Owners Manual

5-7.5 HP Electric Reciprocating Compressor



Introduction

Congratulations on the purchase of your new air compressor. The air compressor is precision built from the finest materials using the finest state of the art design, and high tech engineering available today. Quality, performance and trouble free operation will assure you a dependable supply of air power on demand

CAUTION READ THIS MANUAL CAREFULLY before operating or servicing this air compressor, to familiarize yourself with the proper safety, operation, and standard operating procedures of this unit. FAILURE TO COMPLY WITH INSTRUCTIONS IN THIS MANUAL COULD RESULT IN THE VOIDING OF YOUR WARRANTY, AND PERSONAL INJURY, AND/OR PROPERTY DAMAGE. THE MANUFACTURER OF THIS AIR COMPRESSOR WILL NOT BE LIABLE FOR ANY DAMAGE BECAUSE OF FAILURE TO FOLLOW THE INSTRUCTIONS IN THIS MANUAL. By following the instructions and recommendations in this manual you will ensure a longer and safer service life of your air compressor.

If you have questions or need clarification about this manual or your compressor call 800-531-9656

Do not operate compressor outdoors in wet weather



Quality Air Compressor at a Great Price.

SAFETY PRECAUTIONS AND WARNINGS

Listed are some, but not all safety precautions that must be observed with compressors and compressed air systems. Failure to follow any of these warnings may result in severe personal injury, death, property damage and/or compressor damage.

Air from this compressor will cause severe injury or death if used for breathing or food processing. Air used for these processes must meet OSHA 29 CFR 1910 or FDA 21 178.3570 regulations.

This compressor is designed for use in the compression of normal atmospheric air only. No other gases, vapors or fumes should be exposed to the compressor intake, nor processed through the compressor.

Disconnect all power supplies to the compressor plus any remote controllers prior to servicing the unit.

Relieve all pressure internal to the compressor prior to servicing.

Do not depend on check valves to hold system pressure.

A properly sized safety valve must be installed in the discharge piping ahead (upstream) of any shutoff valve (block valve), heat exchanger, orifice or any potential blockage point. Failure to install a safety relief valve could result in rupturing or explosion of some compressor or safety component.

Do not change the pressure setting of the safety relief valve, restrict the function of the safety relief valve, or replace the safety valve with a plug.

Over pressurization of some system or compressor component can occur, resulting in severe personal injury, death and property damage.

Never use plastic pipe, rubber hose, or soldered joints in any part of the compressed air system. Failure to ensure system compatibility with compressor piping is dangerously unsound.

Never use a flammable or toxic solvent for cleaning the air filter or any parts.

Do not attempt to service any part while the compressor is operating.

Do not operate the compressor at pressures in excess of its rating.

Do not remove any guards while the compressor is operating.

Observe gauges daily to ensure compressor is operating properly.

Follow all maintenance procedures and check all safety devices on schedule.

Compressed air is dangerous, do not play with it.

Use the correct lubricant at all times.

Troubleshooting Chart

NOTE: TROUBLESHOOTING PROBLEMS MAY HAVE SIMILAR CAUSES AND SOLUTIONS

You should always contact an authorized service center before attempting to fix or repair your air compressor

Always make sure electrical power is off before removing any inspection covers or plates

Problem	Possible causes	Solutions
Breaker Trips	 Low Voltage supply Motor overloads tripped Restricted air passages Loose wires at contact points Seized Pump 	 Check that incoming power wire size is adequate for compressor Check that compressor is on dedicated circuit Adjust belt tension Check wire connections to make sure they are tight Inspect transfer tubes and, check valve
Compressor Stalls	 Low voltage supply to compressor Loose compressor belts Bad check valve Seized compressor pump 	 Check compressor power supply for adequate breaker and wire size Inspect check valve for proper operation Tighten belts Check compressor for proper oil level
Low Discharge Pressure	 Air leaks in shop Leaking valves Restricted air intake Blown gaskets/seals Worn piston rings or cylinder 	 Tighten or replace leaking fittings, or joints Clean or replace air filter
Compressor Pump Knocking	 Loose motor pulley or compressor flywheel Low oil level in compressor pump Carbon build up on valve and piston 	 Tighten pulley or flywheel Keep oil level at recommended level for proper operation Only use factory recommended oil

Troubleshooting Chart (continued)

NOTE: TROUBLESHOOTING PROBLEMS MAY HAVE SIMILAR CAUSES AND SOLUTIONS

You should always contact an authorized service center before attempting to fix or repair your air compressor

Always make sure electrical power is off before removing any inspection covers or plates

Problem	Possible causes	Solutions
Excessive oil discharge in air (All Compressors have a small amount of oil carry over in compression	 Worn piston rings or cylinder Restricted air intake Oil level to high Compressor has exceeded it duty cycle 	 Clean or replace air filters Reduce oil level to recommended amount Reduce compressor duty cycle (repair leaks or add another unit to handle the excess demand)
Compressor Overheating	 Poor ventilation Dirty cooling surfaces Compressor is out of its operating duty cycle 	 Relocate compressor to any area with better ventilation (at least 18 inches from the nearest wall) Clean all cooling surfaces Reduce compressor duty cycle (repair leaks or add another unit to handle the excess demand)
Excessive Belt Wear	 Pulley out of alignment Improper belt tension Pulley damaged of loose 	 Realign pulley with flywheel Re adjust belt tension
Compressor wont start in Cold weather	 Bad check valve Compressor has wrong grade oil Control lines frozen 	 Use IS 100 (30W) compressor oil for cold weather conditions Move compressor to a warmer location Put a heat lamp on compressor to maintain above freezing temperatures

Troubleshooting Chart (continued)

NOTE: TROUBLESHOOTING PROBLEMS MAY HAVE SIMILAR CAUSES AND SOLUTIONS

You should always contact an authorized service center before attempting to fix or repair your air compressor

Always make sure electrical power is off before removing any inspection covers or plates

Problem	Possible causes	Solutions
Compressor Motor Hums wont start	 Fuse or Breaker blown in main panel (or fuse in fused disconnect if applicable) Low voltage to compressor Compressor starting with head pressure Power leads in motor or magnetic starter loose Starter or Pressure switch contacts corroded or broken 	 Re-set breaker or replace blown fuse Inspect check valve for proper operation Check all power wire lead to solid connection Replace starter and Pressure switch
Unit has power but wont run	 Starter tripped Starter coil out Pressure switch closed Low Oil monitor tripped (Elite units) Motor or Pump locked up 	 Re-set starter Replace starter and Pressure switch Check unit for proper oil level Replace motor or pump
Compressor Chatters (run and stops in a short period of time)	 Pressure switch connection corroded Starter is not getting enough voltage to close coil Low oil switch tripping 	 Replace pressure switch Check unit voltage Check the oil level in the unit

NOTE: Low Voltage-Low voltage can cause a multitude of problems. The most common cause of low voltage is when the wire size supplying the power to the compressor is too small. The longer the run of wire the larger the diameter must be to overcome the inherent voltage loss caused by the wire resistance. The supply voltage at the main panel could also be low as supplied by you local power company or you may have too many other pieces of equipment running off the same panel. You local electrician should be contacted to evaluate and correct the problem according to the Nation Electric Code. Other Symptoms of low voltage can be flickering lights and computer screen when the compressor tries to turn on.

Compressor Maintenance

Warning: To avoid personal injury, always shut OFF the main power supply and disconnects to the compressor, relive all air pressure from the system, and check electrical system with electrical probe before starting any service or maintenance on the compressor.

Daily:

Drain the Receiver- condensation will accumulate in the tank daily, and should be drained at least once a day. This is done to reduce corrosions of the tank from the inside. Always wear protective eye wear when draining the tank.

Check Pump Oil Level- All units have a sight glass the oil level non running units should be no lower than 1/2 way on the sight glass if it is lower then you need to add oil until it is at least 1/2 way up the sight glass.

Check unit for any unusual noise or vibrations.

Weekly:

Clean air filter: this will ensure that no dirt or heavy particulate makes its way into the compressors valve assemblies.

Clean external parts of compressor and electric motor: this helps to ensure proper cooling and prevents rust and corrosion on critical parts.

Check safety Valves: this is don't to ensure they are not stuck in place and operating properly.

Elite Units Check auto tank drain for proper function

Monthly:

Inspect complete air system for leaks: this is done to make sure the compressor does not get out of its duty cycle due to air leak in the system.

Inspect Oil for Contamination: this is done to ensure that harmful deposits do not build up in the oil.

Check belt tension: this is done to ensure the belt do not fail pre-maturely, tighten them as needed to ensure they do not slip. If belts are loose, tighten per instructions on next page. Failure to tighten can cause pre-mature belt failure.

Every 3 months:

Change Oil: this is done to ensure that the compressor has proper oil level and that the oil in the machine does not deteriorate past factory specifications.

Inspect Valve assemblies: this is done to prevent premature failure and clean out and carbon that can form in older valves.

***Elite Units.** Clean auto tank drain strainer and check for proper function.

Inspect pressure switch for proper function.

Inspect check valve for proper function and remove any carbon accumulation to prevent premature failure.

*Clean belt guard coolers (if equipped).

Storage of Compressor:

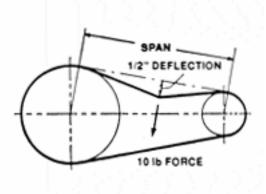
Before storing the compressor for a prolonged period of time, use a blow gun to clean all debris from compressor. Shut OFF main power and turn OFF disconnect. Drain tank pressure, clean air filter, drain old oil and replace with new oil. Cover the unit to prevent dust and moisture from collecting on the unit.

Adjusting Belt Tension

Proper belt tension and pulley alignment must be maintained for maximum drive efficiency and for maximum belt life. The correct tensions exists if a deflection of ½ inch occurs by placing 10lbs of force midway between the motor pulley and the compressor flywheel. This deflection can be adjusted by the following procedure. The pulley should be carefully aligned with the flywheel and set screws should be kept tight.

- 1. Remove the belt guard
- 2. Loosen the motor mounting bolts
- 3. Shift the motor to the point where the correct deflection exists
- 4. Retighten the motor mounting belts
- 5. Check to ensure that the tension remain correct after tightening
- 6. Re-install the belt guard. All moving parts must be guarded

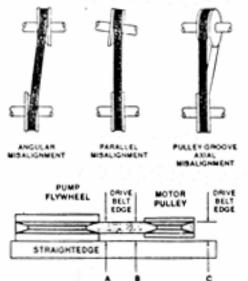
NOTE: Drive belt tension and pulley alignment are done at the same time. They are discussed separately for clarity.



Pulley Alignment

The figure to the side shows 3 examples of misaligned pulleys. To check pulley alignment, remove the belt guard and place a straightedge against the compressor flywheel, measure and record the distance from the straightedge to the edge of the drive belt. Then measure the distance to the edge of the drive belt on the motor pulley at the same edge. As long as both points measure the same distance the pulleys will be aligned if not you will need to move the pulley until its in alignment this may take a few tries. To re-align the pulley follow the steps below

- 1. Loosen the motor mounting bolts
- 2. Remove the belt guard
- 3. Loosen the set screw on the motor pulley
- 4. Align the motor pulley with the compressor flywheel
- 5. Re-tighten the motor pulley set screws
- 6. Adjust the proper belt tension
- 7. Re-tighten the motor mounting bolts
- 8. Re-install the belt guard



Description of Compressor

What is a reciprocating compressor

A reciprocating compressor is a piston type pump which develops pressure from the action of a piston moving through a cylinder. The cylinder, or cylinders, may be vertical, horizontal or angular.

When air is drawn in from the atmosphere and compressed to its final pressure in a single stroke, the compressor is referred to as a "single stage" pump. Single stage units normally are used in the 90 to 125 PSI range and are available as single or multi-cylinder (twin cylinder) compressors.

When the air drawn from the atmosphere is compressed first to an intermediate pressure, and then further compressed to a higher pressure, it is done in a "two stage" pump. These cylinders are unequal in size and the first stage always takes place in the larger, low pressure cylinder. From there it passes through the inner cooler to the smaller, high pressure cylinder. The cycle is completed as the air then moves through the after cooler and discharge line into the tank. Two stage compressors are generally used for pressure ranges from 100 to 175 PSI and deliver more air per horsepower at these pressures. This increase in efficiency is partially due to the heat dissipated as the air passes through the inner cooler.

Description Of Cooling

Our compressors are cooled by fan blades, incorporated into the driven sheave (pulley), blowing air across the intercooler, after cooler, and cylinder head.

Description Of Controls

Stop/Start Receiver or plant air system pressure is controlled within limits by a pressure switch automatically stopping and starting the compressor as the air pressure reaches a maximum preset pressure (cut out) and then drops to a minimum presser pressure (cut in).

Receiving and Uncrating of your Compressor

Before uncrating the compressor the following steps should be taken.

- 1. Immediately upon receipt of the equipment, it should be inspected for damage that may have occurred during shipment. If any damage is found, demand an inspection immediately by an inspector from the carrier. Ask him how to file a claim for damages. (See Appendix "A" for Details).
- 2. Insure that adequate lifting equipment is available for moving the machinery.
- 3. Read the compressor nameplate to be sure the compressor is the model and size ordered.
- 4. Read the motor nameplate to be sure the motor is compatible with your electrical conditions. (Volts-Phase-Hertz).

NOTE: Standard motors are open drip proof with a maximum ambient temperature rating of 104 degrees F. They are not suitable for salt laden, corrosive, dirty, wet, or explosive environments.



Improper lifting can result in component or system damage or personal injury. Follow good shop practices and safety procedures



Under no circumstances should a compressor be placed in an area that may be exposed to a flammable, toxic, volatile or corrosive atmosphere nor should flammable, toxic, volatile or corrosive agents be stored near the compressor.

Compressor Installation

LOCATION

Locate the compressor in an indoor area that is clean, dry, well lighted, and well ventilated, with sufficient space for safe and proper inspection and maintenance. Ambient temperatures should not exceed 104 degrees F or fall below 30 degrees unless an electric motor rated for a higher temperature is used. Inspection and maintenance checks are required daily, therefore, ample space is required around the compressor.

The compressor must not be installed closer than fifteen inches from a wall or from another compressor to allow ample circulation or air across the compressor cylinders and head, and through the coolers if they are part of the system. Additional safety can be achieved by locating the pulley guard next to the wall.

MOUNTING

The use of the factory supplied rubber vibration isolation pads, or other factory supplied vibration isolation mounting equipment is required for tank warranty from the original tank manufacturer. The compressor should never be left on original shipping material for installation. If a shim is required to level the unit, place it between the pad and floor. If you bolt the unit to the floor, use the bolts as guide pins and do not tighten the bolts. The rubber pads are used to absorb machine vibration and cannot work effectively if bolted tightly.

INDUCTION SYSTEM

Do not locate the compressor where it could ingest or ignite toxic, explosive or corrosive vapors, ambient air temperatures exceeding 110 degrees F, water or extremely dirty air. Ingestion of any of the above noted atmospheres by the compressor could jeopardize the performance of the equipment and all personnel exposed to the total compressed air system.

Destructive pulsations can be induced by reciprocating compressors that will damage walls and break windows. Pulsation can be minimized by adding a pulsation dampener on the inlet side of the compressor.

For compressor tank to have full manufacturer warranty. The tank must be installed properly on manufacturer supplied vibration pads per compressor manual. Failure to do so can void compressor tank warranty and cause tank cracks or failures.

On Electric compressors all electrical connections must be wired and installed per NEC (National Electric Code) (See the back of the manual for NEC code) and all local applicable codes for full electric component warranty. Failure to do so can void compressor electrical warranty.

NOISE

Noise is a potential health hazard that must be considered. There are local and federal laws specifying maximum acceptable noise levels that must not be exceeded. Most of the noise from a reciprocating compressor originates from the air inlet point. Excessive noise can be greatly reduced by installing an intake noise silencer.

PIPING FITUP

Care must be taken to avoid assembling the piping in a strain with the compressor. It should line up without having to spring or twist into position. Adequate expansion loops or bends should be installed to prevent undue stresses at the compressor resulting from the changes between hot and cold conditions. Pipe support should be mounted independently of the compressor and anchored as necessary to limit vibration and prevent expansion strains.



Safety values are to protect system integrity in accordance with ASME Codes and ANSI B19.3 safety standards. Failure to use safety values of the proper capacity and pressure will cause severe personal injury or death.

NOTE: Standard motors are open drip proof with a maximum ambient temperature rating of 104 degrees F. They are not suitable for salt laden, corrosive, dirty, wet, or explosive environments.

SAFETY VALVES Safety valves are pressure relief valves and should be sized and purchased with a pressure setting to protect the weakest link in the system. Never change the pressure setting, only the safety valve manufacturer is qualified to make a change. Safety valves are to be place ahead of any potential blockage point which included but is not limited to, shutoff valves, heat exchangers, pulsation dampeners, and discharge silencers.

Failure to properly size, set and install pressure relief valves can be fatal.



ASME coded pressure vessels must not be modified, welded, repaired, reworded or subjected to operation conditions outside the nameplate ratings. Such actions will negate code status, affect insurance status and may cause severe personal injury, death, and property damage.

PRESSURE VESSELS

Air receiver tanks and other pressure containing vessels such as, but not limited to, pulsation bottles, heat exchangers, moisture separators and traps, shall be in accordance with ASME Boiler and Pressure Vessel Code Section VIII and ANSI B19.3 Safety Standards.



The installation, wiring, and all electrical controls must be in accordance with ANSI C1 National Electric Code, ANSE C2 National Electric Safety Code, state and local codes. All electrical work should be performed by a qualified electrician. Failure to abide by the national, state and local codes may result in physical and/or property damage.

ELECTRICAL

Before installation, the electrical supply should be checked for adequate wire size and transformer capacity. During installation a suitable fused or circuit breaker disconnect switch should be provided. Where a 3 phase motor is used to drive a compressor, any unreasonable voltage unbalance between the legs must be eliminated and any low voltage corrected to prevent excessive current draw. Compressors must be equipped with a properly wired magnetic motor starter or a pressure switch rated to carry the full motor current load. The coil which engages and disengages the contact points in the motor starter is controlled by the pressure switch. Never attempt to bypass the pressure switch or adjust it past the factory set pressure range. Improper installation of the electrical system can cause the motor to overheat or a short circuit to occur.



Electric power always exists inside the pressure switch when there is electric power at the compressor package. Either a qualified electrician should make the pressure adjustments or the electric power supply should be disconnected and locked out before making any adjustment.

NEVER exceed the designed pressure for the system or overload the motor beyond its service factor.

FAILURE TO HEED THESE WARNINGS MAY RESULT IN SERIOUS INJURY OR DEATH, PROPERTY DAMAGE AND/OR MECHANICAL FAILURE

PRESSURE SWITCH

The pressure switch is automatic in operation and is adjusted to start and stop the unit at the minimum and maximum desired air receiver pressure by cutting in and out the power to the electric motor. On some models, the pressure switch incorporates a release valve, which releases air between the check valve located in the receiver and discharge valve in the head of the compressor.



Relieve compressor and system air pressure by opening the appropriate manual relief valve prior to servicing. Failure to relieve all system pressure may result in severe personal injury, death and property damage.

MANUAL RELIEF AND SHUTOFF VALVES

Install a manual relief value to vent the compressor to atmosphere. In those instances where the air receiver tank services a single compressor, the manual relief value can be installed on the receiver. When a manual shut- off value, and a safety relief value installed upstream from the manual relief value. These values are to be designed and installed as to permit maintenance to be performed in a safe manner. Never substitute a check value for a manual shut-off value (block value) if the purpose is to isolate the compressor from a system for servicing.



Guards must be fastened in place before starting the compressor and never removed before cutting off and locking out the main power supply.

GUARDS

All mechanical action or motion is hazardous in varying degrees and needs to be guarded. Guarding shall be in compliance with OSHA Safety and Health Standards 29 CFR 1910.219 in OSHA manual 2206 and any state or local code.



Excessive speed of the compressor or driver can be lethal. Never operate the compressor beyond the manufacturer's recommendation. Bursting of the flywheel may be the greatest threat because the normal guard may not contain all the pieces. Crankshaft and connecting rod breakage is a possibility and compressor efficiency, valve life and bearing life will be abnormally reduced.

DRIVES

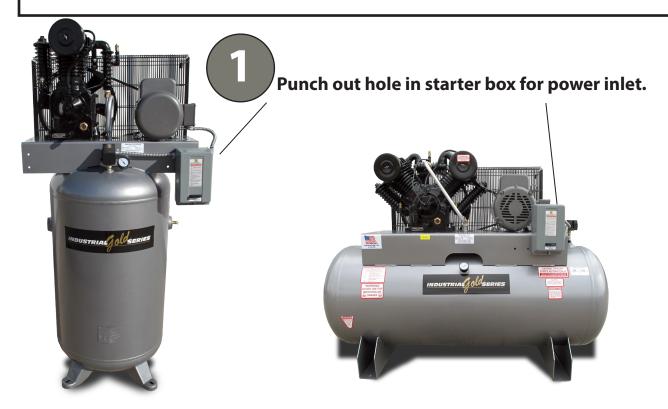
It is important that the compressor and motor pulleys are aligned properly and the V belt is correctly tensioned. Improper pulley alignment and belt tension are causes for motor overloading, excessive vibration, and premature belt and/or bearing failure.

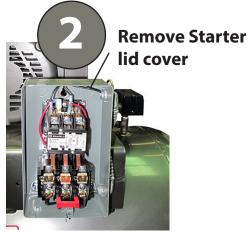
Removal or painting over safety labels will result in uninformed conditions. This may result in personal injury or property damage. Warnings signs and labels shall be provided with enough light to read, conspicuously located and maintained for legibility. Do not remove any warning, caution, or instructional material attached!

Provisions should be made to have the instruction manual readily available to the operator and maintenance personnel. If for any reason any part of the manual becomes illegible or if the manual is lost, have it replaced immediately. The instruction manual should be periodically read to refresh one's memory, it may prevent a serious or fatal accident.

3 Phase Piston Compressor Wiring Diagram

ALWAYS MAKE SURE POWER IS OFF BEFORE WIRING COMPRESSOR





4

Check all fitting to make sure that they are tight and place cover back on starter box before checking for correct rotation. If rotation is incorrect swap line 1 and line 3 to reverse rotation

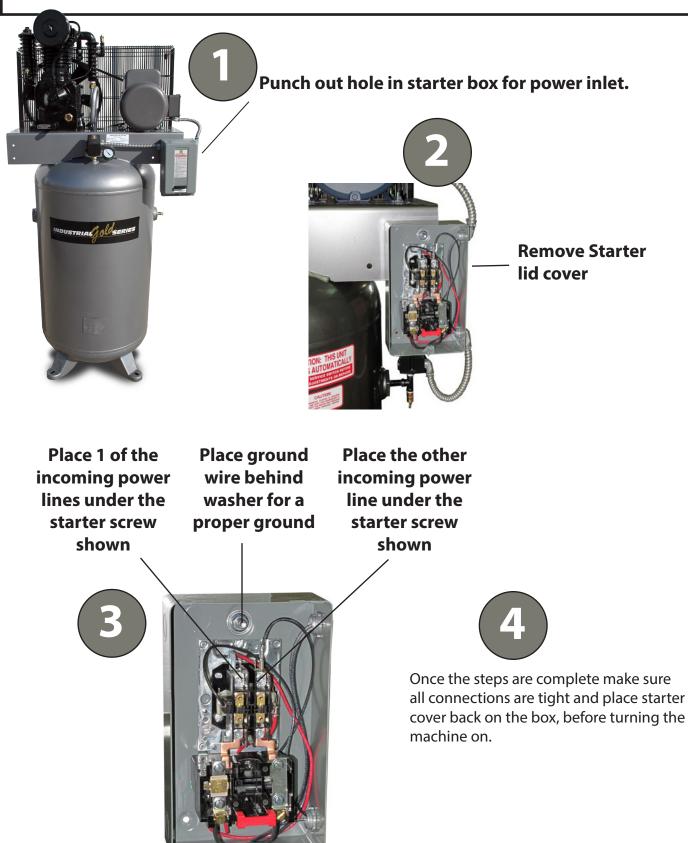
Place power line 1 under set screw Place power line 2 under set screw Place power line 3 under set screw



Place ground wire under washer

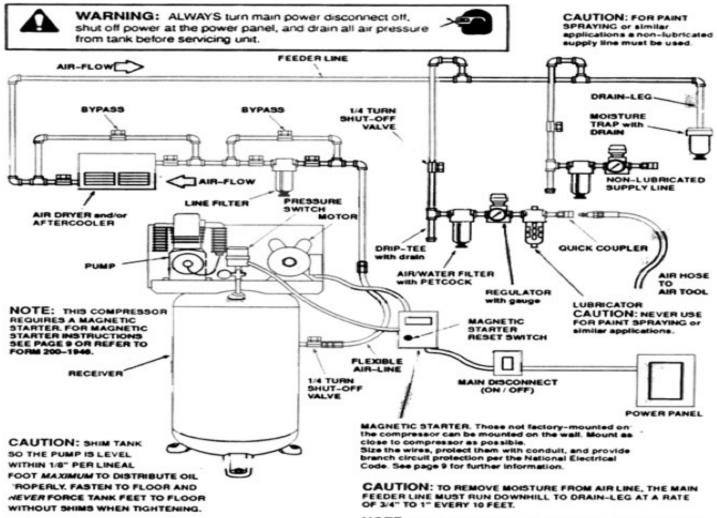
1 Phase Piston Compressor Wiring Diagram

ALWAYS MAKE SURE POWER IS OFF BEFORE WIRING COMPRESSOR



Installation Diagram

NOTE: This diagram is only a guide to a typical system. Consult your distributor for detailed information regarding your particular installation.



NOTE: RECOMMENDED PIPE AND FITTINGS: BLACK IRON PIPE no smaller than tank outlet size (NPT). For systems over 100 feet in length increase by one pipe size.

Start Up Preparation & Procedures

The following check list shall be adhered to before putting the compressor into operation.

FAILURE TO PERFORM THE CHECKS MAY RESULT IN SERIOUS INJURY OR DEATH, PROPERTY DAMAGE AND/OR MECHANICAL FAILURE. DISCONNECT AND LOCK OUT POWER SUPPLY.

- 1. Remove all loose pieces and tools around the compressor installation.
- 2. Check oil level in crankcase, add as necessary.
- 3. Check all pressure connections for tightness and leaks.
- 4. Check to make sure all safety relief valves are in place and operational.
- 5. Check to be sure all guards are in place and securely mounted.
- 6. Check fuses, circuit breakers and thermal overloads for proper size.
- 7. Open all manual shut-off valves (block valves) at and beyond the compressor discharge.

8. On all 3 phase units, after all of the above conditions have been satisfied, jog the starter switch button to check the rotational direction of the compressor. It should agree with the rotation arrow on the flywheel/ pulley (counter clockwise, facing the shaft).

The following procedures should be followed for start-up of a new installation, or after changes have been made to an existing installation, and/or after service repair work has been performed.

- 1. Instructions in addition to those contained within this manual, supplied by manufacturers of supporting equipment, must also be read and understood before start-up.
- 2. Check oil level in crankcase.
- 3. Drain moisture from air receiver and traps.
- 4. Start compressor and watch for excessive vibration or strange noises. If either is observed, stop the compressor immediately and correct.
- 5. Check air receiver or system pressure.
- 6. Manually activated safety relief valves by pulling ring or lever.
- 7. Check operation of controls.
- 8. After two days of operation check belt tension, air piping for leaks, and crankcase oil level.

Stopping for Maintenance or Service



Never assume the compressor is ready for maintenance or service because it is stopped. The automatic stopstart control may start the compressor at any time!

The following procedure should be followed to maximize safety when preparing for maintenance or service.

- 1. Disconnect and lock-out the main power switch and hang a sign at the switch Informing of the unit being serviced.
- 2. Close shut-off valve (block valve) between receiver and compressor, or receiver and Plant air system, to prevent any back-up of air flow into the area to be serviced.
- 3. Lock open manual vent valve and wait for the pressure in the area to be serviced (compressor, receiver, etc.) to be completely relieved before starting service. The Manual vent valve may be the drain valve in the receiver. NEVER remove a plug to relieve the pressure.
- 4. Open all manual drain valves within the area to be serviced.
- 5. Wait for the unit to cool before starting service, (temperatures at 125 degrees F can burn the skin), some surface temperatures exceed 400 degrees F when the compressor is working).
- 6. Clean up all oils spills immediately to prevent slipping.

Maintenance Procedures Review

Daily:

Drain the Receiver- condensation will accumulate in the tank daily, and should be drained at least once a day. This is done to reduce corrosions of the tank from the inside. Always wear protective eye wear when draining the tank.

Check Pump Oil Level- All units have a sight glass the oil level non running units should be no lower than ¹/₂ way on the sight glass if it is lower then you need to add oil until it is at least ¹/₂ way up the sight glass.

Check unit for any unusual noise or vibrations.

Weekly:

Clean air filter: this will ensure that no dirt or heavy particulate makes its way into the compressors valve assemblies.

Clean external parts of compressor and electric motor: this helps to ensure proper cooling and prevents rust and corrosion on critical parts.

Check safety Valves: this is don't to ensure they are not stuck in place and operating properly.

Elite Units Check auto tank drain for proper function

Monthly:

Inspect complete air system for leaks: this is done to make sure the compressor does not get out of its duty cycle due to air leak in the system.

Inspect Oil for Contamination: this is done to ensure that harmful deposits do not build up in the oil.

Check belt tension: this is done to ensure the belt do not fail pre-maturely, tighten them as needed to ensure they do not slip. If belts are loose, tighten per instructions on next page. Failure to tighten can cause pre-mature belt failure.

Every 3 months:

Change Oil: this is done to ensure that the compressor has proper oil level and that the oil in the machine does not deteriorate past factory specifications.

Inspect Valve assemblies: this is done to prevent premature failure and clean out and carbon that can form in older valves.

***Elite Units.** Clean auto tank drain strainer and check for proper function.

Inspect pressure switch for proper function.

Inspect check valve for proper function and remove any carbon accumulation to prevent premature failure.

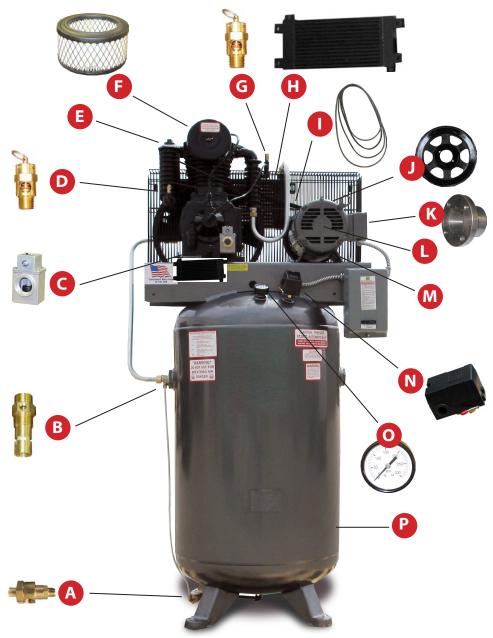
*Clean belt guard coolers (if equipped).

Storage of Compressor:

Before storing the compressor for a prolonged period of time, use a blow gun to clean all debris from compressor. Shut OFF main power and turn OFF disconnect. Drain tank pressure, clean air filter, drain old oil and replace with new oil. Cover the unit to prevent dust and moisture from collecting on the unit.

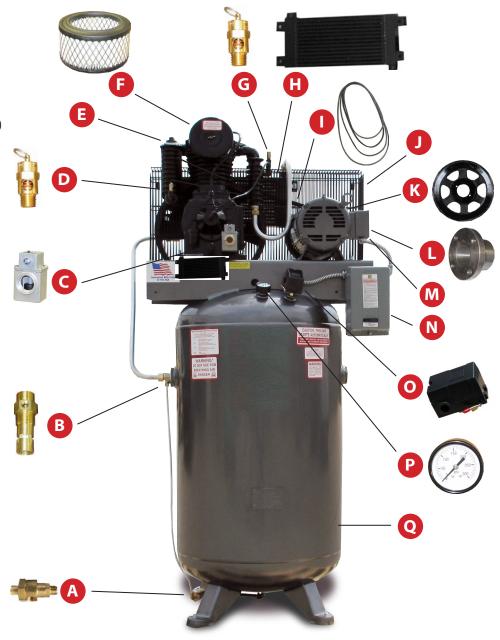
5 HP Breakdown

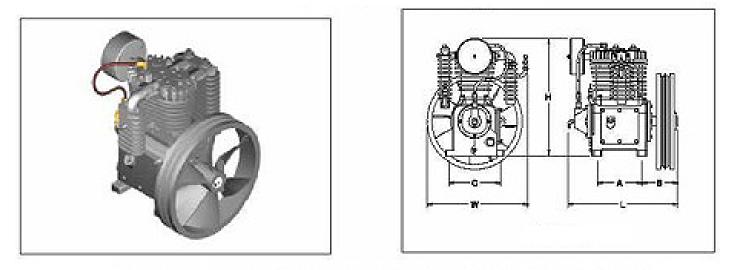
- A. Auto tank drain (IAT-WV-1)
- B. Check valve (IAT-CTD34X34)
- C. Low oil monitor (IAT-3353102-D)
- D. Inner cooler safety valve (IAT-ST25-70)
- E. Compressor pump (IAT-CI5)
- F. Air filter element (IAT-14)
- G. Discharge safety valve (IAT-ST25-200)
- H. Belt guard after cooler (IAT-M15-AL)
- I. Belts (IAT-B72)
- J. Pulley (IAT-LP2B775H)
- K. Motor Pulley hub (IAT-LPH11/8HUB)
- L. 5HP motor (IAT-L1430T) 3 PHASE (IAT-EM3218T) 1PHASE
- M. Mag starter (IAT-8911DPSG52V09)
- N. Pressure switch (IAT-LF10-1H3)
- O. Pressure gauge (IAT-PSB20)
- P. Tank Vert (IAT-300559) Horz (IAT-300569)



7.5HP Parts Breakdown

- A. Auto tank drain (IAT-WV-1)
- B. Check valve (IAT-CTD34X34)
- C. Low oil monitor (IAT-3353102-D)
- D. Inner cooler safety valve (IAT-ST25-70)
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- F. Air filter element (IAT-14)
- G. Discharge safety valve (IAT-ST25-200)
- H. Belt guard after cooler (IAT-M15-AL)
- I. Belts (IAT-B72)
- J Belt gaurd (IAT-BG5X20X32EU))
- K Pulley (IAT-LP2B975H)
- L. Motor Pulley hub (IAT-LPH13/8HUB)
- M. 7.5HP motor (IAT-L1510T) 1 PHASE (IAT-EM3311T) 3 PHASE
- N. Mag starter (IAT-8911DPSG13V09)
- O. Pressure switch (IAT-LF10-1H3)
- P. Pressure gauge (IAT-PSB20)
- Q. Tank Vert (IAT-300559) Horz (IAT-300569)





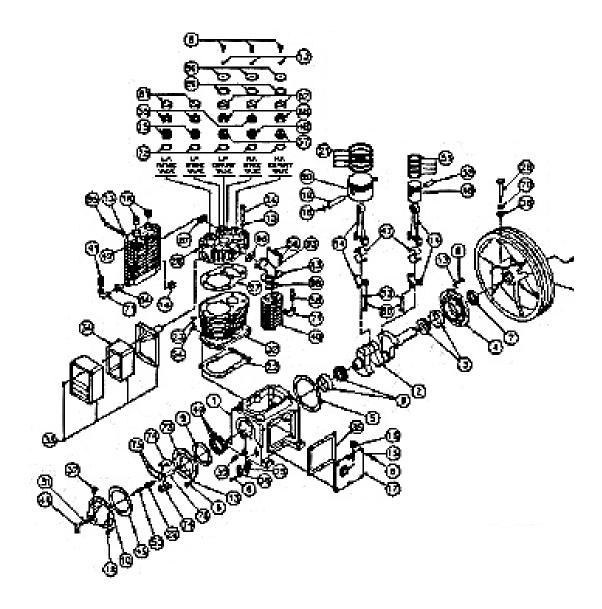
*Cast Iron Construction *Precision Cast Steel Crankshaft and Connecting Rods *Needle Bearings Top and bottom of Connecting Rod *Swedish Stainless Steel Valves*European Design *American Engineered *Ball Bearings on Ends of Crankshaft *Units Run Efficiently Over Wide range of rpm's, 600 to 1500 *High *Quality Components *Quality Assured Manufacturing *Quality Service *Competitive Prices

Performance			
an a	HP	7.5	8.5
Motor	KW	5.48	6.10
	psi	145	175
Pressure	bar	1.0	1.21
Cylinders		2	2
	inch	4.13	4.13
Piston LP	mm	105	105
	inch	2.16	2.16
Piston HP	mm	55	55
	linch	3.5	3.5
Stroke	mm	89	89
RPM		1100	1140
	DCFM	29.9	31
Displacement	m3/min	.85	.88
State States	ACFM	21.7	21.7
Air Delivered	m3/m	.62	.62
Efficiency %		72.5	70
	inch	17	17
Flywheel Dia.	mm	430	430
Groove Type		1/B	1/B

Dimensions		-
	inch	7.75
A	mm .	197
	inch	5.63
в	mm	1.44
	inch	9.0
C	mm	229
	inch	18
62	mm	457
	inch	17
W	mm	432
	inch	20
H	mm	508
Magaza -	kg	102
Weight	lb	225
QTY 20" container		144
QTY 40* container		216

LEGEND 1HP=.7457KW 1 inch=25.4mm 1 Bar=14.5psi 1KG=2.205lbs Cu. Meter=35.3CFM

5-7.5 hp Electric 8-15hp Gas/Diesel Two stage Cast iron Model CA1



7 046-0179 060068 Seal -Shaft 8 051-0054 050172 Bearing Set Rear 9 046-0227 070172 Gasket Rear Cap 10 077-0071 728004 Centrifugal Adapter Plate 11 044-0037 713002 Flywheel 16 7/8" 12 059-0156 110104 Capscrew Skt HD M6X20 13 060-0061 070201 Gasket Copper 14 047-0054 705000 Rod Connecting Aluminum w/bushing 15 043-0098 727000 Valve Assembly-LP Inlet 16 062-0006 160004 Plug Oil Fill-3/4" NPT 17 077-0069 020146 Cover Crankcase Side 18 054-0179 719064 Piston Ring Set LP 20 048-0054 720000 Wristpin-LP Piston 21 054-0167 070162 Gasket Cylinder To Crankcase 23 059-0167 110111 Capscrew Hex 12 X 70 24 059-0163 110107 Gasket Cylinder	ltem	CAS #	Part	Description	Qty
3 061-003 0601700 Bearing Set Front 4 045-0044 701000 Front Bearing Carter 5 046-0168 070163 Gasket Front Cap 7 0051-0054 060172 Bearing Interar 9 046-0227 070172 Bearing Interar 10 077-0071 723004 Centrifugal Adapter Plate 11 044-0037 713002 Flywheel 16 7/8" 12 058-0160 110104 Capscrew Ski HD M6/20 13 062-0101 07200 Basket Rear Cap 14 043-0098 727000 Valve Assembly-LP Inlet 16 062-0000 Trappring Intermal 17 077-0069 020146 Cover Crankcase Side 19 053-0179 729004 Piton Ring Set LP 21 054-0179 710044 Piton Ring Set LP 22 046-0167<					1
4 045-0044 701000 Front Bearing Carrier 5 046-0168 07163 Gasket Front Cap 6 059-0166 110117 Capacrew Hix M8X20 1 7 040-0179 060068 Seal-Shaft 1 8 044-0027 070172 Capacrew Hix M8X20 1 10 077-0071 Czapacrew SKI HD M6X20 1 11 044-0037 713002 Flywheel 16 7/8" 1 12 050-0156 110104 Capacrew SKI HD M6X20 1 13 060-0061 070201 Gasket Copper 1 14 047-0064 765000 Rod Connecting Aluminum wibushing 1 16 047-0069 020146 Cover Crankcase Side 1 20 046-0054 720000 Wristpin-LP Flaton 1 21 054-0179 719004 Platon Rig Set LP 1 22 064-0178 070171 Gasket Cylinder T X X 28 1 22 059-0167 1101017					1
5 046-0168 070163 Gaster Front Cap 7 046-0179 060068 Seal-Shaft					1
6 059-0166 110117 Capacrew Hex M8X20 13 7 046-0179 060088 Seal-Shaft 11 9 046-027 070172 Gasket Rear Cap 11 10 044-0037 713002 Epartme Statt Ho M8X20 12 12 059-0156 110104 Capacrew Statt Ho M8X20 12 13 060-0061 070201 Gasket Copper 12 14 047-0054 705000 Red Connecting Aluminum whushing 15 043-0098 727000 Valve Assembly-LP Inlet 16 062-0006 160004 Flug Ol Fill-344* NPT 17 064-0119 200100 Snapring Internal 18 064-0179 719004 Piston Ring Set LP 20 048-0054 720000 Piston Ring Set LP 21 054-0178 070171 Gasket Sight Glass 22 046-0166 070161 Gasket Sight Glass 23 059-0051 723003 Spring Unloader 24 0					1
7 046-0179 060068 Sear Shaft 8 051-0054 05172 Bearing Set Rear 9 046-0227 070172 Gasket Rear Cap 11 047-0071 728044 Centrifugal Adapter Plate 12 047-00571 728044 Centrifugal Adapter Plate 13 060-0061 070201 Gasket Copper 14 047-0054 705000 Rod Connecting Aluminum whushing 15 043-0096 727000 Valve Assembly-LP Inlet 16 052-0006 160004 Plug Oll Fill-S/4" NPT 17 077-0069 020146 Cover Crankcase Side 20 046-0054 720000 Platon LP 105mn 21 054-0179 719064 Platon LP 105mn 22 046-0167 070171 Gasket Cylinder To Crankcase 23 059-0159 110107 Capscrew Hax 12 X 70 24 059-0167 110106 Capscrew Hax 12 X 70 25 046-0178 070171 Gasket Sight Glase <					21
8 0511-0054 050172 Bearing Set Rear 9 046-0227 070172 Gasket Rear Cap 11 047-0054 771002 Flywheel 16 7/8" 12 058-0156 110104 Capacrew Skt HD M0X20 13 047-0054 705000 Valve Assembly-LP Inlet 14 047-0054 705000 Valve Assembly-LP Inlet 16 062-0006 160004 Plug OI Fill-34" NPT 17 077-0069 020146 Cover Crankcase Side 18 054-0119 200100 Snapring Internal 19 052-0027 720000 Wristpin-LP Piston 21 046-077 770172 Gasket Sight Gas 22 048-0167 110117 Capacrew Hex 10 X 25 24 059-0167 110107 Capacrew Hex 10 X 25 25 044-0178 070161 Gasket Sight Gas 26 059-0163 110108 Capacrew Hex 16 X 26 28 046-0166 070161 Gasket Cylinder 29 <					1
10 077-0071 728004 Centrifugal Adapter Plate 11 044-0057 713002 Flywheel 16 708" 12 059-0166 110104 Capacrew Skt HD M6X20 13 060-0061 070201 Gasket Copper 14 047-0054 705000 Rod Connecting Aluminum w/buching 14 047-0054 705000 Rod Connecting Aluminum w/buching 16 062-0006 160004 Plug Ol Fill-124" NPT 17 077-0099 020148 Cover Crankcase Side 20 048-0054 720000 Platon LP 105mm 21 054-0179 719064 Platon LP 105mm 22 046-0167 070171 Capacrew Hex 16 X 80 24 049-0167 110111 Capacrew Hex 16 X 80 27 046-0166 070161 Gasket Sight Glass 28 042-0055 710000 Plug Ol IDrain-3/8" NPT 30 062-0004 160005 Plug Ol IDrain-3/8" NPT 31 019-0097 712000 Plug Herment			LE XULTERS THE STORE		1
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24 059-0167 110111 Capscrew Hex 12 X 70 26 046-0178 070171 Gasket Sight Glass 26 059-0163 110108 Capscrew Hex 16 X 80 27 046-0166 070161 Gasket Cylinder Head 28 042-0055 710000 Head Cylinder 29 055-0051 723003 Spring Unloader 30 062-0004 160005 Plug Oll Drain-3/8" NPT 31 058-0084 120058 Nut Adjustment Lock 32 050-0030 7111000 Cylinder 34 019-0023 712114 Filter Inlet Assembly 34 019-0023 712100 Filter Inlet Assembly 36 032-0031 731004 Filter Element 38 058-0086 120060 Nut Hex-M16 40 082-0014 706000 Intercooler 41 136-0057 704000 Elbow Valve and Unloader 42 082-0017 700600 Intercooler 44 031-0057					1
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71 064-0022 160003 Elbow Street 90 Degrees 1/4"					3
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					2
73 077-0070 701029 Cap Rear					1
74 096-0009 728000 Weight Unloader					2
75 107-0015 100100 Pin - Hinge	75	107-0015	100100	Pin - Hinge	2
76 114-0012 728002 Holder Unloader 77 046-0183 070245 Gasket Set					1



Reciprocating Compressors

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All component parts on this compressor installed by the manufacturer are warranted to be free of defects, workmanship and material for a period of one year. Transportation charges are the responsibility of the purchaser. This warranty extends to the original purchaser of the compressor only. The purchaser must use Industrial Gold synthetic reciprocating compressor oil in the compressor for the duration of the compressor warranty.

There are NO express warranties except other than those contained in this limited warranty statement

Covered in the one year period of the warranty are defective parts due to defects in the original part only.

The compressor warranty is void in the case of abuse, lack of proper service, in correct application, in correct installation, and neglect

Standard compressor warranty covers defective parts and labor for the one year period.

Industrial Electric stationary compressors may be repaired on site as long as the compressor is not located further than 50 miles from the service center. The purchaser is responsible for any additional travel expense past 50 miles from the service center.

Gas/Diesel engine driven, Single stage stationary, and Contractor series compressors must be repaired at the closest service center to the compressor. The purchaser is responsible for any travel expense if they do not wish to bring the compressor to the service center.

ALL "SPECIALTY COMPRESSOR" WARRANTY SERVICE MUST BE PERFORMED AT THE CLOS-EST SERVICE CENTER TO THE COMPRESSOR

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Specialty compressor-any compressor package with options other than those that apply to the standard model number in the catalog

BEFORE WARRANTY SERVICE IS PERFORMED CONTACT MANUFACTURER TECH SUPPORT FOR FASTEST SOLUTION

Warranty labor for the first year is only covered for work performed Monday-Friday 8am-5pm excluding all major US holidays

Optional 6 year Industrial reciprocating pump only warranty

To be applicable for this option purchaser must purchase the Full Year reciprocating compressor maintenance kit at the same time as the compressor. A subsequent kit must be purchased every 12 months from the date of the original purchase for a total of 6 kits during the warranty of the period of the pump. The purchaser must use only Industrial Gold synthetic reciprocating compressor oil in the compressor for the duration of the compressor warranty.

The warranty covers the Industrial reciprocating pump for a period of 6 years parts replacement only for any part with a defect from the manufacturer, excluding the compressor valves which carry the same 1 year standard warranty. The warranty does not cover standard wear and tear on parts, abuse, neglect, improper service, mis-application, and improper installation. The purchaser is responsible for any freight/shipping expense incurred.

BEFORE WARRANTY SERVICE IS PERFORMED CONTACT MANUFACTURER TECH SUPPORT FOR FASTEST SOLUTION

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Reciprocating Compressor Installation Sheet

Date of Installation	Compressor Model#
Installation Company	Compressor Serial #
Installation Technician	Compressor Voltage
Site Electrical Phase	
Site Voltage	
Compressor Electrical breaker size	
Incoming Voltage at motor start up	
Incoming Voltage at max operating pressure	
Incoming power connected to Magnetic Starter	
Compressor Rotation Correct	
Motor amps at Max operating Pressure	
Compressor Max Operating Pressure	
Compressor Oil Level ½ to ¾ full in site glass	
Compressor tank drain functional	
Unit inspected for Air leaks	
Unit location 🗆 Indoors 🛛 🗆 Outdoors	
(Put N/A if pressure not applicable to installed unit)	
Unit tank fill time 0-125psi	
Unit tank fill time 0-150psi	
Unit tank fill time 0-175psi	
Belt tension checked	
Vibration Pads properly installed Ves No	

NEC (Nati	onal Electr	ic Code) Reccomendatio	ons	
All data is	based on	what NEC code reccome	ends for the given motors a	at given voltages
Single Ph	ase Motors			
HP	Voltage		Reccomended Wire size	Reccomened Fusible Switch
2	115	50	10	30
2	230	25	14	20
3	115	70	8	50
3	230	35	12	25
5	230	60	10	40
7.5	230	80	8	60
10	230	90	6	60
* Wire siz	ed is based	d on 30ft or less run fror	n main panel	
*NEC reco	omends co	opper wire type THW,TH	IW-2, THHW, THHN, THWN,	XHHW, THWN-2 or ZHHW-2
Solid cop	oer wire is	not reccomened		

Before servicing the compressor or installing any part confirm the power is off to the compressor to prevent electrical shock. If there are any questions or concerns contact factory at 1-800-531-9656 or 972-352-6304

ingle Pha	ise Motors	;		
IP	Voltage	Reccomened Breaker	Reccomended Wire size	
2	208	15	14	
2	230	15	14	
2	480	15	14	
3	208	20	14	
3	230	20	14	
3	480	15	14	
5	208	35	12	
5	230	30	14	
5	480	15	14	
7.5	208	50	10	
7.5	230	45	10	
7.5	480	20	14	
10	208	60	8	
10	230	60	10	
10	480	25	14	
15	208	90	6	
15	230	80	6	
15	480	40	10	
20	208	100	4	
20	230	90	4	
20	480	60	10	
25	208	110	3	
25	230	100	4	
25	480	70	8	
30	208	125	2	
30	230	110	3	
30	480	80	8	
40	208	175	1 ought	
40	230	150	1	
40	480	90	6	
50	230		2 ought	
50	480		4	
60	230	225	3 ought	
60	480	110	3	
75	230	250	250	
75	480	125	1	
100	230	350	350	
100	480	200	1 ought	

Notes

Notes



Quality Air Compressor at a Great Price.

2626 Skyway Drive Grand Prairie, TX, 75052 417-206-6353 800-531-9656 Fax - 417-206-6336