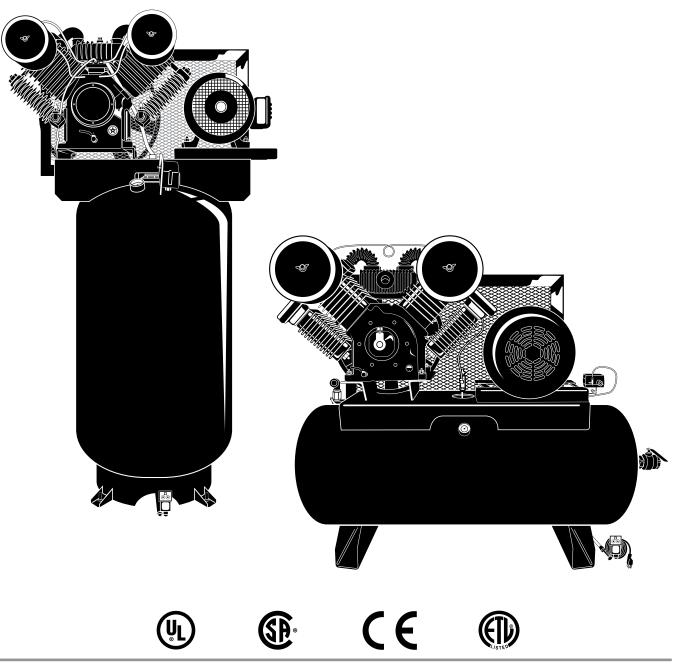


ELECTRIC OPERATED, PISTON COMPRESSORS

EMAX designs and manufactures products for safe operation. However, operators and maintenance persons are responsibile for maintaining safety. All safety precautions are included to provide a guideline for minimizing the possibility of accidents and property damage while equipment is in operation. **Keep these instructions for reference.**



Contents

	'age	e No
Model Specification Charts	2-	-3
Description		3
Safety Information		4
Tag Definitions		4
Basic Guidelines		4
Breathable Air		4
Pressurized Components		4
Personal Protective Equipment		4
Inspection		4
Forklift Safety		5
Lifting Safety		5
Installation		5
Area		5
Piping Safety		5
Piping / Tank Installation		6
Electronic Auto Drain (if equipped)		6
Electrical Safety		7
Wiring Installation		7

Pag	e No.
Operation	8
Safety Rules	8
Start Up	9
Continuous Run Feature	9
Maintenance	9
Safety Steps	9
Belt Adjustment	10
Changing Oil	10
Safety Valve	10
Tank	10
Maintenance Schedule	11
Troubleshooting	11
Warranty	12

EMAX Electric Operated, <u>Two-Stage</u>, 5-10 Hp Piston Air Compressors

Model	EP05H080I1	EP07H080V1	EP10H120Y1	EP07H080V3	EP10H120Y3
Tank Type	Horizontal	Horizontal	Horizontal	Horizontal	Horizontal
Dimensions L•W•H (inches)	76 x 30 x 56	76 x 30 x 56	78 x 32 x 50	76 x 30 x 56	78 x 32 x 50
Model	EP05V080I1	EP07V080V1	EP10V120Y1	EP07V080V3	EP10V120Y3
Tank Type	Vertical	Vertical	Vertical	Vertical	Vertical
Dimensions (inches)	34 x 24 x 72	34 x 24 x 72	50 x 32 x 78	34 x 24 x 72	50 x 32 x 78
Tank Size	80 Gallon	80 Gallon	120 Gallon	80 Gallon	120 Gallon
Description	5HP Single Phase	7.5HP Single Phase	10HP Single Phase	7.5HP Three Phase	10HP Three Phase
SCFM @ 175 psi	17.0	26.0	35.0	26.0	35.0
Max PSI	175	175	175	175	175
Motor HP	5HP	7.5HP	10HP	7.5HP	10HP
Motor RPM	1750	1750	1750	1750	1750
Voltage	208V/230V	208V/230V	208V/230V	208/230/460/575	208/230/460/575
Pump Model	APP2I0524T	APP4V1043T	APP3Y1544T	APP4V1043T	APP3Y1544T
Pump RPM	650	640	600	640	600
Noise DB(A)	73	73	76	73	76
Outlet Connection	NPT 3/4"	NPT 3/4"	NPT 1"	NPT 3/4"	NPT 1"
Weight (±5 lbs.)	715	958	1095	958	1095
Shipping Weight	800	1043	1242	1043	1242

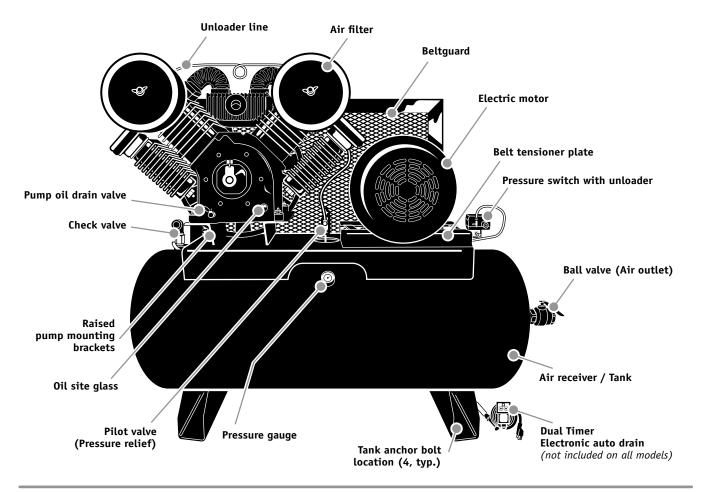
EMAX Electric Operated, Two-Stage, 15-25 Hp Piston Air Compressors

Model	EP15V120Y3	EP15H120Y3	EP20H120V3	EP25H120V3
Description	15 Hp Three Phase	15 Hp Three Phase	20 Hp Three Phase	25 Hp Three Phase
SCFM @ 175 psi	52.0	52.0	68.0	89.0
Max PSI	175	175	175	175
Motor HP	15 Hp	15 Hp	20 Hp	25 Hp
Motor RPM	1750	1750	1750	1750
Voltage	208/230/460/575	208/230/460/575	208/230/460/575	208/230/460/575
Tank Size	120 Gallon Vertical	120 Gallon Horizontal	120 Gallon Horizontal	120 Gallon Horizontal
Pump Model	APP3Y2062T	APP3Y2062T	APP4V2598T	APP4V2598T
Pump RPM	640	640	640	740
Noise DB(A)	76	76	78	79
Outlet Connection	NPT 1"	NPT 1"	NPT 1"	NPT 2"
Dimensions L•W•H (inches)	33 x 24 x 73	79 x 32 x 62	72 x 30 x 51	72 x 30 x 51
Weight (lbs.)	1410	1410	1500	1703
Shipping Weight	1512	1512	1609	1810

Description

Unit configuration and appearance varies by model.

Callouts are for general identification.



Safety

This manual contains very important information to know and understand. This is provided for SAFETY and to PREVENT EQUIPMENT PROBLEMS. To help understand this information, observe the following:

DANGER

Danger indicates an imminently hazardous situation which, if not

avoided, will result in death or serious injury.

A WARNING

Warning indicates a potentially hazardous situation which, if not

avoided, could result in death or serious injury.

▲ CAUTION

Caution indicates a potentially hazardous situation which, if not

avoided, may result in minor or moderate injury.

NOTICE

Notice indicates important information, that if not followed, may

cause damage to equipment.



Read all manuals included with this product carefully. Be thoroughly familiar with the controls and the proper use of the equipment.

Basic Guidelines

CALIFORNIA PROPOSITION 65

This product or its power cord may **▲** WARNING contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. Wash hands after handling.

- 1. Allow only trained, authorized persons who have read and understood these operating instructions to use this compressor. Failure to follow the instructions, procedures and safety precautions in this manual can result in accidents and injuries.
- 2. NEVER start or operate the compressor under unsafe conditions. Tag the compressor, disconnect and lock out all power to it to prevent accidental start-up until the condition is corrected.
- 3. Install, use and operate the compressor only in full compliance with all pertinent OSHA regulations and all applicable Federal, State & Local Codes, standards and regulations.
- 4. NEVER modify the compressor and/or controls in any way.
- 5. Keep a first aid kit in a convenient place. Seek medical assistance promptly in case of injury. Avoid infection by caring for any small cuts and burns promptly.

Breathable Air

1. NEVER use air from this compressor for breathable air except in full compliance with OSHA Standards 29 CFR 1910 and any other Federal, State or Local codes or regulations.





Death or serious injury can result from inhaling compressed air without using proper safety equipment. See OSHA standards on safety equipment.

2. DO NOT use air line anti-icer systems in air lines supplying respirators or other equipment used to produce breathable air. DO NOT discharge air from these systems in unventilated or other confined areas.

Pressurized Components

This equipment is supplied with a ASME designed pressure vessel protected by an ASME rated relief valve. Pull the ring before each use to make sure the valve is functional. Refer to figure 10. DO NOT attempt to open valve while the machine is under pressure.

Personal Protective Equipment

Be sure all operators and others around the compressor and its controls comply with all applicable OSHA, Federal, State and Local regulations, codes and standards relating to personal protective equipment. This includes respiratory protective equipment, protection for the extremities, protective clothing, protective shields and barriers, electrical protective equipment, and personal hearing protective equipment.

Inspection



Inspect compressor prior to any use. Check for external damage that might have occurred during transit. Be careful of moving parts then test pulley by turning it freely by hand. Report any dam-

age to delivery carrier immediately.

▲ CAUTION

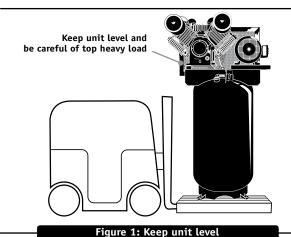
Make sure pallet-mounted compressors are firmly secured to

the pallet before moving. NEVER attempt to move a compressor that is not secure as serious injury or property damage could occur.

A forklift may be necessary for unloading the EMAX compressor. Use all forklift safety measures and require a certified forklift operator. Refer to figure 1 for safe unloading procedure.

Forklift Safety

- 1. Make sure lift operator stays aware while moving compressor.
- 2. Be sure load is secure and well balanced before moving the compressor.
- 3. Make sure forks are fully engaged and level before lifting or moving compressor.
- 4. Keep load as low as possible and observe safe operating practices.



Lifting Safety

- Carefully inspect all lifting equipment and make sure it is in good condition. Rated capacity should exceed compressor weight. Make sure lifting hook has a functional safety latch or equivalent and is properly attached to lifting feature.
- 2. Make sure lifting points are in good condition and tighten any loose nuts or bolts before lifting.
- 3. Use provided lifting feature or appropriate sling. A sling must be used when moving compressor with a helicopter or other air-borne equipment. Be sure to follow OSHA standards 29 CFR 1910 Subpart N.
- 4. Use guide ropes or equivalent to prevent twisting or swinging of the compressor while it is in the air and NEVER attempt to lift in high winds. Keep compressor as low to the ground as possible.
- 5. Keep persons away and make sure no one is under the compressor while it is lifted.
- 6. Only use lifting features provided for entire compressor package. NEVER use bolts or other hooks on invididual components to move the compressor.
- Make sure to put compressor on a level surface that can support the weight of the compressor and loading equipment.

▲ WARNING

Do not operate unit if damaged during shipping, handling or use.

Damage may result in bursting and cause injury or property damage.

Installation

Area

 Install compressor in a clean, dry and well-lit area. Be sure installation area can maintain a temperature range between 35° - 110° F.

A CAUTION

If ambient temperature drops below 32°F, be sure to protect safety/relief valves and drain valves from freezing.

NEVER operate compressor with temperatures below 15°F or above 125°F.

- Allow sufficient space around compressor for maintenance access and adequate airflow. Mount unit with pulley towards wall and leave a minimum of 15 inches of clearance.
- 3. <u>Use shims to level compressor</u> if installation area is not flat. This will avoid excessive vibration and premature pump wear.



DO NOT install compressor in boiler room, paint spray room, or area where sandblasting occurs. Make sure inlet air is away from exhaust fumes or other toxic, noxious or corrosive fumes or substances.

- 4. If acid is used in operating environment or air is dust laden, pipe intake to outside, fresh air.

 Increase pipe size by one size for every 20 feet of run. Be sure to install protective hood around intake filter.
- In operating environments where excessive water, oil, dirt, acid or alkaline fumes are present, a TEFC (totally enclosed, fan cooled) motor is recommended. Check nameplate for motor type.
- 6. Insulate cold water or other low temperature pipes that pass overhead to avoid condensation dripping on compressor which could cause rust and/or motor shorting.

Piping

Safety Steps

- Install appropriate flow-limiting valves as necessary according to pipe size(s) used and run lengths. This will reduce pressure in case of hose failure, per OSHA Standard 29 CFR 1926.302(b)(7).
- Flow-limiting valves are listed by pipe size and rated CFM. Select appropriate valves accordingly, in accordance with the manufacturer's recommendations.

Piping / Tank Installation

- Place tank feet on 1/4" thick rubber pads.
 Thicker padding will increase vibration and the possibility of cracking the tank or other unit damage. Do not place unit on dirt floor or uneven surface.
- 2. Fasten anchor bolts snugly but do not overtighten so normal vibration will not damage unit.

▲ DANGER

Compressor unit is top heavy and must be bolted to solid, flat

surface to avoid falling and premature pump wear. Splash lubrication will not operate properly if unit is not level.

- 3. Use a flexible connector between compressor tank and piping system to minimize noise, vibration, unit damage, and pump wear.
- Install appropriate ASME code safety valves and make sure piping system is equipped with adequate condensate drains. See figure 2. Refer to figure 3 for recommended closed loop installation.

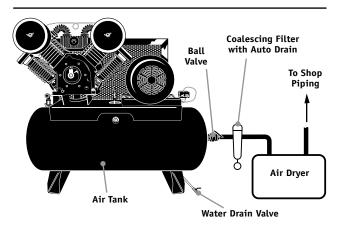


Figure 2: Basic Piping Diagram



Never install a shut-off valve such as a glove or gate valve, between the pump discharge and the air tank unless a safety valve is installed in the line between valve and pump.

5. Make sure any tube, pipe or hose connected to the unit can withstand operating temperatures and retain pressure.

▲ WARNING

Never use plastic (PVC) pipe for compressed air. Serious injury or

death could result.

Never use reducers in discharge piping. Keep all piping and fittings the same size in the piping system.

Minimum Pipe Size For Compressed Air Lines

(Pipe size shown in inches)

	Length Of Piping System			
SCFM	25 ft.	50 ft.	100 ft.	250 ft.
20	3/4	3/4	3/4	1
40	3/4	1	1	1
60	3/4	1	1	1
100	1	1	1	1-1/4
125	1-1/4	1-1/4	1-1/2	1-1/2

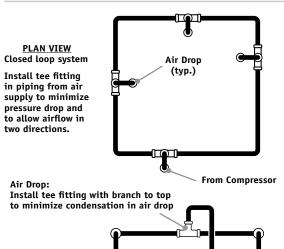


Figure 3: Closed Loop Installation

From

Compressor

- 7. For permanent installations of compressed air systems, determine total length of system and select correct pipe size. Make sure underground lines are buried below frost line and avoid areas where condensation could build up and freeze.
- 8. Test entire piping system *before* underground lines are buried. Be sure to find and repair all leaks before using compressor.

▲ WARNING

ELEVATION

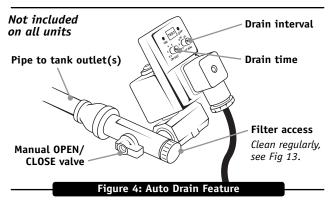
Never exceed recommended pressure or speed while operating compressor.

Water trap with drain

To Air Tool

Electronic Auto Drain (if equipped)

One auto drain can be used for multiple compressor units. Install necessary piping with appropriate fittings.



- 1. Plug auto drain into 120V outlet.
- 2. Set timers to desired settings. See figure 4. If drain is used for multiple units, increase timer settings as needed.
- 3. Use test button to check proper operation. Refer to maintenance section for proper care.

Electrical Safety



Be sure only trained and authorized personnel install and maintain this compressor in accordance with all applicable federal, state and local codes,

standards and regulations. Follow all NEC (National Electric Code) standards especially those concerning equipment grounding conductors.

- 1. Follow all NEC and local codes for electrical wiring. Allow only authorized EMAX service person or certified electrician to install electrical components.
- Put unit on dedicated circuit and make sure no other electrical equipment is wired into it. Failure to wire unit on independent circuit can cause circuit overload and/or imbalance in motor phasing. Install proper No Fuse Breaker (NFB) according to kW output of compressor.
- 3. Ensure incoming service has adequate ampere rating.
- 4. Ensure supply line has the same electrical characteristics (voltage, cycles and phase) as the electric motor.
- Refer to amp load information on motor tag and use correctly sized wiring. Be sure to consider distance between power supply and machine.
- 6. Install surge protection device between power supply and compressor motor.
- 7. Make sure to install properly sized breakers and fuses.
- 8. The unit must be properly grounded. DO NOT connect ground wire to air or cooling lines.



Improperly grounded electrical components are shock hazards. Make sure all the components are properly grounded to prevent death or serious injury.

Make sure proper overload protection for the motor is installed.

Wiring Installation

Install power leads into terminals opposite motor wires.



When wiring unit with magnetic starter, do not install power directly to pressure switch to avoid possible fire and property damage.

Ensure power supply and internal wiring is adequate according to voltage and frequency stated on motor nameplate and starter. Voltage should not vary more than 12% to ensure proper operation of compressor.

Single Phase Motors - No Magnetic Starter

- 1. Connect first power lead to 1L1.
- 2. Connect second power lead to 3L2.
- 3. Connect ground wire to existing motor ground wire.

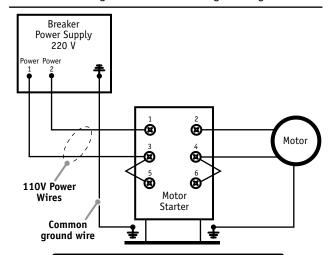
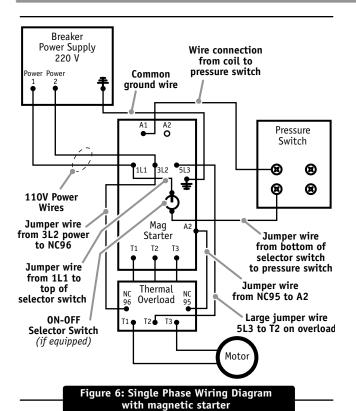


Figure 5: Single Phase Wiring Diagram without magnetic starter

Single Phase Motors - With Magnetic Starter

- 1. Connect first power lead to 1L1. Leave existing jumper wire installed. See Figure 6.
- 2. Connect second power lead to 3L2. Leave existing jumper wire installed.
- 3. Connect ground wire to ground lug.
- 4. Ensure all wiring and terminals are properly tightened.



Three Phase Motors (See figure 7)

- 1. Connect first power lead to 1L1.
- 2. Connect second power lead to 3L2.
- 3. Connect third power lead to 5L3.
- 4. Connect ground wire to existing motor ground
- 5. Check for proper motor rotation. When facing motor shaft, pulley should turn counterclockwise. If rotation is reversed, *turn off power* then switch two power leads.

Ensure wiring is installed according to voltage required for proper motor operation (220V or 460V).

Operation

Safety Rules

1. Make sure all operators receive product training, read and understand all instructions.



Keep all flammable, combustible, poisonous and noxious materials away from operating area. Make sure there are no oily rags, trash, leaves, litter or other combustible materials in operating area. Keep

suitable, fully charged fire extinguishers nearby when servicing and operating the compressor.

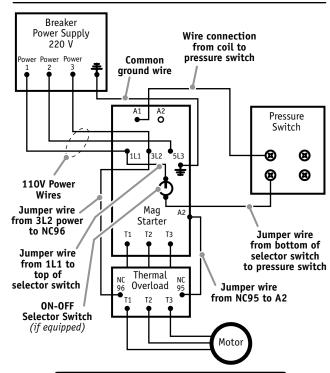


Figure 7: Three Phase Wiring Diagram with magnetic starter

- 2. **NEVER** allow modifications to compressor structure or controls.
- 3. Keep all ignition sources away from exposed electrical parts.
- 4. Keep all persons clear of compressor during start-up and operation.
- 5. NEVER operate the compressor with the fan, coupling or other guards removed.
- 6. DO NOT engage in horseplay with air hoses as death or serious injury may result.
- Make sure to provide adequate ventilation and use proper lubricant while operating the compressor. If lubricant or other combustible substances are spilled, clean up immediately.
- When checking or adding lubricant or when refilling air line anti-icer systems with antifreeze compound, shut off compressor and allow it to cool. Keep sparks, flames and other ignition sources away and DO NOT permit smoking in the vicinity.
- Stop compressor and disconnect power if a hazardous condition arises.
- 10. Wear snug fitting clothing and confine long hair when around compressor. Keep all body parts and clothing away from couplings, flywheel and other moving parts of the equipment.



Keep all persons away from the discharge opening of hoses or tools or other points of compressed air discharge. If the machine is installed in an enclosed area, be sure to vent the relief valve outside

of the structure or to an unoccupied area.

- 11. DO NOT use air tools that are rated below the maximum rating of the compressor. Select air tools, air hoses, pipes, valves, filters and other fittings accordingly. DO NOT exceed manufacturer's rated safe operating pressures for these items.
- 12. Make sure all hose connections are adequately secured to prevent tools or hose ends from being accidentally disconnected.

Start-Up

 This unit is shipped with pump break-in oil and should be ready to operate. Be sure to check for proper oil level before operating the compressor. Oil should be in center of site glass. See figure 8.

NOTICE

Use only Airbase Industries oil
(PN: APOLO3000G1). Use of any
other product will cause product damage and void
the warranty.

2. Check for proper belt tension. There should be 1/2 inch slack. Refer to maintenance section if adjustment is necessary.

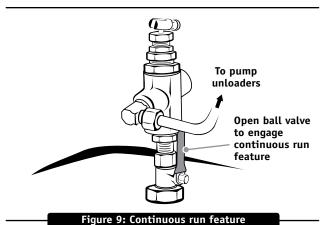


Always make sure main power is off before touching belts or other moving parts of compressor.

- 3. Lightly push power switch to make sure system is working.
- 4. If motor shaft is not turning counter clockwise, disconnect power to terminal block then exchange any two of the three power leads. Re-check rotation.



Figure 8: Check proper oil level



Continuous Run Feature (if equipped)

For heavy use applications such as sandblasting, the continuous run feature is available. This feature keeps main feed line open to eliminate numerous motor starts/stops and to help cool pump.

To engage continuous run feature, open ball valve found by following copper tubing across cylinder heads to tank. See figure 9.

Stop continuous run feature by closing valve so compressor will start and stop according to pressure switch.

Maintenance

Safety Steps



Disconnect, tag and lock out power source then <u>release all pressure</u> from the system before attempting to install, service, relocate or perform ANY maintenance.

- 1. Make sure repairs are done in a clean, dry, well lighted and ventilated area.
- When cleaning, use air pressure less than 30 psig (2.1bar). NEVER use flammable solvents for cleaning purposes. Also use effective chip guarding and personal protective equipment per OSHA standard 29 CFR 1910.242 (b).
- Relieve all internal pressure prior to opening any line, fitting, hose, valve, drain plug, connection or other component, such as filters and line oilers, and before refilling optional air line anti-icer systems with antifreeze compound.
- 4. Keep electrical wiring, including all terminals and pressure connectors in good condition. Replace any wiring that has cracked, cut, or otherwise damaged insulation. Replace terminals that are worn, discolored or corroded. Keep all terminals and pressure connectors clean and tight.

- 5. Keep all body parts and any hand-held tools or other conductive objects away from exposed live parts of the electrical system. When making repairs or adjustments, stand on a dry, insulated surface and DO NOT contact any other portion of the compressor.
- DO NOT leave compressor unattended with exposed electrical components. Be sure to tag and disconnect all power if temporary absence is necessary.



Compressor components can become hot during operation. Avoid bodily contact with hot liquids, hot surfaces and sharp edges and corners.

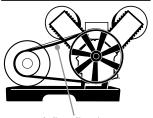
Belt Adjustment



Be sure to relieve all system pressure then lock out power and tag compressor to prevent unexpected movement of the unit.

Inspect belt tension after first 30 hours of operation then every 30 days.

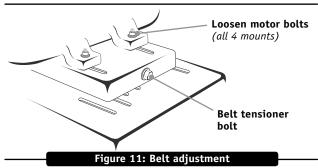
1. Proper belt tension is determined by pressing on belt midway between motor pulley and flywheel. There should be approximately 1/2 inch of deflection.



1/2" Deflection

Fig. 10: Proper belt tension

- Adjust belt tension as needed by loosening the four motor frame nuts then adjusting single bolt head on belt tensioner. See figure 11. Remember to tighten motor bolts after adjustment is made.
- Always replace all belts with the same brand, at the same time. Make sure belts are unimatched. Do not replace belts independently.





Pull ring on safety valve before each use.

Figure 12: Safety Valve

4. Do not splash lubricating oil on belts or pulleys when adjusting or replacing belts.

Changing Oil

All units are shipped with break-in oil. Change oil within first 50 hours or 30 days of operation, whichever comes first. **DO NOT use automotive type oil.**

NOTICE

Use only Airbase Industries Oil (PN: APOLO3000G1). <u>Use of any</u> l cause product damage and void

other product will cause product damage and void the warranty.

Change oil every 90 days or if oil becomes milky.

Safety Valve



NEVER attempt to regulate or tamper with safety valve. Valve is sealed and certified by ASME code and is designed to relieve system pressure when necessary.

Check proper operation of safety valve before each use. Refer to figure 12. If valve does not open manually, **replace immediately.** Discharge pressure is generally set at 175 PSI (12.1 bar). DO NOT attempt to open valve while machine is under pressure.

Tank

Drain daily.

If unit is equipped with electronic auto drain:

- 1. Check daily to ensure proper operation.
- 2. Clean filter daily. Refer to figure 13.

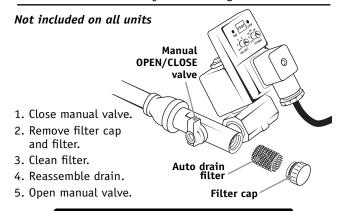


Figure 13: Clean filter in automatic drain

Maintenance Schedule			
Daily	☐ Check oil level☐ Check for unusual operation. Correct before damage occurs.	☐ Check safety valve☐ Drain tank and traps	
Weekly	☐ Clean air filter☐ Change oil (after first 50 hours)	☐ General unit cleaning ☐ Check for unusual operation. Correct before damage occurs.	
Monthly	 □ Check and tighten all bolts as required □ Check all connections for air leaks □ Check belts for proper tension, wear, and alignment 	☐ Inspect oil for contamination. Change if necessary. ☐ Check all unloading lines for leaks. Air leaks in unloader lines will cause unloaders and pilot valve to chatter and could cause short cycling of motor.	
Every 3 months	☐ Change oil	☐ Inspect valve assemblies	

Troubleshooting Chart

Problem	Possible Causes	Resolutions		
Low air pressure	1. Clogged inlet filter	1. Disassemble valve, clean thorougly		
	2. Air leak(s) in system	Use soapy water to locate leaks, replace or tighten threaded parts		
	Application exceeds rated air output of compressor	3. Check CFM requirements, change tool or use compressor with higher air output		
	 Cylinder head valves not sealing 	4. Remove valves from cylinder head, repair or replace as necessary		
	5. Insufficient power	5. Check power supply, rewire as necessary		
Overheating	1. Duty cycle exceeded	1. Keep duty cycle at 60/40 to maintain pump life		
	2. Improper rotation	2. When facing flywheel, ensure counter-clockwise rotation		
	Head valve(s) not seating properly	3. Clean or replace		
	Blown cylinder head gasket(s)) 4. Replace gasket(s)		
	Restriction in head, intercooler or check valve	5. Clear blockage		
	6. Low oil	Add oil. Ensure oil level is at middle of site glass. See figure 8.		
		NOTICE Use only Airbase Industries Oil (PN: APOLO3000G1). Use of any other product will cause product damage and void the warranty.		
	Dirt in intercooler fins or cylinder fins	7. Use low pressure air to blow dirt away from compressor		
	8. Poor ventilation / ambient temperature too high	8. Increase ventilation around operating area. Ensure compressor has adequate clear space from walls and other possible obstructions. Ambient temperature should not exceed 110° F.		

Warranty Statement

Emax, INC. (also known as EATON-MAX, Inc. and each of its subsidiaries) makes the following Warranties:

1. THAT EACH ROTARY SCREW AIR COMPRESSOR PUMP TO BE FREE FROM DEFECTS IN MATERIAL, WORKMANSHIP, AND PARTS FOR 10 YEARS ON THE ROTARY SCREW AIR COMPRESSOR PUMP FROM THE DATE OF PURCHASE. Emax (and each of its subsidiaries) is not responsible for downtime during warranty service. If downtime is necessary, it is the Purchaser's discretion and obligation (at Purchaser's expense) to have a redundant UNIT. This warranty applies to rotary screw rotors and bearings. The electric motor carries a five year warranty and a 2 year warranty on the rest of the compressor unit. The screw compressor MUST have Emax, Inc. Lubricant Synthetic exclusively, the same which must be purchased from Emax, Inc. (Mixing different brands of oil will void this warranty and cause the rotors to varnish). All air filters, oil filters, and oil separator filters must be purchased from Emax, Inc. and the screw compressor must have Emax, Inc. Synthetic Rotary Screw oil, purchased exclusively from Emax, or an Emax dealer, for this warranty to apply.

Annual participation in all oil programs are required by original purchaser of the unit outlined by the following:

- a) Purchase an oil sample kit for oil analysis by Emax or Emax Dealer.
- oil sample kit contains 20 oil sample containers. One (1) oil sample is to be sent for analysis by an Emax oil analysis laboratory every six (6) months so oil can be tested twice yearly.
- Oil samples are obtained by draining ___ ozs. of oil into container then mailing sample container to laboratory address provided in oil sample kit.
- d) The laboratory will perform an oil analysis then email a report to email address required when oil sample is provided.
- e) Provide annual proof of purchase for oil/filter service kit.
- f) Maintain proper oil level in unit at all times. If the unit runs out of oil, this warranty is void.

Failure of original purchaser to comply with any of the above conditions pertaining to oil analysis with void the complete unit warranty.

A full detailed maintenance schedule must be sent to Emax, Inc. once a year with the total service completed quarterly, outlining each air filter, oil filter and oil change with the total hours on the unit after each maintenance was performed.

Failure to fully comply with this warranty and fully comply with the manual herein will void this warranty.

Exclusions to this warranty also include all normal wear and tear items, including, but not limited to the bearings, rotors, valves, belts, shaft seal and load/unload solenoids.

2. THAT EACH BARE COMPRESSOR PUMP UNIT TO BE FREE FROM DEFECTS IN MATERIAL, WORKMANSHIP, AND PARTS FOR 5 YEARS FOR THE UNIT FROM THE DATE OF PURCHASE. Emax (and each of its subsidiaries) is not responsible for downtime during warranty service. If downtime is necessary, it is the Purchaser's discretion and obligation (at Purchaser's expense) to have a redundant UNIT. Warranty repairs shall not include freight costs. Purchaser is responsible for returning unit to Emax, Inc. This pump must have Emax Inc, lubricant Synthetic exclusively, the same which must be purchased from Emax Inc. (Mixing different brands of oils will void the pump warranty). A service kit must be purchased from Emax or an Emax dealer for this warranty to apply. Service kits contain an air filter and synthetic oil that must be changed annually. Annual proof of purchase of all oil programs must be maintained by the original purchaser of the compressor pump. If the unit runs out of oil, this warranty is void. Failure to fully comply with this warranty and fully comply with the manual herein will void this warranty.

Exclusions include: service such as OIL CHANGES, FILTER REPLACEMENTS, GASKET TIGHTENING TO CORRECT OIL SEEPAGE or DRIVE BELT TIGHTENING and VALVE CLEAN-ING and are not covered under warranty.

Warranty shall be void under the following conditions: Failure to routinely change oil and to maintain a clean filter, or exceeding 70% duty cycle resulting in overheating and excessive wear and tear, or exposing electrical components to rain or water, or installing the unit in a hostile environment such as acid vapors or any caustic or abrasive matter that may be ingested into the pump, or installing the unit in an enclosed area where lack of cooling ventilation is present, such as in boiler or equipment rooms where the ambient air exceeds 100°F.

3. THAT EACH COMPRESSOR UNIT TO BE FREE FROM DEFECTS IN MATERIAL, WORKMANSHIP, AND PARTS FOR 5 YEARS FOR THE COMPRESSOR PUMP AND 2 YEARS ON THE REMAINDER OF THE UNIT FROM THE DATE OF PURCHASE. The UNIT also carries a 1-year labor warranty. Emax (and each of its subsidiaries) is not responsible for downtime during warranty service. If downtime is necessary, it is the Purchaser's discretion and obligation (at Purchaser's expense) to have a redundant compressor. Warranty repairs shall not include freight costs. Purchaser is responsible for returning unit to Emax, Inc. This pump MUST have Emax Inc. Lubricant Synthetic exclusively, the same which must be purchased from Emax, Inc. (Mixing different brands of oil will void this warranty). A service kit must be purchased from Emax or an Emax dealer for this warranty to apply. Service kits contain an air filter and synthetic oil that must be changed annually. Annual proof of purchase of all oil programs must be maintained by the original purchaser of the compressor unit. If the unit runs out of oil, this warranty is void. Failure to fully comply with this warranty and fully comply with the manual herein will void this warranty.

Exclusions include: service such as OIL CHANGES, FILTER REPLACEMENTS, GASKET TIGHTENING TO CORRECT OIL SEEPAGE or DRIVE BELT TIGHTENING and VALVE CLEAN-ING and are not covered under warranty.

Warranty shall be void under the following conditions: Failure to routinely change oil and to maintain a clean filter, or exceeding 70% duty cycle resulting in overheating and excessive wear and tear, or exposing electrical components to rain or water, or installing the unit in a hostile environment such as acid vapors or any caustic or abrasive matter that may be ingested into the pump, or installing the unit in an enclosed area where lack of cooling ventilation is present, such as in boiler or equipment rooms where the ambient air exceeds 100°F.

- 4. THAT EACH **DRYER UNIT** TO BE FREE FROM DEFECTS IN MATERIAL, WORKMANSHIP, AND PARTS FOR 5 YEARS on the HEAT EXCHANGER AND 2 YEARS ON THE DRYER UNIT FROM THE DATE OF PURCHASE. Emax (and each of its subsidiaries) is not responsible for downtime during warranty service. If downtime is necessary, it is the Purchaser's discretion and obligation (at Purchaser's expense) to have a redundant DRYER UNIT. Warranty repairs shall not include freight costs. Purchaser is responsible for returning unit to Emax, Inc. Each **DRYER UNIT** must have a coalescing filter attached to the intake of the dryer to remove any oil or dirt before air enters the dryer. Failure to install coalescing filter will void the warranty.
- 5. GENERAL PROVISIONS: Emax (and each of its subsidiaries) is not responsible for downtime during warranty service. If downtime is necessary, it is the Purchaser's discretion and obligation (at Purchaser's expense) to have a redundant compressor. Warranty repairs shall not include freight costs. If necessary, the Purchaser is responsible for returning unit and/or applicable part(s) to Emax, Inc.

Exclusions include: service such as OIL CHANGES, FILTER REPLACEMENTS, GASKET TIGHTENING TO CORRECT OIL SEEPAGE or DRIVE BELT TIGHTENING and VALVE CLEAN-ING and are not covered under warranty.

Further Exclusions include failure to fully and completely follow the guidelines set forth in the manual. Of specific note is where a product is used where granite and/or concrete work is performed or conditions are dusty and the product is required to be housed in a separate room from the adverse conditions where the product has access to fresh air intake.

Parts used for warranty purposes must be supplied by Emax, Inc. Warranty work will be performed by an approved Emax, Inc. Technician. If any maintenance (other than routine maintenance) is performed by a non-approved Emax, Inc. Technician, written pre-approval must be obtained from Emax, Inc. to prevent voiding this Warranty. Failure to fully comply with this warranty and fully comply with the manual herein will void this warranty.

All warranties are nontransferable.

The Oil Purchase Program is effective as of January 1, 2011.