Model number:	
Model :	EP10V080V1
Description	10HP Two Stage Air Compressor
Pump :	
Pump model number	APP4V1043T
Max PSI	175
SCFM	34 SCFM @ 175 PSI / 36 SCFM @ 100 PSI
Pump Style	Two Stage V-4
Factory Settings	145 PSI Shut off Max Pressure - Turn on Pressure 100 PSI
Pump RPM	800
Pump Material	Solid Cast Iron
Motor:	
Running HP	10 HP
Voltage	208/230 Volt AC
Phase	1 Phase
Running AMP	24 AMP @ 208/230 VOLT- 12 AMP @ 460 VOLT
Start Up AMP	48 AMP @ 208/230 – 24 @ 460 VOLT
Recommended Breaker	40 AMP @ 208/230- 20 AMP @ 460 VOLT
Motor RPM	1750
Tank	
Size	80 Gallon Vertical
Outlet Size	NPT 1"
Drain Type	Automatic
Additional Information:	
Dimensions (L x W x H)	50" x 32" x 78"
Weight (Lbs)	966
Shipping Weight (LBS)	1120
Certification	UL, CSA, ASME
Noise Rating	76 DBA
Warranty	5 year Bumper to Bumper- no Pro-rated

This unit can be used for heavy industrial applications such as body shops, machine shops, poly foam insulation rigs, sandblasting shops, car washes, wood working shops, dry cleaners & many other uses.

We guarantee our unit to be the best quality on the market. That is why we offer a 5-Year Parts Warranty. Our product is the best or we could not offer this warranty. We have been manufacturing units since 1977 and have approximately *90,000* units on the market and offer complete parts, sales, and service.

Features Included:

- Quiet Low RPM ***100%*** Cast-Iron Construction for extended life - up to ***50,000*** Hours
- QUIET - Low Pump RPM — NOT High RPM & Loud
- Air Stream Technology with our raised plate forms under the pump
- Built-In Cooler Line for Maximum Cooling
- Solid Cast Iron Crankcase with oil sight glass– NOT Aluminum
- Steel Crankshaft with Ball Bearing for Solid Pump Support
- Cast Iron Cylinders – NOT Aluminum with Sleeve
- ALL Steel Rebuild able Connecting Rods with Replaceable bearings – NOT aluminum
- Disk Valves – NOT Cheap Reed Valves - for easy maintenance & long durability
- Industrial-Duty, 1750 RPM (not 3450 RPM) Name Brand Motor – UL & CSA Approved
- 1-3/8" Motor Output Shaft
- Belt Tension Adjuster – Fast, easy way to tighten belts
- 2-B Style Drive Belts – Heavy Industrial Grade
- 100% 13-Gauge Steel Belt Guard
- Taper Lock Industrial Motor Pulley – Cast Iron
- ASME Certified Air Tank – Approved for ALL 50 states
- Dual Control - Continuous Run & Automatic Start/Stop
- Prewired Starter Switch with Adjustable Amp Range
- 1" Ball Valve Outlet Valve
- All ASME Safety Valves on Receiver Tank
- All Brass 1" Check Valve with Teflon Seat
- Built-in Unloader which allows load less starting
- High Quality Pressure Gauge
- Tank Drain Pipe with Ball Valve for easy & fast tank draining

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The Difference-

Eaton Pumps are built to last and are *SUPER* quiet in operation. This is because of our low pump speeds and compressor design. The Pump has all steel connecting rods with replaceable rod bearing inserts. This means our rods can be rebuilt and are not a throw-away. 99% of our competitions (name brand) are using aluminum throw-away connecting rods with no rebuild able capability. The all cast iron crankshaft with ball bearings on the front and rear of the crankshaft create a smoother operating compressor and less drag and less electric being used. Removable 100% cast iron cylinders. This is more stable under heavy workloads and does not warp from heat like aluminum cylinders with a pressed-in sleeve. Most of our competition are using aluminum cylinders with a pressed-in sleeve. They are only good for 40-50% duty cycle and claim 100% duty cycle. In a year or so, most are replaced because they would not hold up under heavy use. All cast iron cylinder heads – NOT aluminum. Aluminum heads from heat will warp and cause head gasket problems. Cast iron head is more dependable and will last with trouble free operation. Intake and Exhaust valves are disk valve design. Most of our competition are using reed valves which are throw away and not rebuildable. Disk valves can be serviced in minutes instead of

hours like reed valves. Our disk valves come out of the top of the head. Disk valves have been around for over 100 years. Our compression and oil rings are high quality and provide low oil carry over (1-5 pmm). Our pumps are precision ground pistons with tight tolerances for low oil carry over. We also use quality non-absorbent gaskets. This keeps oil seepage from coming off of the pump. This pump has an all cast iron flywheel with built-in fan– NOT aluminum. Aluminum does not give the proper throw when the pump is running. The extra weight of cast iron when running gives the pump more throw on the compression stroke and puts less load on the electric motor. Our crankcase is also all cast iron – NOT aluminum. All cast iron will give stable crankshaft alignment and will handle more work load under heavy load conditions. This pump has built-in intake head unloaders. These unloaders are built into the intake valve assembly on the compressor head. These unload or open the intake valves under constant run applications such as gas drive and electric units for constant run applications. This feature reduces internal pump heat from compression because the intake valve is held open under unloading cycle. It allows fresh air to come into the cylinder chamber but under compression stroke, the unloader holds the intake valve open allowing the air to blow back out the intake filter. This fresh air absorbs the heat out of the pump under heavy workloads. This pump includes a pre-cooling line that cools the air before it goes into the tank and also includes an all copper main feed line from the pump into the tank. This is copper for durability and not aluminum. We have one of the lowest RPM compressors on the market. This is critical. Many companies are lowering the quality of their product and running high RPM. High RPM causes high noise or db levels**,** lots of water in your air because the air is much hotter, lots of vibration and harmonic distortion, less belt wear, and most of all – longer pump life. Don't cheat yourself…go low RPM and a BIG pump. Go Big or go home – you will be glad you did. Compare pump speeds from different manufacturers and you will see we are the lowest RPM. We can still give you high CFM with low RPM because our bore and stroke are larger allowing us to run the pump slower causing less friction and heat buildup. Just remember…speed kills. Our competition is using small pumps that are noisy and high RPM. This is a recipe for pump failure.

Let's break it down:

RAISED MOUNTING PLATFORM

This platform is a nice feature for keeping your oil cool within the pump. This platform raises the pump approximately 2" off the mounting base plate. This allows 100% of the fan from the flywheel to circulate cool air not only on the sides and front of the crankcase, but also under the crankcase as a constant flow of air. This feature gives your pump cool oil - - cooler oil not only helps to lubricate the pump but pulls the heat off the pistons and connecting rods. This will add many years of life to the compressor pump.

BELT TENTIONER

This unit includes an auto belt tentioner. If you have ever tightened belts on your compressor, you will know without a belt tentioner that it is almost impossible to get the correct belt tension and keep your belts in alignment. With our unit, this is not a problem anymore. Just loosen the 4 bolts under the motor about 2 threads and take a ¾" wrench and turn the bolt on the end of the tentioner and your belts are tightened and perfectly aligned. This makes maintenance happen in a few minutes and it is done correctly.

BELT GUARD

We manufacture our belt guards tougher than any you will find today. Many are using plastic or a bird-cage style belt guard. This is a cheap way of building a belt shield and is not durable. Our belt guard is made out of 13-gauge material and is all OSHA approved.

AIR TANK

Our tanks are ASME code American Made air receivers. This tank meets codes in all 50 states including California.

CONTROLS & COMPONENTS

Top quality pressure switch with adjustable screw to adjust your pressure higher or lower. Our check valves are all brass with a Teflon seat. This makes low tank noise when the compressor is running

because Teflon is much quieter when opening and closing during the compression stage. All brass ASME code safety valve is used for your safety. Our valves are preset and sealed for correct settings. If your compressor would not turn off, our safety valves will open and keep from building too high pressure and potentially keeping the tank from rupturing. Top quality plumbing fittings are used to maintain proper sealing when connected to the tank. High quality all brass ball valve is used for turning air on and off from the air receiver. Tank water drain pipe plumbed out the front of the unit with a ¼" ball valve handle for easy tank draining without the hassle of draining the tank with a petcock under the tank. Load less starting is built onto this unit. This unloads the pump so the pump will not start under direct head pressure. Without this feature, this will cause motor damage under starting cycle.

CONTINUOUS RUN & AUTOMATIC START/STOP

Under heavy workloads such as sandblasting, your compressor can cycle on and off many times per hour. This cycling is causing the magnetic contacts more wear because they are arching as they start and stop. A single phase motor also is arching because it has start and run windings built inside. When the motor is starting, it is on the start windings. The capacitors shoot 580V of power to the motor windings to start. As the motor gets to full RPM, there is a centrifugal switch that switches it from start to run windings. Every time this is done, your contacts are arching from start to run procedure. That is why the continuous run is good because under workloads over 50% duty cycle, it eliminates this arching and wear and tear on your magnetic contactor. The other reason is because under applications such as poly foam insulation trucks, their generator cannot handle the starting and stopping loads, so the continuous run is a better way to go under this type of application. Then when you are back into normal workloads in your shop, you can turn off the continuous run and the unit will go to automatic start/stop feature. It will just start and stop like a normal compressor.

STARTER SWITCH

With heater overload

MOTOR PULLEY& BELTS

Our pulleys are 2-groove and not 1-groove. You will see many compressors only using 1 belt to drive the pump. This unit uses 2-groove, B-Style belts. This ensures long belt life and low vibration and makes a quieter unit because the belts do not have to be so tight to drive the pump. The tighter the belts, the more load on the compressor pump bearings and the motor bearings and decreases the life. Our pulleys are taper lock design. This is much better than a fixed bore with a set screw. A taper lock will lock the pulley in position to the motor shaft allowing it not to loosen or move on the shaft. Our belts are also top quality and will last many thousands of hours of running.

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