

Pond Pro

CA-SERIES COMPRESSOR INSTRUCTION MANUAL

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 CAMROSE, AB

 PONDPRO.CA

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PACKAGE INCLUDES

CA-series compressor
Pressure release valve
Hose barb
Anti-vibration rubber feet & nuts
Filter assembly & filter

SAFETY INFORMATION

Work Area Safety

Ensure your work area is clean and well-lit. Make sure floors are not slippery. Protect the unit from dust, dirt, and moisture.

The compressor must always be secured on a wall-mounted, fan-cooled shelf or in a fan-cooled post-mount cabinet.

Keep the compressor at least 18 inches away from walls or objects that could restrict cooling air flow.

Do not pump flammable or explosive gases or operate compressor in an atmosphere containing these types of gases.

This compressor is not equipped for and should not be used to supply breathing air.

This compressor is designed for air only. Do not allow corrosive gases or particulate material to enter the compressor. Water vapor, oil-based contaminants, or other liquids must be filtered out.

To prevent overheating, use forced fan cooling in a ventilated building. Ambient temperature should not exceed 40°C (104°F). For operation above this temperature limit, consult factory.

Close supervision is necessary when any appliance is used by or near children.

Always disconnect the compressor and power supply before making adjustments, when servicing, or when not in use.

SAFETY

INFORMATION

Personal Safety

Keep proper footing and balance at all times during operation.
Do not use on a ladder or unstable support.

Operation of this compressor can result in foreign objects being thrown into your eyes, which can result in severe eye damage. Always wear safety glasses.

Always use safety equipment – including safety glasses, non-skid safety shoes, a hard hat and hearing protection.

Stay alert while operating. Do not operate while tired or under the influence of drugs, alcohol, or medication.

Do not wear loose clothing or jewelry. Contain long hair. Keep hair, clothing, gloves, etc. away from moving parts as they can become caught in moving parts.

Never touch exposed metal parts on compressor during or immediately after operation as compressor can be hot and will remain so for several minutes after operation. Do not touch, move, or attempt maintenance until compressor has been allowed to cool.

Moving The Air Compressor

Always grasp compressor securely around motor. Always ensure compressor is non-operational, unplugged, and cool before handling.

When location of use is reached, slowly lower compressor into position. Always use and store compressor in a horizontal position resting upright on its feet.

Ensure that the compressor is secured when transporting in a vehicle, trailer, etc. Damage may occur if not secured properly.

Ensure proper footing and use caution when carrying compressor so not to lose balance.

SAFETY

INFORMATION

Air Compressor and Pneumatic Tool Safety

Ensure the compressor is used in a clean environment. Dust and contaminants may cause damage to the unit.

If the compressor is connected to a circuit protected by fuses, use time delay fuses.

Ensure any hoses are free of obstructions or snags. Entangled or snagged hoses can become damaged or cause loss of balance or footing.

Never leave an air tool with air hose attached.

Do not operate compressor if it does not contain a legible warning label.

Do not use compressor, tool, or a hose that is leaking air or not functioning as intended.

Do not attempt to pull or carry compressor by hose or cord.

Your tool may require more air than compressor is capable of providing. Always read manufacturer's specifications.

Never direct a jet of compressed air towards body, other people or animals. Risk of injury.

If spraying, keep compressors as far away from spraying area as possible – at least 15 feet away from spraying area and all explosive vapors.

Protect your lungs — Wear a dust mask when needed.

Do not use compressor to spray chemicals. Toxic fumes may cause lung damage. A respirator may be necessary in dusty environments or when spraying paint.

This compressor is equipped with a thermal overload protector which will shut off motor if it overheats. Disconnect power to compressor if this happens. The compressor will restart once motor has cooled.

Do not attempt to modify the compressor or create accessories. Any modification is misuse and could result in serious personal injury.

Risk of bursting. Do not use at a pressure greater than the maximum rated pressure of compressor and an attachments.

Risk of electrical shock. Keep compressor dry and store indoors.

SAFETY

INFORMATION

Extension Cords

Use of an extension cord is not recommended. Use of a longer air hose is preferred as the compressor will run better.

Use only 3-wire extension cords that have 3-prong grounding plugs and 3-pole receptacles. When using the compressor at a considerable distance from power source, use an extension cord heavy enough to carry the current that compressor will draw. An undersized extension cord will cause a drop in line voltage, resulting in loss of power and could cause the motor to overheat.

Use chart provided below to determine minimum wire size required for an extension cord. Only round jacketed cords with a UL listing should be used.

Cord Length	Wire Size <small>{American Wire Gauge}</small>
25 ft	18
50 ft	14

**DO NOT USE AN
EXTENSION CORD
LONGER THAN 50 FT**

When operating the compressor outdoors, use an extension cord marked "W-A" or "W". These cords are rated for outdoor use and reduce the risk of electric shock.

When using an extension cord, keep it clear of the working area. Position cord so that it will not get caught on any obstructions while you are working. Failure to do so can result in serious personal injury.

Check extension cords before each use. If damaged, replace immediately. Never use compressor with a damaged cord— the damaged area of the cord could cause electrical shock.

SAFETY

INFORMATION

Electrical Connections

This compressor is powered by an electric motor. This is a dual-voltage motor, specified 120V or 240V as the customer has requested. Ensure that it is connected appropriately. The 240V should be wired by an electrician.

Do not operate this compressor on a direct current (DC).

If compressor does not operate when plugged into an outlet, check the power supply.

Improperly connecting compressor grounding conductor can result in a risk of electrical shock.

Do not expose compressor to rain or wet conditions. Water entering compressor will increase the risk of electric shock.

Speed and Wiring

The no load speed of this compressor is approximately 1750 rpm. This speed is not constant and will decrease under load and/or with a lower voltage.

A power line intended only for lights cannot properly support a compressor. Wire that is heavy enough for a short distance is too light for a greater distance. A line that can support one compressor may not be able to support multiple devices.

Grounding Instructions

This compressor must be grounded. In the event of an electrical short circuit, grounding reduces risk of electric shock by providing an escape wire for the electric current. This compressor is equipped with a 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 service personnel if you are unsure as to whether the compressor is properly grounded.

Do not modify the plug provided. If it does not fit the outlet, have a proper outlet installed by a qualified electrician.

SAFETY

INFORMATION

Improper installation of grounding plug may result in a risk of electric shock. When repair or replacement of cord or plug is required, do not connect the grounding wire to either flat blade terminal. The insulated wire with an outer surface that is green (with or without yellow stripes) is the grounding wire.



If this compressor is for use on a 120 volt circuit and has a grounding plug similar to that shown. Only connect compressor to an outlet having the same configuration as the plug.

Do not use an adapter with this compressor.

BEFORE

OPERATING

Specifications

Maximum Working Pressure	————	50 psig
Pressure Restart Capability	————	0 psig (all pressure must be released from outlet air line to start the compressor. Pressure restart capability is optional with this compressor.)
Air Delivery	————	Refer to airflow data (p. 10)
Lubrication	————	None — oil free
Electrical Input	————	Dual voltage motors 120V/240V, 60Hz, Single Phase, AC. Refer to amp data (p. 10)
Min. Circuit Requirement	————	15A
Net Weight	————	18 lbs.
Duty Cycle	————	100%

Air Compressor Placement

Place compressor in an upright, level position on a stable, rigid surface for proper operation.

Place compressor in a clean, dry, well-ventilated area.

The compressor must always be secured on a wall-mounted, fan-cooled shelf or in a fan-cooled post-mount cabinet.

Use forced fan cooling in a ventilated building to ensure ambient room temperature does not exceed 40°C (104°F). This will prevent overheating.

Compressor must be positioned at least 18 inches away from any obstructions that prevent interference with cooling air flow.

Locate compressor as close to main power supply as possible to avoid using long lengths of electrical wiring or extension cords.

The Inlet Filter must be kept clear of obstructions to avoid reducing air flow. If any parts are damaged or missing, do not operate until parts are replaced. Failure to follow this warning could result in serious personal injury.

Do not use compressor in an environment that is dusty or otherwise contaminated. This type of environment may cause damage to compressor.

Always follow filter maintenance instructions (pg. 13)

Compressor Flow Data (CFM)

Pressure	CA-55	CA-65	CA-125	CA-150
0	4.50	5.50	6.80	7.80
5	3.00	3.40	5.80	6.20
7.5	2.80	3.30	5.70	6.15
10	2.75	3.20	5.55	5.90
15	2.60	3.10	5.20	5.75

Amp Data

Pressure	CA-55	CA-65	CA-125	CA-150
0	2.35	3.63	2.41	3.03
5	2.61	2.92	3.06	3.47
7.5	2.68	3.01	3.23	3.74
10	2.75	3.11	3.41	4.00
15	2.89	3.25	3.79	4.45

BEFORE OPERATING

Installing Air Intake Filter

Remove intake filter from the bag and thread into compressor head. Always install the filter on one of the inlet/intake ports (Figure 1). Keep the other inlet port plugged.

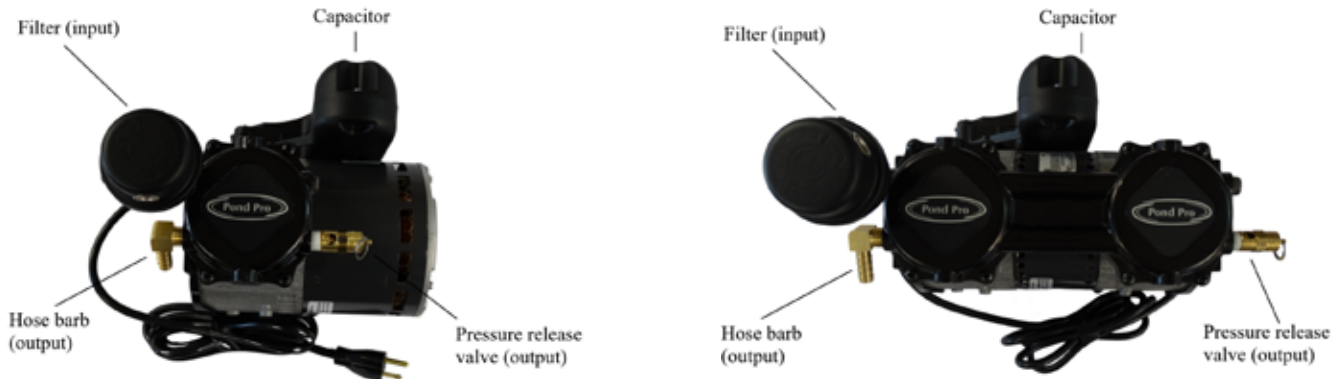


Figure 1: compressors with associated fittings

Attaching Hoses or Piping

The compressor is assembled at the factory and ready for use. Check all components to ensure secure assembly.

Make sure power to the compressor is disconnected.

1. Apply thread sealant (not included) to 1/4" NPT hose barb or fitting to be threaded into compressor outlet.
2. Install hose fitting into compressor outlet port (Figure 1).
3. Install a 1/4" NPT pressure release valve into the other outlet port.

Do not attempt to modify compressor or create accessories for this compressor. Alteration or modification is misuse and could result in serious personal injury or void warranty.

Do not attach anything to compressor outlet until all pre-operation steps have been completed.

Do not allow familiarity with compressors make you careless. One careless second is sufficient to inflict serious injury.

Always wear safety glasses when operating power tools. Failure to do so could result in objects being thrown into your eyes resulting in possible serious injury.

Risk of bursting. Use only recommended air handling parts acceptable for pressures more than 200 psig.

OPERATING THE COMPRESSOR

Preparing For Start-Up

Visually inspect air lines for leaks.

Visually inspect cord and extension cords for damage.
Do not use if damaged.

Risk of unsafe operation. Firmly grasp air hose in hand when installing or disconnecting to prevent hose whip.

Risk of unsafe operation. Do not use damaged or worn accessories.

Too much air pressure may cause bursting. Check manufacturer's maximum pressure rating for air tools and accessories. The compressor, hoses, air tools, and accessories must never operate at a pressure exceeding their maximum pressure rating.

Compressed air from the compressor may contain water condensation. Do not spray unfiltered air at an item that could be damaged by moisture. Some air tools and accessories may require filtered air. Read instructions for air tools and accessories before using.

Starting The Compressor

Ensure there is no pressure in air line, unless compressor has optional pressure restart capabilities.

1. Plug power cord into a proper receptacle.
2. The compressor will turn on when plugged in.

Risk of unsafe bursting. If any unusual noise or vibration is noticed, stop compressor immediately and have it checked by a trained service technician.

Always ensure compressor unplugged and OFF and there is no pressure in line before changing air tools or disconnecting hose from compressor outlet. Failure to do so could result in serious personal injury.

Your tool may require more air than this compressor is capable of providing. Check manual to avoid damage to tool and personal injury.

MAINTENANCE

General Maintenance

Use clean cloths to remove dirt, dust, grease, etc.

Avoid using solvents when cleaning plastic parts. Most plastics are susceptible to damage from various types of solvents and may be damaged by their use.

Any servicing of compressor other than that recommended in this instruction manual must be performed by Pond Pro, or a qualified service technician.

Inspection of inlet filter is suggested every month. When inspecting inlet filter, also clean inlet port area of filter and head. Inlet filter housing assemble can be cleaned with soap and water. Be sure to dry all parts before reinstalling the filter.

If compressor makes an abnormal noise upon start-up, or the amount of air discharged is greatly decreased, turn off power immediately.

When not in use, store compressor in a cool, dry place. Disconnect air hoses and hang open ends down to allow moisture to drain.

For repairs or replacement parts, please contact Pond Pro.

When servicing, use only proper Pond Pro CA-Series parts. Use of any other parts may create a hazard or cause product damage.

Always disconnect power before installing or servicing compressor. Failure to do so could result in electrical shock, personal injury, or death. The motor is thermally protected and will automatically restart when it cools if thermal protector has been tripped.

Always release all pressure and allow compressor to cool before cleaning, attaching accessories or making repairs.

The inlet filter must be periodically cleaned or replaced. A clogged inlet filter can cause overheating or compressor failure.

MAINTENANCE

Cleaning The Air Filter

Compressor inlet filter needs to be removed and cleaned every month or replaced every 3 months minimum.

1. Unplug compressor and allow to cool.
2. Unthread inlet filter from compressor head.
3. Unsnap inlet filter cover and remove filter components.
4. Blow compressed air through filter components to remove loose dust/debris.
5. Wash filter housing assembly in soapy water and allow to dry.
6. Replace filter components in proper order and snap cover back in place.
7. Reinstall inlet filter in compressor head.

SERVICE PARTS

All service parts can be found online at www.pondpro.ca or contact our sales and service team for replacement parts at sales@pondpro.ca or 1-855-414-7663. Pond Pro Canada staffs qualified service technicians to help troubleshoot and repair compressors.

TROUBLESHOOTING

Low Pressure	High Pressure (pressure relief valve popping)	Pump Overheat	Will not start	Excess Noise	Fuse's bowor circuit trips frequently	Possible Reason and Solution for problem
★		★	★			Filter is dirty. Clean or replace.
★	★	★	★			Muffler is dirty. Clean or replace.
★						Valves are dirty or valves are bent. Clean or replace.
			★			Faulty/failing capacitor. Replace.
			★		★	Wrong gauge wire or length of extension cord is used.
			★		★	Incorrect fuse type being used. Speak with electrician.
★	★	★	★			Plugged pressure line. Inspect and repair.
		★	★			Low voltage, will not start. Check power supply
		★	★	★	★	Incorrect voltage. Check power supply.
★				★		Worn cup/piston hitting cylinder. Replace.
		★		★		Cylinder misadjustment. Realign.
★			★			Leaky hose or check valve. Replace.
★		★	★	★		Dirt or liquid on top of piston. Inspect and clean.
★		★	★	★		Motor wired incorrectly. Check wiring diagram/line voltage.
★				★		Blown head gasket. Replace.

WARRANTY

Warranty Period:

2 years bought without cabinet/shelf.

3 years bought with cabinet/shelf. Shelf must be mounted at least 3 feet from walls and other obstructions. Ensure adequate airflow at all times.

Pond Pro warrants this Can-Air compressor to be free from defects in material or workmanship under normal use and service. Pond Pro's obligation under this warranty is limited to replacing or repairing free of charge any defective part within the warranty period. Customer shall pay shipping charges for returning the unit to Pond Pro's facility.

THIS WARRANTY IS IN LIEU OF ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, AND ANY OTHER OBLIGATION OR LIABILITY WHATEVER ON THE PART OF POND PRO AND IN NO EVENT SHALL POND PRO BE LIABLE FOR ANY SPECIAL OR CONSEQUENTIAL DAMAGES.

Warranty is void if:

- The compressor is not maintained properly according to the Maintenance Recommendations supplied in this Owners Manual.
- The compressor is damaged by unauthorized tampering.

Warranty Claim Procedure:

The best method for establishing warranty period is by the original receipt. Also, register the compressor online at: www.pondpro.ca. Once the warranty coverage has been established, the unit may be sent to any Pond Pro Repair Center for evaluation and repair. Please call Pond Pro at 855-414-7663 prior to shipping to receive any updated information and/or Repair Form, then ship to:

Pond Pro Canada
49350 Range Rd 211, Camrose County
AB T4V 2N1

Attn: Repairs

Or call Pond Pro at 855-414-7663 to locate your nearest Authorized Repair Center. You can also email Pond Pro at sales@pondpro.ca. Please include the Repair Form received from Pond Pro or your local distributor with the shipment. If no Repair Form is available, include your name and physical address for return delivery of the repaired unit and a daytime phone number and/or e-mail address for correspondence regarding the warranty claim.

Any expedited shipping method for the return of the unit is at the customer's expense. Pond Pro will return units repaired under warranty at our expense via ground freight within Canada.

Other Repairs:

Most failed equipment can be repaired at substantially lower costs than replacement with new. Please ship according to the instructions in the previous section. Again, it is best to call ahead for updated information and/or Repair Form. Pond Pro does estimates on repairs at the request of the customer. The request for estimate should be included in the letter that accompanies the returned unit and must include a daytime phone number and/or e-mail address. Estimate options are as follows:

We will contact the customer with a total after the unit has been evaluated, but before the work is performed. We will repair the unit only if repair costs are under a stated dollar amount. Example: "Please repair if total is under \$150.00 before shipping charges." All estimates that are rejected for repair will be destroyed unless otherwise directed by the customer. If the customer would like the unit returned, the unit will be restored as closely as possible to the condition in which it was received and shipped at the customer's expense for shipping and handling charges.

Billing:

All non-warranty repairs will be returned to the customer and billed C.O.D. unless otherwise directed. Pond Pro also accepts Visa and MasterCard credit card payments and E-transfer. Pond Pro will call for credit card information upon completion of the repair at the customer's request.

All other warranty and repair inquiries should be directed to Pond Pro at 855-414-7663 or sales@pondpro.ca.



POND PRO

North America's Pond Superstore

Born out of Ackenberry Trout Farm, Pond Pro is a family owned business. We have grown from a small pond supply store to a Canadian leader in pond supply, aeration systems, water fountains, and industrial water needs.

Be it designing a unique pond maintenance guide for a customer, offering advice on marketing products, or providing solutions for large scale water systems,

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