isolation Base for Models SO2400/SO2750
- **SOR031** - Isolation Base for Models SO21100



SOR035 Pictured
*not included

Service & Replacement Parts

Part Number	Item Description
SOR001	SO2400 Rebuild Kit - Sleeves, Rings
SOR002	SO2750 Rebuild Kit - Sleeves, Rings
SOR003	SO21100 Rebuild Kit - Sleeves, Rings
SOR005	SO2400 Capacitor & Case
SOR006	SO2750 Capacitor & Case
SOR007	SO21100 Capacitor & Case
SOR010	Power Cord
SOR011	Air Silencer
SOR012	Set of 4 Shock Absorbing Feet
SOR015	3-Way Outlet Manifold
SOR016	4-Way Outlet Manifold
SOR017	Shut Off Valve - Each
SOR018	1/4" NPT x 3/8" Hose Barb - Each
SOR020	Pressure Relief Valve
SOR021	Magnetic Valve
SOR022	Pressure Gauge
SOR023	30" Heat Resistant Tubing
SOR024	Cooling Fan
SOR030	SO2400 & SO2750 Isolation Base
SOR031	SO21100 Isolation Base
SOR035	SO2400 & SO2750 Base Cabinet Enclosure
SOR036	SO21100 Base Cabinet Enclosure
SOR037	SO2400 & SO2750 Wall/Post Mount Enclosure

Warranty

Savio Engineering provides a manufacturer's limited warranty of 2 years from original purchase date. Warranty does not cover consumables or wear items. Warranty is non-transferable. Within the warranty period, Savio will repair materials with manufacturing deficiencies at their discretion.

This warranty does not cover and faults caused by improper use, installation and handling of the device or as a result of wear and tear. Savio Engineering does not assume liability for consequential damage caused by the failure of the product.

Removal of cord or ground-pin voids warranty. Warrant is void if the product is not used in accordance with instructions. For warranty claims, please contact your dealer or place of purchase.

Innovative, precision-engineered solutions

Advanced water gardening products for healthy, clean living ponds.

