

# Single Stage Compressors

## Instruction & Parts Manual

This manual contains important safety information and must be carefully read in its entirety and understood prior to installation by all personnel who install, operate and/or maintain this product.

Manual No. 1312100602

September 2012 Edition

# WARRANTY

## Quincy Compressor Reciprocating Products Single Stage Compressors

### What does this warranty cover?

Quincy Compressor (the Company) warrants this compressor to be free from defects in materials and workmanship for a period of one year from date of purchase.

### What are the Company's obligations under this warranty?

In the event this compressor proves to be defective during the warranty period, the Company will, at its sole option, either repair or replace this compressor. The Company and its authorized agents may use, at their discretion, reconditioned units when undertaking such repairs or replacement. Repaired or replacement units shall be warranted hereunder for the remainder of the warranty period applicable to the original compressor, or ninety (90) days, whichever is greater.

### How do you get service?

Contact your local Quincy distributor, or call the Company's Service department at (217) 222-7700, for directions to the nearest authorized warranty repair center. In order for you to be eligible to utilize this warranty, Company must have received a completed warranty registration card within thirty (30) days of your purchase of this compressor or, at the time service is requested, you must be prepared to provide proof of purchase in the form of a receipt or invoice. All moving, shipping and insurance charges incurred by you to deliver this compressor to the nearest authorized warranty repair center shall be paid by you and shall be your exclusive responsibility. All risk of loss or damage to your compressor in transit shall remain with you until such time as Company or its authorized agents take receipt of your compressor.

### What does this warranty not cover?

This warranty is contingent upon proper use of the compressor by purchaser and does not cover:

- (A) Abnormal conditions, accident, neglect, misuse or improper storage of the unit.
- (B) Deviation from operating or maintenance instructions.
- (C) Modifications not authorized by the Company.
- (D) Repairs or maintenance (other than routine air tank draining and air filter changes required by your operating and maintenance manual) made by persons other than Company or its authorized agents.

### What are the limits of Company's Liability?

The warranty given herein, together with any implied warranties covering this compressor, including warranties of merchantability or fitness for a particular purpose are limited in duration to one year from the date of purchase, and no warranties, whether express or implied will apply after this period. Some states and provinces do not allow limitations on how long an implied warranty lasts, so the above limitations may not apply to you.

If this compressor is not in good working order as warranted above, your sole remedy shall be repair or replacement as provided above. In no event will Company be liable to you for any damages, including any lost profits, lost savings or other incidental or consequential damages arising out of the use or inability to use such compressor, even if Company or your place of purchase has been advised of the possibility of such damages.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state or province to province.

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### DANGER !

Immediate hazards which will result in severe personal injury or death.

### WARNING !

Hazards or unsafe practices that could result in personal injury or death.

## SAFETY

"DANGER!", "WARNING!", and "CAUTION!" are displayed in large bold capital letters to call attention to areas of vital concern. They represent different degrees of hazard seriousness, as stated by the following:

### CAUTION !

Hazards or unsafe practices which could result in minor personal injury, product or property damage.

This instruction manual, and any instructions supplied by manufacturers of supporting equipment, should be read and understood prior to assembling, starting or disassembling the compressor. Be thoroughly familiar with the controls and proper use of this equipment. If there are any questions, please call your local Quincy distributor.

## Safety Precautions

- Relieve the system of all pressure before servicing any part of the unit.
- Allow ample time for the compressor to cool before performing service procedures. Some surface temperatures exceed 350°F when the compressor is operating.
- All installation, maintenance and repair work must be performed by a qualified technician or electrician.
- Do not remove or paint over any DANGER!, WARNING!, CAUTION!, or instructional materials attached to the compressor.
- Periodically check all pressure relief valves for proper operation.
- Do not change the pressure setting of the pressure relief valve, restrict the function of the pressure relief valve, or replace the pressure relief valve with a plug.
- Do not install a shutoff valve in the compressor discharge line without first installing a pressure relief valve of proper size and design between the shutoff valve and the compressor.
- Do not make alterations to this compressor.
- Do not operate the compressor in excess of its 135 p.s.i. service rating.
- Prior to use, make a general overall inspection of the unit and correct any unsafe situations. All fasteners must be kept tight.
- If for any reason any part of the manual becomes illegible or the manual is lost, have it replaced immediately. The instruction manual should be read periodically to refresh one's memory.
- Wear safety glasses and hearing protection during operation, service & maintenance procedures.

## DANGER !

**Air used for breathing or food processing must meet OSHA 29 CFR 1910.134 or FDA 21 CFR 178.3570 regulations. Failure to do so may cause severe injury or death.**

The owner, lessor or operator of any compressor unit sold by Quincy Compressor is hereby warned that failure to observe the safety precautions and procedures outlined in this manual may result in serious

personal injury, damage to property, and may void your warranty. Quincy Compressor must authorize all warranty service. Before contacting your distributor or the factory, check the maintenance requirements and the troubleshooting guide for your compressor. Most warranty issues can be resolved by following proper maintenance procedures.

Quincy Compressor neither states as fact, nor in any way implies that the above list of safety precautions is an all inclusive list, the observance of which will prevent all damage to property or injury to personnel.

Every effort has been taken to ensure that complete and correct instructions have been included in this manual. However, possible product updates and changes may have occurred since this printing. Quincy Compressor reserves the right to change specifications without incurring any obligation for equipment previously or subsequently sold.

## DESCRIPTION & APPLICATION

Air Master Series single stage compressors are air-cooled and splash lubricated. It is the installers responsibility to meet the appropriate codes and regulations for this type of installation.

## INSTALLATION

Air Master Series air compressors should be operated in a secure upright position and located in an area that is clean, dry, well lighted, and adequately ventilated. The compressor belt guard must not be located closer than 18 inches to a wall, or 24 inches to another compressor. Additional safety can be achieved by locating the pulley drive system, with the guard, next to the wall. Do not allow hot air from additional equipment to blow towards the compressor.

It is recommended that the compressor be operated in temperatures under 104°F and over 32°F. In cold climates, the compressor should be installed in a heated building.

## DANGER !

**Under no circumstances should a compressor be used in an area where toxic, volatile, or corrosive agents are used or stored near the compressor.**

## Noise

Federal and local laws govern acceptable noise levels; should a question about noise levels arise, check with local officials for specifications.

## CAUTION !

Unusual noise or vibration indicates a problem. Do not operate the compressor until the source has been identified and corrected by a qualified technician.

## Electrical Information

The installation, electric motor, wiring, and all electrical controls must be in accordance with National Electric Code, National Electric Safety Code, Canadian Electric Code, state and local codes. Failure to abide by the national, state and local codes may result in physical harm and/or property damage. All electrical connections must be performed by a qualified electrician. Note: This unit must be grounded.

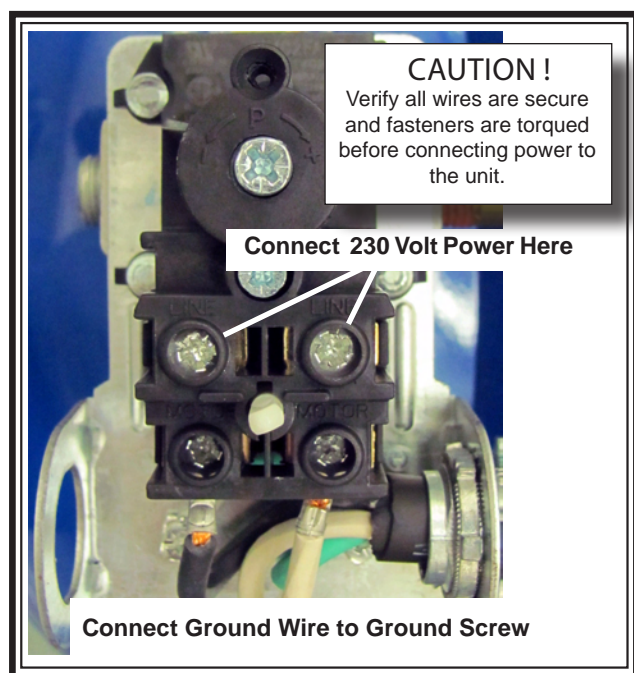


Fig. 1 Electrical Connections for Model Q13160V

Some Air Master compressors are equipped with an electrical supply cord. Do not modify the cord! If the plug will not fit the outlet, have the correct outlet installed by a certified electrician.

Air Master compressors not equipped with a power cord must be wired in accordance with the NEC and all state and local codes and ordinances (see Fig. 1).

## DANGER !

High voltage may cause personal injury or death. Disconnect and lockout/tagout per OSHA regulation 1910.147 all electrical power supplies before opening the electrical enclosure or servicing.

## WARNING !

Never assume a compressor is safe to work on just because it is not operating. It could restart at any time. Follow all safety precautions outlined in MAINTENANCE.

## Overload Relay Protection (if so equipped)

An overload relay will stop the unit if the motor becomes overheated. (Causes for overheating of the motor can be found in TROUBLESHOOTING.) Once the overload relay has been tripped, the motor must cool and the red overload button on the motor must be reset before the unit will start.

## CAUTION !

Overload relays are designed to protect the motor from damage due to motor overload. If the overload relay trips persistently, DO NOT CONTINUE TO PUSH THE RESET BUTTON! Contact your local Quincy distributor for assistance.

## Extension Cords (portable units)

To avoid power loss and overheating of the motor, use of additional air hose is recommended rather than an extension cord. If an extension cord is to be used, it must be a 3 wire cord with a 3 prong plug. Refer to the following chart to determine the wire gauge required in relation to the cord length:

Cord Length	Wire Gauge Size
up to 25 ft.	14-12 ga.
up to 100 ft.	10 ga.

## CAUTION !

Do not operate this compressor more than 10° off level or move it while it is running.

## Mounting Stationary Units

Proper mounting of Air Master compressor units is crucial to the safe operation and longevity of the equipment.

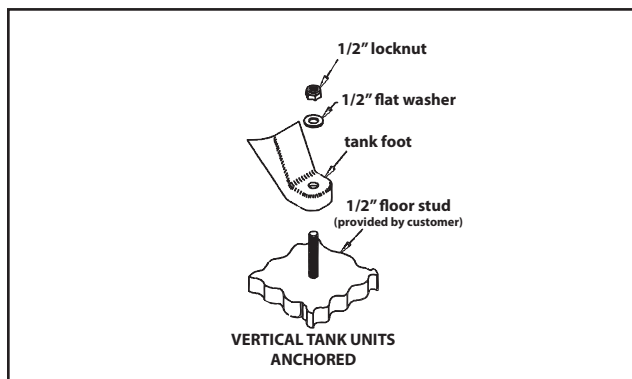
## WARNING!

The compressor unit must be removed from the shipping skid prior to installation.

The installation requires a flat and level concrete floor or pad. All vertical stationary tank units must be anchored! Quincy recommends that all vertical tank units be mounted as indicated without isolators ( See Fig. 2).

State or local codes may mandate that the compressor be bolted to the floor. In this case the unit

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**Fig. 2**  
**Anchoring Vertical Tank Units**

must be leveled and bolted making absolutely certain the feet are not stressed in any manner. Leave the locknut loose! Uneven feet drawn tightly to the concrete pad will cause severe vibrations resulting in cracked welds or fatigue failure. The customer is responsible for providing a suitable foundation & isolator mounting where necessary.

The compressed air supply line from the tank of a stationary unit must be equipped with a pressure and temperature rated flexible connection.

## SYSTEM COMPONENTS

### Drive Pulleys / Flywheels

Drive pulleys and compressor flywheels must be properly aligned and tensioned to specifications. (Refer to Belt Alignment & Adjustment.)

### WARNING !

**Excessive compressor RPM's could cause a pulley or flywheel to shatter, possibly causing bodily harm or death. Do not operate the compressor above the recommended RPM. (Refer to DESCRIPTION & APPLICATION).**

### Guards

Guards must be designed and mounted in compliance with OSHA safety and health standards 29 CFR 1910.219 in OSHA manual 2206, and any state or local codes. They must provide protection from moving parts while still allowing full air flow for cooling purposes.

### WARNING !

**Guards must be fastened in place before starting the compressor. Always disconnect and lockout the power supply to the unit before removing the guard.**

### Check Valves

Check valves are designed to allow air to flow freely in one direction only. A properly sized check valve must be provided. Do not rely on a check valve to isolate a compressor from a pressurized tank or compressed air delivery system during maintenance procedures.

### Pressure Regulator

This type of valve allows the operator to control the air pressure setting of the compressor discharge. A gauge is provided to indicate the air pressure.

### Pressure Relief Valves

Pressure relief valves aid in preventing system failures by relieving system pressure when compressed air reaches a predetermined pressure level. All air receivers must be equipped with an adequately sized pressure relief valve. This type of valve is preset by the manufacturer and must not be modified in any way.

Pressure relief valves are to be placed ahead of any potential blockage point which includes, but not limited to, shutoff valves, heat exchangers, pulsation dampeners, and discharge silencers. Ideally the pressure relief valve should be threaded directly into the pressure point it is sensing, not connected with tubing or pipe, and always pointed away from any chance bystander.

### WARNING !

**Pressure relief valves must be provided to protect compressed air systems in accordance with ASME B19 safety standards. Failure to provide properly sized pressure relief valves may cause property damage, severe personal injury or even death.**

### WARNING!

**Do not use plastic pipe (PVC) anywhere in a compressed air system. Serious injury or death could result.**

### Compressor Controls

#### Start/Stop

Electric motor powered units are equipped with a pressure switch as standard equipment for start/stop operation. The pressure switch (when set to the "auto" position) reacts to the demand for compressed air and allows the motor to start. When the demand is satisfied, the unit stops. Pressure switches provided by Quincy Compressor are preset at the factory and should only be modified by a qualified technician. Pressure switches equipped with an OFF/AUTO knob (refer to Fig.4) should be set to the "OFF" position



when connecting or disconnecting the power cord from the electrical outlet or when changing air tools.

This system provides a loadless start feature. A release valve on the pressure switch opens when the unit shuts down and bleeds off pressure in the discharge line. The check valve holds pressure in the tank.

## Air Intake

A clean, cool, dry, air supply is essential to the satisfactory operation of your Air Master compressor.

### WARNING !

**Never locate the compressor where toxic, volatile or corrosive vapors, air temperatures exceeding 104°F, water, or extremely dirty air could be ingested. The compressor could be damaged by these atmospheres and result in injury or death.**

When using the compressor for spray painting, isolate the compressor as far away from the work area as practical, employing extra air hose rather than an extension cord.

Warranty will be void if a failure is determined to be caused by dust, dirt or other contaminants.

## Compressed Air Discharge System

All parts of the discharge piping should fit so as not to create any stress between the piping and connections.

### WARNING !

**Discharge piping can exceed 350°F when compressor is operating. Do not use plastic pipe or lead tin soldered joints for a discharge line.**

## Pressure Vessels

Air receiver tanks and other pressure containing vessels must be equipped with a properly sized pressure relief valve, pressure gauge, and a tank drain.

### WARNING!

**Oil and moisture residue must be drained from the air receiver daily or after each use. Accumulations of oil residue in the receiver can be ignited by embers of carbon created by the heat of compression, causing an explosion, damage to property and injury to personnel.**

### WARNING !

**Follow ASME code for air receiver tanks and other pressure containing vessels. Pressure vessels must not be modified, welded on, or repaired. Such actions may cause property damage, severe injury, or even death. Always replace worn, cracked or damaged tanks.**

## Manual Tank Drain Valve Operation

The manual tank drain valve on portable compressors and some stationary compressors is located on the underside of the air tank. Portable compressors can be tilted in the direction of the drain to allow removal of tank moisture.

Safe removal of tank moisture from the tank is dependent upon an internal tank pressure of 20 to 30 PSIG. Higher tank pressures are dangerous and could cause serious injury!

### WARNING!

**Do not open a manual tank drain valve on any air tank containing more than 30 PSIG of air pressure!**

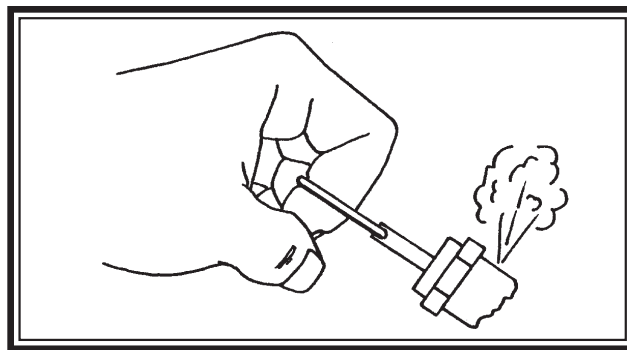
### WARNING!

**Never attempt to relieve an air tank by removing a pipe plug or any other system component!**

### *Manually Draining An Air Tank:*

Tank(s) subjected to freezing temperatures may contain ice. Store the compressor in a heated area before attempting to drain moisture from the tank(s).

- Step 1) Disconnect and lockout the compressor from the power source.
- Step 2) Reduce the air pressure in the tank to 30 PSIG by pulling the pressure relief valve ring (see Fig. 3).



**Fig. 3 Checking Pressure Relief Valves  
& Relieving System Pressure**

- Step 3) Position yourself so that the moisture and air to be expelled can not cause you harm.

Quincy Compressor

- Step 4) Slowly open the drain valve and allow the moisture and air mixture to drain from the tank.
- Step 5) Once the moisture has been completely drained, close the drain valve.

## Air Tank Inspection

Quincy Compressor recommends that all air tanks be inspected at scheduled intervals. Refer to Fig. 4 Recommended Air Tank Inspection Intervals for relative information. Measure tank wall thickness at several locations, including the lowest point where condensation can accumulate.

Tank Capacity	Horizontal or Vertical	Minimum Allowable Wall Thickness		Visually Inspect	Hydrostatically Inspect
		Head	Shell		
20 Gal.	Horizontal	.094	.094	Yearly	10 Years
36 Gal.	Vertical	.094	.094	Yearly	10 Years
60 Gal.	Vertical	.094	.094	Yearly	10 Years

**Fig. 4 Recommended Air Tank Inspection Intervals**

Refer to federal, state or provincial, or local codes for mandatory air tank maintenance information.

## PRE-STARTING CHECKLIST

### WARNING !

**Failure to perform the PRE-STARTING CHECKLIST may result in mechanical failure, property damage, serious injury or even death.**

Steps 1 through 6 should be performed prior to operating the unit. If any condition of the checklist is not satisfied, make the necessary adjustments or corrections before starting the compressor.

### WARNING !

**Never assume a compressor is safe to work on just because it is not operating. It could restart at any time. Follow all safety precautions outlined in MAINTENANCE.**

- Step 1) Compressors are shipped with lubricant in the crankcase. Check for proper lubricant level. (Refer to Lubrication.)
- Step 2) Make sure all pressure relief valves are correctly installed. (Refer to SYSTEM COMPONENTS)

- Step 3) Be sure all guards are in place and securely mounted. (Refer to SYSTEM COMPONENTS)
- Step 4) Check all hoses and fittings for weak or worn conditions and replace if necessary.
- Step 5) Check fuses, circuit breakers, and overload relays for proper sizes.
- Step 6) Open the tank drain valve in the bottom of the tank.

## STARTING & STOPPING THE COMPRESSOR

- Step 1) Make sure the OFF/AUTO knob on the pressure switch is turned to the "OFF" position (see Fig. 5).



**Fig. 5 Pressure Switch**

- Step 2) Turn on the power supply or plug the power cord into a properly grounded and rated power source.
- Step 3) Start the compressor by turning the OFF/AUTO knob to the "AUTO" position.
- Step 4) At initial start-up, verify that the compressor flywheel is rotating counterclockwise (as viewed from the flywheel side of compressor). Watch and listen for excessive vibration and unusual noise. If either exist, stop the compressor and refer to TROUBLESHOOTING.
- Step 5) New compressors should be run with the tank drain valve open for 1 hour to break-in the compressor. This will allow the compressor time to warm up and seat the rings.

Quincy Compressor

- Step 6) To stop the compressor, turn the OFF/AUTO knob to the "OFF" position. Carefully unplug the power cord from the power source or turn off the power supply.

## MAINTENANCE

The following procedures should be performed when stopping the compressor for maintenance or service:

- Step 1) Prior to performing any maintenance or repair, always turn the OFF/AUTO knob to the "OFF" position and per OSHA regulation 1910.147, disconnect and lockout/tagout the main power source. Then, isolate the compressed air supply by closing and locking out a manual shutoff valve upstream and downstream from the compressor. Display a sign in clear view at the main power source and at the shutoff valve stating that the compressor is being serviced.
- Step 2) Completely relieve the system of air pressure by pulling the ring on a pressure relief valve. Continue to pull the ring until all air pressure escapes. (Refer to Fig. 3)
- Step 3) Slowly open all manual drain valves within the area to be serviced.
- Step 4) Wait for the unit to cool before starting to service.

### Maintenance Schedule

If the unit is used in an excessively dirty or dusty environment, check and perform all maintenance procedures more often.

#### ***After First 100 Hours or First Month of Operation (whichever occurs first)***

- Replace break-in lubricant (Refer to LUBRICATION).

#### ***Daily***

- Maintain lubricant level to be visible in the center of the sight glass. Discolored lubricant or a higher lubricant level reading may indicate the presence of condensed liquids. (Refer to TROUBLESHOOTING.)
- Drain the air tank, drop legs and moisture traps in air distribution system. Tank(s) subjected to freezing temperatures may contain ice. Store the compressor in a heated area before attempting to drain moisture from the tank(s). Never attempt to drain these components without first relieving the system pressure.
- Give compressor overall visual inspection and be sure safety guards are in place.
- Check for any unusual noise or vibration.

#### ***Weekly***

- Pull on the ring of the pressure relief valves to make sure they are operating correctly. Air pressure should escape when the ring is pulled (refer to Fig. 3).
- Check all pressurized components for rust, cracking or leaking. Immediately discontinue use of the equipment and relieve all system pressure if any of these problems are discovered. Do not use the equipment until it has been inspected and repaired by a qualified mechanic.
- Clean the exterior surfaces of the compressor.
- Check the air filter and replace if necessary.
- Check system for air &/or lubricant leaks.

#### ***Monthly***

- Check belt tension.
- Check flywheel retaining bolt.

#### ***Every 3 Months (or every 300\* hrs.)***

- Change lubricant. Use a compressor grade non-detergent lubricant.

### Lubrication

Before starting this compressor, check the lubricant level. It should register 1/2 way to slightly above in the sightglass. Add lubricant to the crankcase through the crankcase oil fill / breather port. Do not overfill.

#### **Approximate Crankcase Lubricant Capacity**

**Q12120P & Q12126VP = .86 qts. (.817 lit.)**

**Q13160V = 1.12 qts. (1.06 lit.)**

A non-detergent SAE 40 weight lubricant may be used in your compressor. Detergent lubricants are not recommended because they have a tendency to foam when used in compressors.

### Condensation

Rust can form inside the crankcase and on internal components as a result of condensation. A compressor must operate long enough during each run cycle to reach full operating temperature in order to reduce the risk of condensation.

### CAUTION!

**Lubricant that appears milky on the dipstick may have mixed with condensate. Failure to replace contaminated lubricant will result in damage to the compressor and may void warranty.**

Condensation can also form in the air tank of your compressor. When this happens, a mixture of air and moisture will be expelled through the service valve and into whatever is connected to the valve (e.g. air hoses, metal air lines, pneumatic tools, spray guns).



An in-line filter or dryer, available from your local Quincy distributor, may be required to eliminate the moisture.

Condensation in the air tank can be kept to a minimum by draining the tank on a daily basis. This also reduces the risk of rust developing and weakening the tank.

### Belt Alignment & Adjustment

Drive belts tend to stretch with normal use and require adjustment periodically (check monthly). In order to adjust the drive belt the belt guard must be removed. Prior to removing the belt guard, follow the procedures outlined under MAINTENANCE.

Properly adjusted, a 3 pound pressure applied to the belt between the motor pulley and the compressor flywheel will deflect the belt about 1/4"(6mm.). Refer to Fig. 7. To adjust the belt tension, loosen the 4 motor mounting screws and slide the motor in the proper direction. Retighten the motor mounting screws.

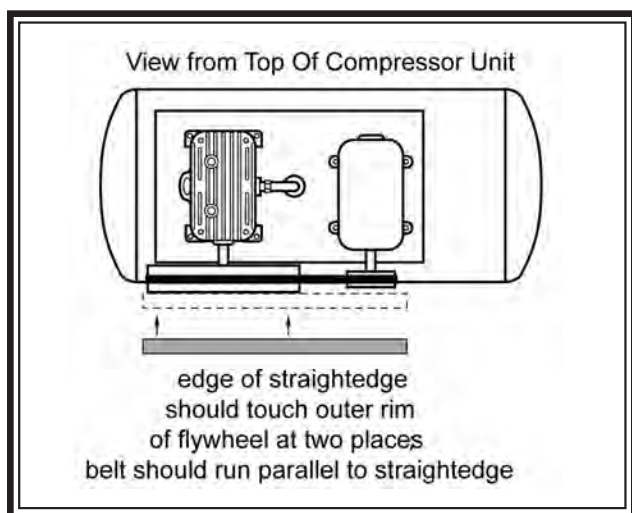


Fig. 6 Typical Belt Alignment

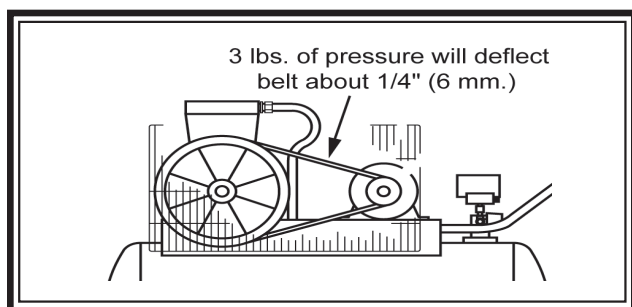


Fig. 7 Typical Belt Adjustment

Check the belt alignment by placing a straightedge against the face of the flywheel, touching its rim at two places (refer to Fig. 6). Adjust the flywheel or motor pulley so that the belt runs parallel to the straightedge. Use a wheel puller to move the motor pulley on the shaft.

# TROUBLESHOOTING

Read and understand all the safety precautions listed in the front of this manual and follow all procedures listed in MAINTENANCE before making repairs.

PROBLEM	CAUSES	CORRECTION
1. Compressor won't operate.	<ol style="list-style-type: none"> <li>1. Power cord not plugged in.</li> <li>2. OFF/AUTO switch in "OFF" position.</li> <li>3. Motor overload relay tripped.</li> <li>4. Fuse blown &amp;/or circuit breaker is tripped.</li> <li>5. Defective pressure switch.</li> <li>6. Defective motor.</li> <li>7. Lack of lubricant in compressor (can cause serious damage to compressor).</li> <li>8. Belt too tight or too loose.</li> <li>9. Motor voltage does not match voltage of power source.</li> </ol>	<ol style="list-style-type: none"> <li>1. Plug power cord in.</li> <li>2. Switch to "auto".</li> <li>3. Turn OFF/AUTO switch to the "OFF" position. Push the motor thermal overload (red) button firmly until a click is heard. Turn auto/off switch to "auto".</li> <li>4. Replace fuse or reset circuit breaker.</li> <li>5. Replace or repair pressure switch.</li> <li>6. Replace or repair motor.</li> <li>7. Add lubricant (refer to Lubrication).</li> <li>8. Adjust belt (refer to Belt Alignment &amp; Adjustment).</li> <li>9. Change power cord &amp; voltage of motor to match power source.</li> </ol>

2. Motor hums or runs slowly when first turned on.	<ol style="list-style-type: none"> <li>1. Light duty extension cord being used.</li> <li>2. Loose electrical connection.</li> <li>3. Low voltage.</li> <li>4. Motor sized incorrectly.</li> <li>5. Defective motor.</li> <li>6. Motor voltage does not match voltage of power source.</li> </ol>	<ol style="list-style-type: none"> <li>1. Use additional hose instead of extra extension cord or use heavier gauge extension cord.</li> <li>2. Repair electrical connections.</li> <li>3. Check with voltmeter.</li> <li>4. Replace with correctly sized motor.</li> <li>5. Replace motor.</li> <li>6. Change power cord &amp; voltage of motor to match voltage of power source.</li> </ol>
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3. Fuses blow or circuit breakers trip.	<ol style="list-style-type: none"> <li>1. Loose electrical connection.</li> <li>2. Too many lights or appliances being operated on the same circuit as the compressor (circuit overloaded).</li> <li>3. Defective check valve or unloader.</li> <li>4. Low voltage.</li> <li>5. Motor sized incorrectly.</li> <li>6. Incorrect size fuse or circuit breaker.</li> <li>7. Defective motor.</li> <li>8. Motor voltage does not match voltage of power source.</li> </ol>	<ol style="list-style-type: none"> <li>1. Repair electrical connections.</li> <li>2. Try another circuit or remove other appliances from circuit being used.</li> <li>3. Replace check valve or unloader.</li> <li>4. Check with voltmeter.</li> <li>5. Replace with correctly sized motor.</li> <li>6. Check for proper size fuse.</li> <li>7. Replace motor.</li> <li>8. Change power cord &amp; voltage of motor to match voltage of power source.</li> </ol>
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PROBLEM	CAUSES	CORRECTION
4. Motor overload relay trips	<ol style="list-style-type: none"> <li>1. Light duty extension cord being used.</li> <li>2. Loose electrical connection.</li> <li>3. Lubricant being used is too heavy.</li> <li>5. Defective check valve or un-loader.</li> <li>6. Low voltage.</li> <li>7. Freezing temperature.</li> <li>8. Motor sized incorrectly.</li> <li>9. Drive belt too tight.</li> <li>11. Defective motor.</li> <li>12. Lack of proper ventilation - room temperature too high.</li> <li>13. Motor voltage does not match voltage of power source.</li> </ol>	<ol style="list-style-type: none"> <li>1. Use additional hose instead of extra extension cord or use heavier gauge extension cord.</li> <li>2. Repair electrical connections.</li> <li>3. Use a lighter weight lubricant (refer to Lubrication).</li> <li>5. Replace check valve or un-loader.</li> <li>6. Check with voltmeter.</li> <li>7. Warm the compressor.</li> <li>8. Replace with correctly sized motor.</li> <li>9. Readjust belt (refer to Belt Alignment &amp; Adjustment).</li> <li>11. Replace motor.</li> <li>12. Move the compressor to a well ventilated area.</li> <li>13. Change power cord &amp; voltage of motor to match voltage of power source.</li> </ol>

5. Noisy operation.	<ol style="list-style-type: none"> <li>1. Lack of lubricant in crankcase.</li> <li>2. Loose pulley, flywheel, belt, compressor or motor fasteners, beltguard, clamps or accessories.</li> <li>3. Carbon deposits on piston or valves.</li> <li>4. Worn main bearings, broken piston, worn wrist pins, wrist pin bearings, or loose connecting rod bolt.</li> </ol>	<ol style="list-style-type: none"> <li>1. Check for possible damage to bearings. Add lubricant (see Lubrication).</li> <li>2. Tighten where necessary.</li> <li>3. Remove the cylinder head and inspect for foreign matter on top of the piston. Clean.</li> <li>4. Take to Authorized Service Center.</li> </ol>
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6. Excessive vibrations.	<ol style="list-style-type: none"> <li>1. Pulley &amp; flywheel misaligned or loose.</li> <li>2. Bent crankshaft.</li> <li>3. Belt loose.</li> <li>4. Compressor unit bolted to uneven surface or not bolted down at all (stationary models).</li> </ol>	<ol style="list-style-type: none"> <li>1. Realign or tighten pulley and flywheel.</li> <li>2. Take to Authorized Service Center.</li> <li>3. Tighten belt (refer to Belt Alignment &amp; Adjustment).</li> <li>4. Shim to level surface &amp; fasten to floor if possible.</li> </ol>
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PROBLEM	CAUSES	CORRECTION
7. Excessive lubricant consumption and/or excessive lubricant in hose.	<ol style="list-style-type: none"> <li>1. Crankcase overfilled with lubricant.</li> <li>2. Lubricant leaks.</li> <li>3. Worn piston rings.</li> <li>4. Wrong lubricant viscosity.</li> <li>5. Compressor on unlevel surface.</li> <li>6. Scored cylinder.</li> <li>7. Plugged crankcase breather.</li> </ol>	<ol style="list-style-type: none"> <li>1. Drain lubricant. Refill to proper level with proper lubricant (refer to Lubrication).</li> <li>2. Tighten bolts on compressor to proper torque or replace gaskets.</li> <li>3. Take to Authorized Service Center.</li> <li>4. Drain lubricant &amp; refill with proper lubricant (refer to Lubrication).</li> <li>5. Level compressor.</li> <li>6. Take to Authorized Service Center.</li> <li>7. Clean or replace crankcase breather.</li> </ol>

8. Air blowing from inlet filter.	1. Damaged inlet (reed) valve.	1. Take to Authorized Service Center.
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9. Crankcase lubricant is milky.	1. Water in lubricant due to humidity or condensation.	1. Change lubricant. Move compressor or air inlet to less humid atmosphere.
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10. Compressor runs backwards.	1. Reversed wiring polarity.	1. Contact qualified electrician.
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11. Insufficient pressure at tool or accessory.	<ol style="list-style-type: none"> <li>1. Leaks or restrictions.</li> <li>2. Restricted air intake (filter plugged).</li> <li>3. Slipping belt.</li> <li>4. Hose or hose connectors too small.</li> <li>5. Compressor incorrectly sized.</li> <li>6. Regulator not turned up to high enough pressure / faulty regulator.</li> </ol>	<ol style="list-style-type: none"> <li>1. Check for leaks or restrictions in hose or piping. Repair.</li> <li>2. Clean or replace filter.</li> <li>3. Tighten belt (refer to Belt Alignment &amp; Adjustment).</li> <li>4. Replace with larger hose or connectors.</li> <li>5. Either use a smaller tool or a larger compressor.</li> <li>6. Turn the regulator to the proper setting / replace faulty regulator.</li> </ol>
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12. Tank loses pressure rapidly when compressor shuts off.	<ol style="list-style-type: none"> <li>1. Loose connection or leak (pipe, tank drain valve, tubing, fitting or hose).</li> <li>2. Faulty check valve.</li> </ol>	<ol style="list-style-type: none"> <li>1. Turn unit off, unplug it, &amp; tighten or replace fittings or components.</li> <li>2. Replace faulty check valve.</li> </ol>
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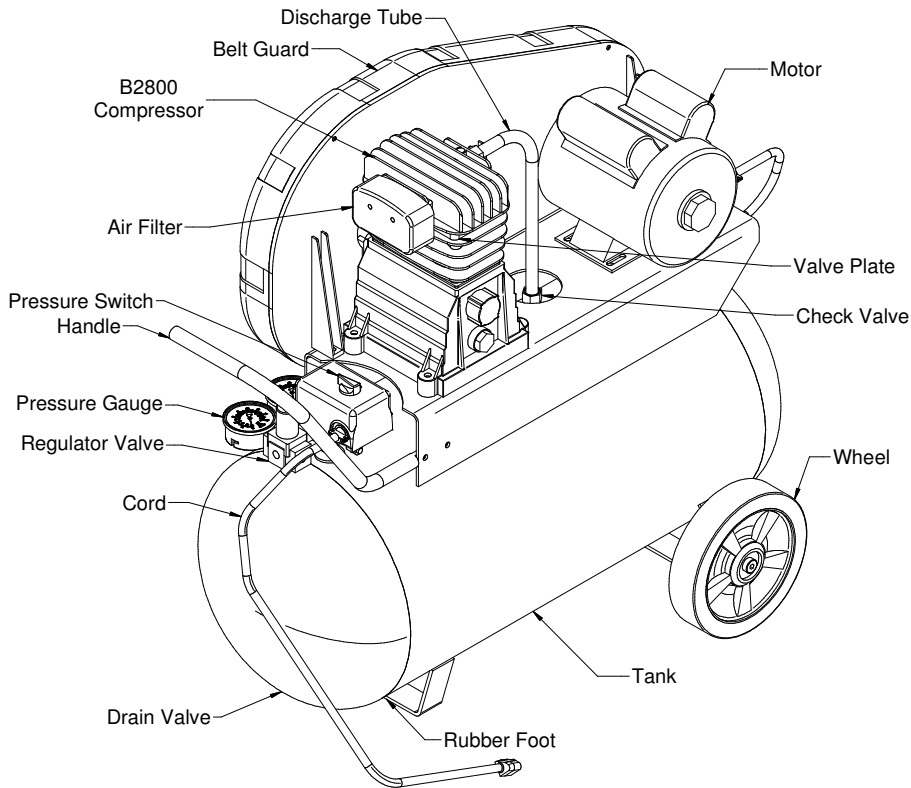
PROBLEM	CAUSES	CORRECTION
13. Moisture in discharge air.	1. Condensation in tank, caused by high level of atmospheric humidity or compressor is not run long enough.	1. Drain tank after every use. Drain tank more frequently in humid weather & use an air line filter.
14. Compressor unit runs continuously.	1. Defective pressure switch. 2. Compressor incorrectly sized.	1. Replace defective pressure switch. 2. Limit the air pressure to the compressor's capacity. Either use a smaller tool or a larger compressor.
15. Compressor overheats.	1. High ambient temperature; inadequate ventilation. 2. Dirty cylinder & head cooling fins. 3. Unit is undersized for application. 4. Insufficient lubrication. 5. Compressor runs backwards. 6. One or more head valves failing to seat properly. 7. Damaged cylinder head gasket. 8. Restriction in head or check valve.	1. Increase ventilation with cooler air. 2. Clean all outer surfaces of the compressor. 3. Re-evaluate application requirements; re-size if necessary. 4. Inspect for proper lubricant and amount. Refer to LUBRICATION. Do not operate this compressor more than 10° off level. 5. Take to authorized service center. 6. Take to authorized service center. 7. Take to authorized service center. 8. Inspect, clean or replace.
16. Pressure relief valve continually "pops".	1. Defective pressure switch. 2. Faulty pressure switch setting. 3. Defective pressure relief valve. 1. Replace pressure switch.	2. Re-set pressure switch (by qualified technician). 3. Replace pressure relief valve.



# COMPRESSOR UNIT PARTS

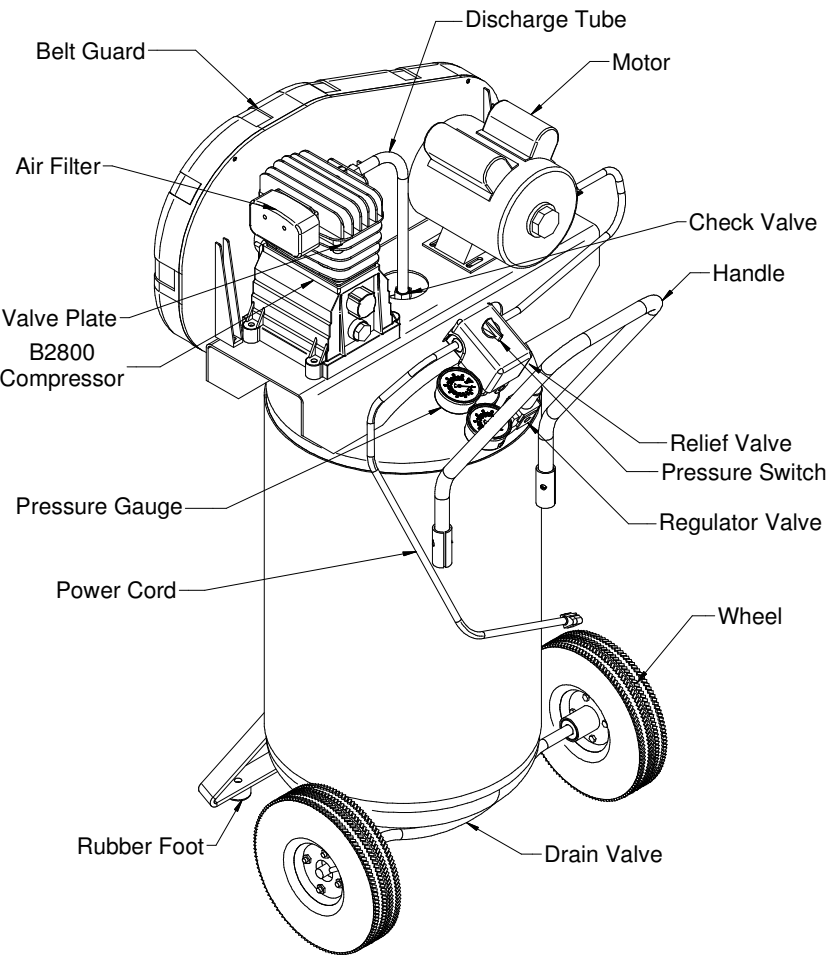
## Model Q12120P

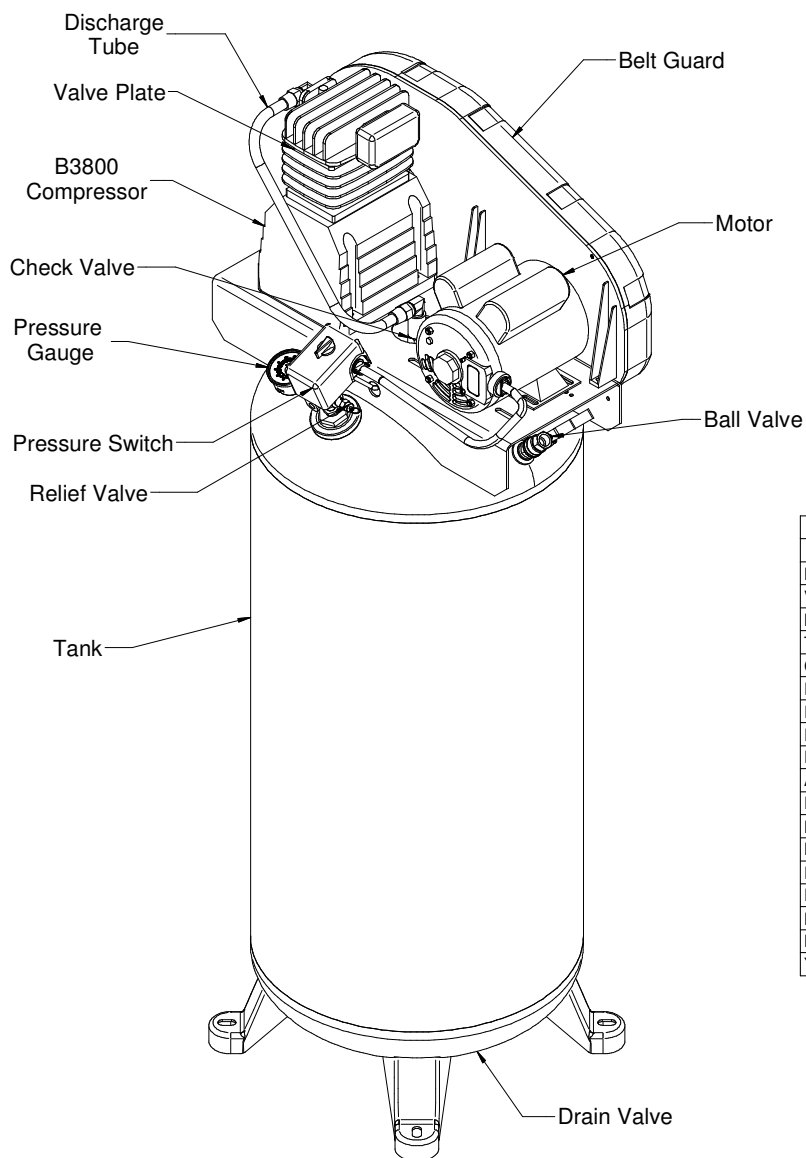
Parts List		
DESCRIPTION	PART NUMBER	QTY
B2800 Compressor	1312100119	1
Valve Plate	6229024900	1
Motor	1312100388	1
Tank	1312100599	1
Check Valve	1312100170	1
Pressure Switch	1312100455	1
Relief Valve	1312100005	1
Pressure Gauge	1312100006	2
Discharge Tube	1312100213	1
Air Filter Kit	6229020500	1
Drain Valve	1312100360	1
Belt Guard (Front)	6214343100	1
Belt Guard (Back)	2236110472	1
Drive Pulley	1312100440	1
Drive Belt	1312100129	1
Rubber Foot	1312101014	1
Power Cord	1312100007	1
Wheel	1312100060	2
Handle	2236107285	1
Regulator Valve	1312100002	1
Lubricant Kit	1310710108	1
Yearly Maintenance Kit	1312100164	1



## Model Q12126VP

Parts List		
DESCRIPTION	PART NUMBER	QTY
B2800 Compressor	1312100119	1
Valve Plate	6229024900	1
Motor	1312100388	1
Tank	1312100603	1
Check Valve	1312100170	1
Pressure Switch	1312100455	1
Relief Valve	1312100005	1
Pressure Gauge	1312100006	2
Discharge Tube	1312100213	1
Air Filter Kit	6229020500	1
Drain Valve	1312100360	1
Belt Guard (Front)	6214343100	1
Belt Guard (Back)	2236110472	1
Drive Pulley	1312100440	1
Drive Belt	1312100129	1
Rubber Foot	1312100411	2
Power Cord	1312100007	1
Wheel	1312100029	2
Handle	2236107294	1
Regulator Valve	1312100002	1
Lubricant Kit	1310710108	1
Yearly Maintenance Kit	1312100164	1

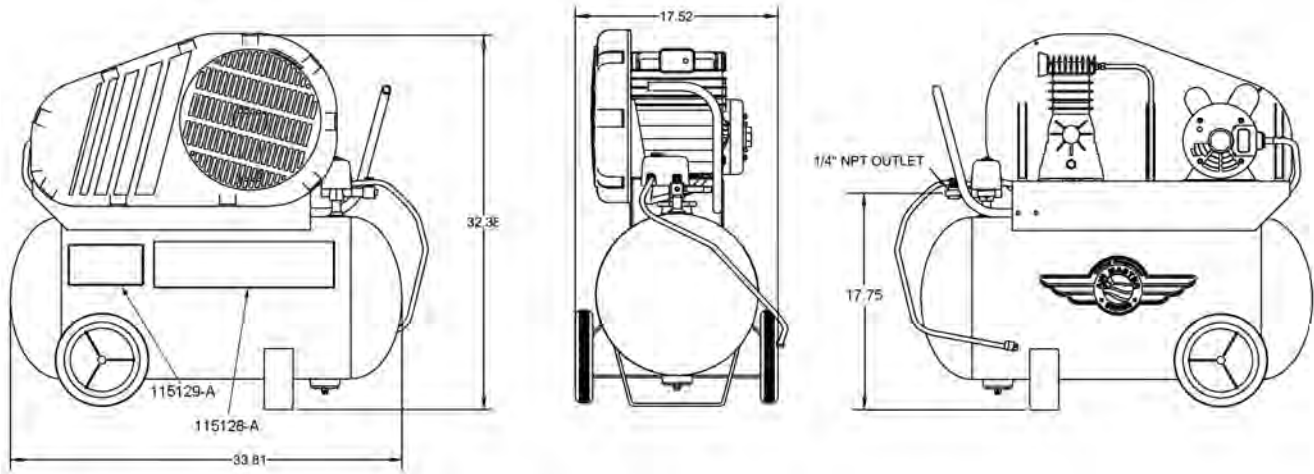




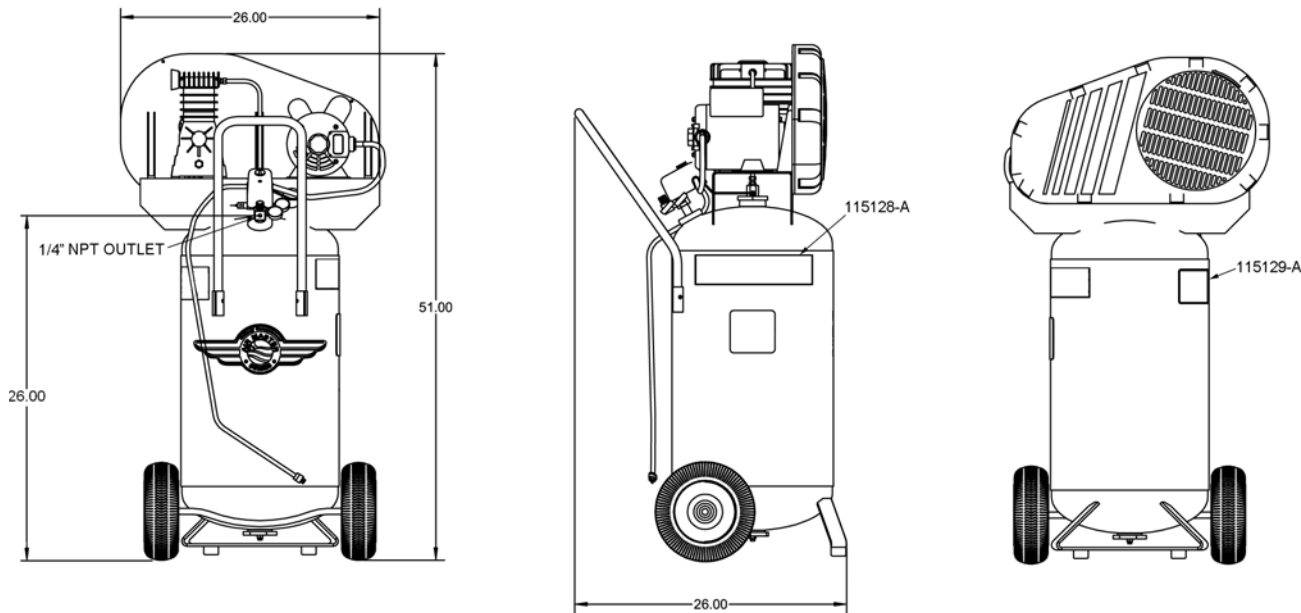
## Model Q13160V

Parts List		
DESCRIPTION	PART NUMBER	QTY
B3800 Compressor	1312100123	1
Valve Plate	6229024900	1
Motor	1312100390	1
Tank	1312100604	1
Check Valve	1312100170	1
Pressure Switch	1312100455	1
Relief Valve	1312100005	1
Pressure Gauge	1312100028	1
Discharge Tube	1312100207	1
Air Filter Kit	6229020500	1
Drain Valve	1312100360	1
Belt Guard (Front)	6214343100	1
Belt Guard (Back)	2236110472	1
Drive Pulley	1312100442	1
Drive Belt	1312100134	1
Ball Valve	1312100162	1
Lubricant Kit	1310710108	1
Yearly Maintenance Kit	1312100164	1

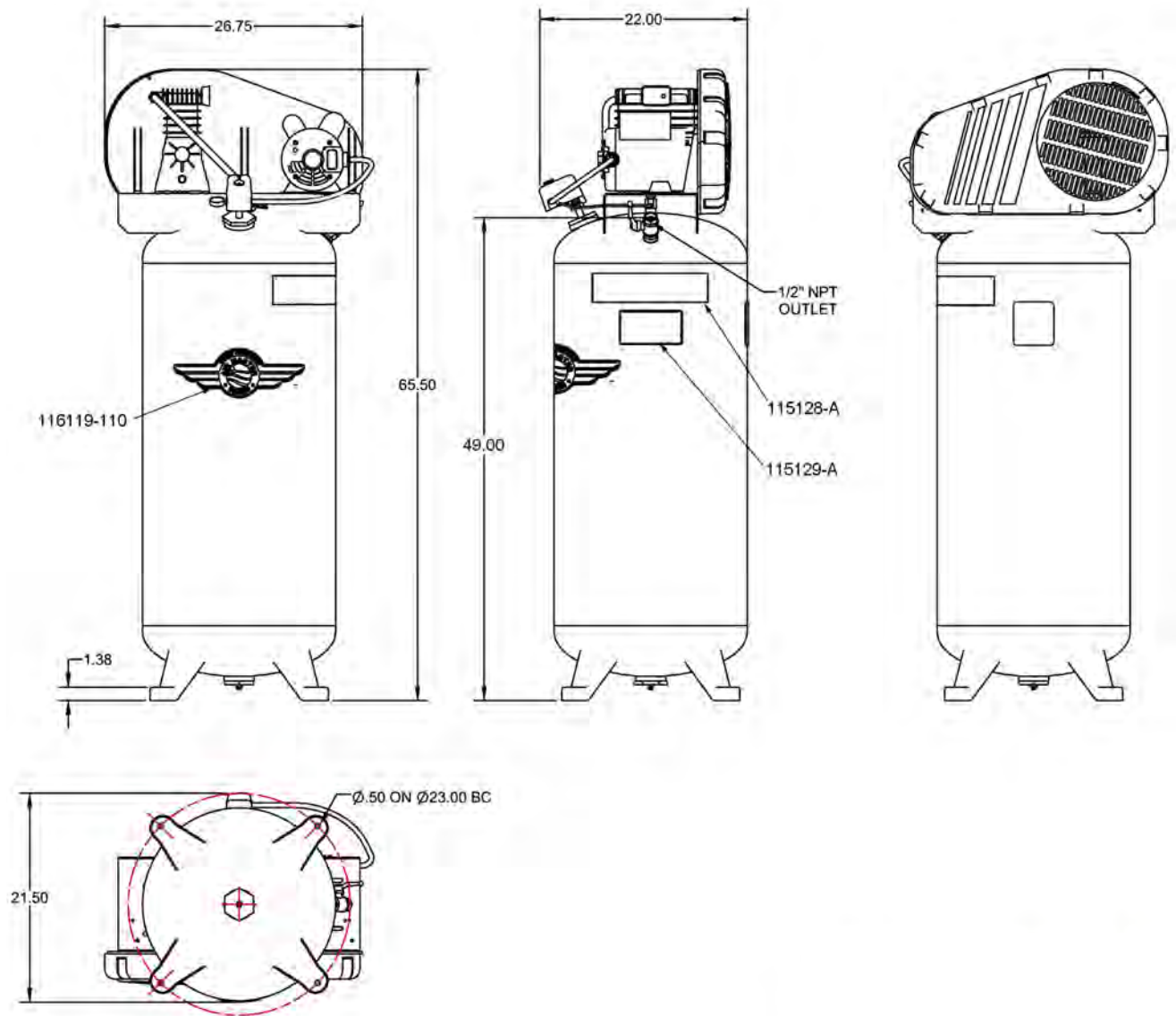
# DECALS AND DIMENSIONS



**Model Q12120P**



**Model Q12126VP**



**Model Q13160V**

## QUINCY COMPRESSOR STANDARD TERMS AND CONDITIONS

**LEGAL EFFECT:** Except as expressly otherwise agreed to in writing by an authorized representative of Seller, the following terms and conditions shall apply to and form a part of this order and any additional and/or different terms of Buyer's purchase order or other form of acceptance are rejected in advance and shall not become a part of this order.

The rights of Buyer hereunder shall be neither assignable nor transferable except with the written consent of Seller.

This order may not be canceled or altered except with the written consent of Seller and upon terms which will indemnify Seller against all loss occasioned thereby. All additional costs incurred by Seller due to changes in design or specifications, modification of this order or revision of product must be paid for by Buyer.

In addition to the rights and remedies conferred upon Seller by this order, Seller shall have all rights and remedies conferred at law and in equity and shall not be required to proceed with the performance of this order if Buyer is in default in the performance of such order or of any other contract or order with seller.

**TERMS OF PAYMENT:** Unless otherwise specified in the order acknowledgment, the terms of payment shall be 1% 15, net forty-five (45) days after shipment. These terms shall apply to partial as well as complete shipments. If any proceeding be initiated by or against Buyer under any bankruptcy or insolvency law, or in the judgment of Seller the financial condition of Buyer, at the time the equipment is ready for shipment, does not justify the terms of payment specified, Seller reserves the right to require full payment in cash prior to making shipment. If such payment is not received within fifteen (15) days after notification of readiness for shipment, Seller may cancel the order as to any unshipped item and require payment of its reasonable cancellation charges.

If Buyer delays shipment, payments based on date of shipment shall become due as of the date when ready for shipment. If Buyer delays completion of manufacture, Seller may elect to require payment according to percentage of completion. Equipment held for Buyer shall be at Buyer's risk and storage charges may be applied at the discretion of Seller.

Accounts past due shall bear interest at the highest rate lawful to contract for but if there is no limit set by law, such interest shall be eighteen percent (18%). Buyer shall pay all cost and expenses, including reasonable attorney's fees, incurred in collecting the same, and no claim, except claims within Seller's warranty of material or workmanship, as stated below, will be recognized unless delivered in writing to Seller within thirty (30) days after date of shipment.

**TAXES:** All prices exclude present and future sales, use, occupation, license, excise, and other taxes in respect of manufacture, sales or delivery, all of which shall be paid by Buyer unless included in the purchase price at the proper rate or a proper exemption certificate is furnished.

**ACCEPTANCE:** All offers to purchase, quotations and contracts of sales are subject to final acceptance by an authorized representative at Seller's plant.

**DELIVERY:** Except as otherwise specified in this quotation, delivery will be F. O. B. point of shipment. In the absence of exact shipping instruction, Seller will use its discretion regarding best means of insured shipment. No liability will be accepted by Seller for so doing. All transportation charges are at Buyer's expense. Time of delivery is an estimate only and is based upon the receipt of all information and necessary approvals. The shipping schedule shall not be construed to limit seller in making commitments for materials or in fabricating articles under this order in accordance with Seller's normal and reasonable production schedules.

Seller shall in no event be liable for delays caused by fires, acts of God, strikes, labor difficulties, acts of governmental or military authorities, delays in transportation or procuring materials, or causes of any kind beyond Seller's control. No provision for liquidated damages for any cause shall apply under this order. Buyer shall accept delivery within thirty (30) days after receipt of notification of readiness for shipment. Claims for shortages will be deemed to have been waived if not made in writing with ten (10) days after the receipt of the material in respect of which any such shortage is claimed. Seller is not responsible for loss or damage in transit after having received "In Good Order" receipt from the carrier. All claims for loss or damage in transit should be made to the carrier.

**TITLE & LIEN RIGHTS:** The equipment shall remain personal property, regardless of how affixed to any realty or structure. Until the price (including any notes given therefore) of the equipment has been fully paid in cash, Seller shall, in the event of Buyer's default, have the right to repossess such equipment.

**PATENT INFRINGEMENT:** If properly notified and given an opportunity to do so with friendly assistance, Seller will defend Buyer and the ultimate user of the equipment from any actual or alleged infringement of any published United States patent by the equipment or any part thereof furnished pursuant hereto (other than parts of special design, construction, or manufacture specified by and originating with Buyer), and will pay all damages and costs awarded by competent court in any suit thus defended or of which it may have had notice and opportunity to defend as aforesaid.

**STANDARD WARRANTY:** Seller warrants that products of its own manufacture will be free from defects in workmanship and materials under normal use and service for the period specified in the product instruction manual. Warranty for service parts will be Ninety (90) days from date of factory shipment. Electric Motors, gasoline and diesel engines, electrical apparatus and all other accessories, components and parts not manufactured by Seller are warranted only to the extent of the original manufacturer's warranty.

Notice of the alleged defect must be given to the Seller, in writing with all identifying details including serial number, type of equipment and date of purchase within thirty (30) days of the discovery of the same during the warranty period.

Seller's sole obligation on this warranty shall be, at its option, to repair or replace or refund the purchase price of any product or part thereof which proves to be defective. If requested by Seller, such product or part thereof must be promptly returned to seller, freight prepaid, for inspection.

Seller warrants repaired or replaced parts of its own manufacture against defects in materials and workmanship under normal use and service for ninety (90) days or for the remainder of the warranty on the product being repaired.

This warranty shall not apply and Seller shall not be responsible or liable for:

- (a) Consequential, collateral or special losses or damages;
- (b) Equipment conditions caused by fair wear and tear, abnormal conditions of use, accident, neglect or misuse of equipment, improper storage or damage resulting during shipping;
- (c) Deviation from operating instructions, specifications or other special terms of sale;
- (d) Labor charges, loss or damage resulting from improper operation, maintenance or repairs made by person(s) other than Seller or Seller's authorized service station.

In no event shall Seller be liable for any claims whether arising from breach of contract or warranty or claims of negligence or negligent manufacture in excess of the purchase price.

**THIS WARRANTY IS THE SOLE WARRANTY OF SELLERS AND ANY OTHER WARRANTIES, WHETHER EXPRESS OR IMPLIED IN LAW OR IMPLIED IN FACT, INCLUDING ANY WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR USE ARE HEREBY SPECIFICALLY EXCLUDED.**

**LIABILITY LIMITATIONS:** Under no circumstances shall the Seller have any liability for liquidated damages or for collateral, consequential or special damages or for loss of profits, or for actual losses or for loss of production or progress of construction, whether resulting from delays in delivery or performance, breach of warranty, negligent manufacture or otherwise.

**ENVIRONMENTAL AND OSHA REQUIREMENTS:** At the time of shipment of the equipment from the factory, Quincy Compressor / Ortman Fluid Power will comply with the various Federal, State and local laws and regulations concerning occupational health and safety and pollution. However, in the installation and operation of the equipment and other matters over which the seller has no control, the Seller assumes no responsibility for compliance with those laws and regulations, whether by the way of indemnity, warranty or otherwise.

June 30, 2003

Quincy Compressor