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> EMAX Air Compressor EHS07V080Y1 Instruction Manual

EMAX EHS07V080Y1

EMAX Air Compressor EHS07V080Y1 Instruction Manual

Model: EHS07V080Y1 | Brand: EMAX

1. INTRODUCTION

This instruction manual provides essential information for the safe and efficient operation, installation, maintenance, and troubleshooting of your EMAX 80 Gallon Silent 7.5HP 2-Stage Air Compressor, model EHS07V080Y1. Please read this manual thoroughly before operating the compressor to ensure proper use and to prevent injury or damage.

2. IMPORTANT SAFETY INFORMATION

WARNING: Failure to follow these instructions may result in serious injury, death, or property damage.

Always observe basic safety precautions when using electrical equipment to reduce the risk of fire, electric shock, and personal injury.

2.1 General Safety Rules

- Read All Instructions:** Familiarize yourself with the compressor's operation and controls.
- Electrical Safety:** Ensure the power source matches the compressor's requirements. Use a properly grounded outlet. Do not operate with wet hands or in wet conditions.
- Pressure Safety:** Never exceed the maximum operating pressure. Do not modify the pressure relief valve. Always drain condensation from the tank daily.
- Moving Parts:** Keep hands, feet, and clothing away from moving parts such as belts and pulleys. Ensure all guards are in place before operation.
- Noise Protection:** Air compressors can be loud. Wear appropriate hearing protection during operation.
- Ventilation:** Operate the compressor in a well-ventilated area to prevent overheating and accumulation of hazardous fumes.
- Maintenance:** Disconnect power before performing any maintenance or repairs.

3. PRODUCT FEATURES

The EMAX EHS07V080Y1 Air Compressor is engineered for high performance and durability, incorporating several advanced features:

- Ultra-Quiet Operation:** Features a patented Silent Air System that significantly reduces intake noise, providing a

quieter work environment.

- **Robust Performance:** Equipped with a 7.5 HP 2-stage compressor, delivering 25.6 CFM at 100 PSI, suitable for heavy-duty applications.
- **Durable Construction:** All-cast iron splash lubricated pump ensures consistent performance and an extended lifespan, designed for up to 50,000 hours of use with proper maintenance.
- **Effortless Maintenance:** Includes an automatic tank drain and an industrial-grade 1750 RPM electric motor to minimize downtime and simplify routine care.
- **Built to Last:** Features an 80 Gallon powder-coated ASME tank with 1/4 inch mounting pads and an OSHA-approved 13 Gauge steel belt guard, crafted for reliability.

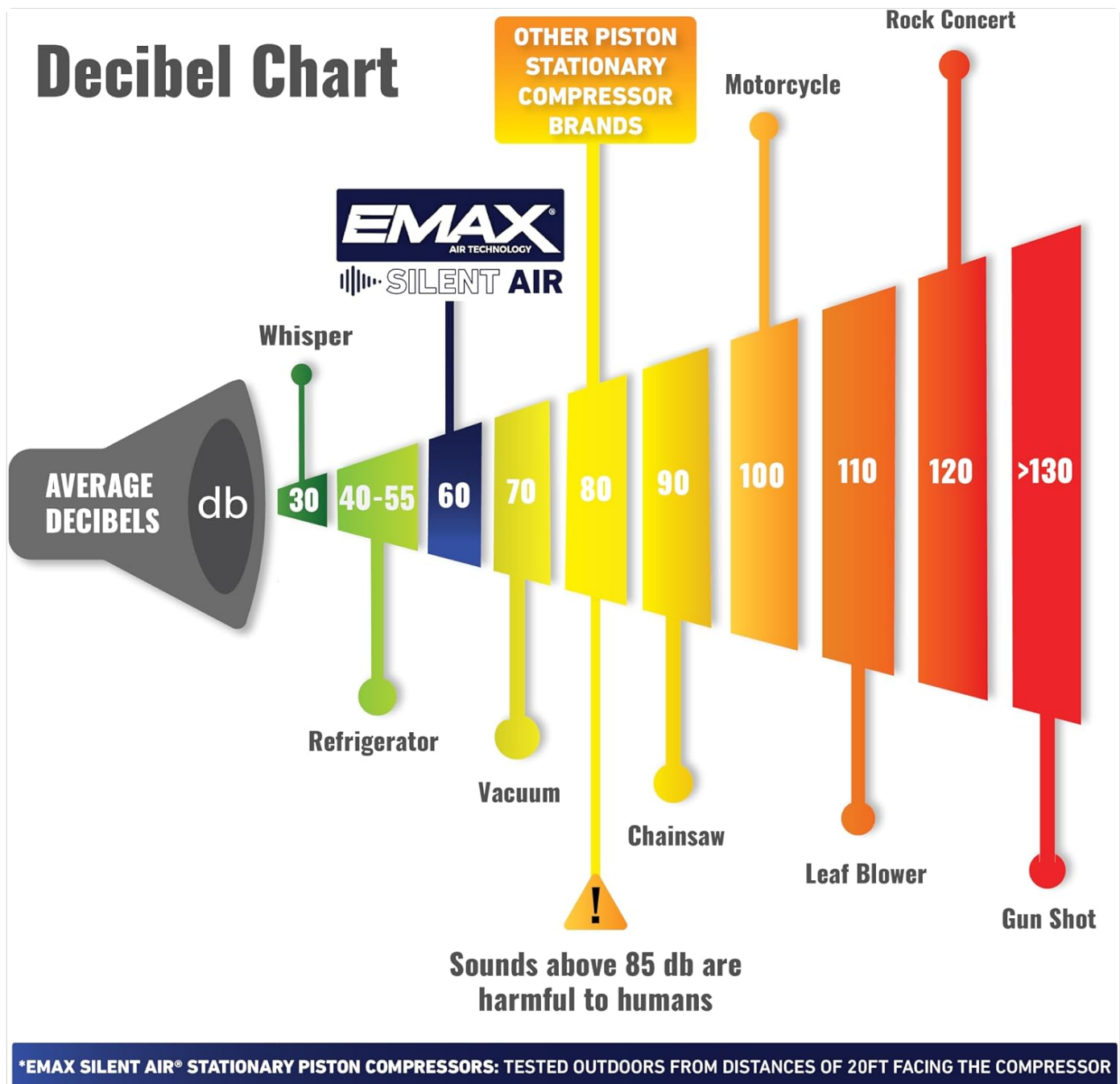


Figure 3.1: Decibel Chart illustrating the quiet operation of EMAX Silent Air compressors compared to other noise sources.

4. SETUP AND INSTALLATION

Proper setup is crucial for the safe and efficient operation of your air compressor.

4.1 Unpacking and Inspection

- Carefully remove the compressor from its packaging.
- Inspect for any shipping damage. Report any damage to the carrier and supplier immediately.
- Ensure all components listed in the packing list are present.





Figure 4.1: Front view of the EMAX 80 Gallon Air Compressor, showing the main tank and pump assembly.

4.2 Location and Placement

- Place the compressor on a firm, level surface capable of supporting its weight (approximately 850 pounds).
- Ensure adequate ventilation around the compressor to prevent overheating. Maintain at least 12 inches of clearance from walls or other obstructions.
- Avoid placing the compressor in areas with excessive dust, moisture, or flammable vapors.
- Utilize the 1/4 inch mounting pads for secure installation if permanent placement is desired.





Figure 4.2: Side view of the EMAX 80 Gallon Air Compressor, highlighting its vertical tank design.

4.3 Electrical Connection

- This compressor requires a specific electrical supply. Refer to the compressor's motor plate for exact voltage and amperage requirements.
- Connect the compressor to a dedicated, properly grounded circuit with appropriate overcurrent protection.
- Consult a qualified electrician if you are unsure about the electrical requirements or installation.

4.4 Initial Oil Check

- Before first use, verify the oil level in the pump. The compressor uses a splash lubricated pump.
- Add recommended compressor oil if the level is below the specified mark. Do not overfill.

5. OPERATING THE COMPRESSOR

Follow these steps for safe and effective operation of your EMAX air compressor.

5.1 Pre-Operation Checks

- Ensure all connections are secure and leak-free.
- Check the oil level in the pump.
- Verify the tank drain valve is closed before starting.
- Confirm the pressure switch is in the "OFF" position before connecting power.

5.2 Starting the Compressor

- Connect the power cord to the appropriate electrical outlet.
- Turn the pressure switch to the "ON" position. The compressor will start and build pressure until it reaches its cut-out pressure.
- Allow the compressor to run for a few minutes without connecting any air tools to ensure proper lubrication and break-in.

5.3 Adjusting Pressure

- The compressor is factory-set to a maximum pressure of 175 PSI.
- Use the regulator knob (if equipped) to adjust the output air pressure to suit your application.

5.4 Shutting Down

- Turn the pressure switch to the "OFF" position.
- Disconnect the power supply.
- Slowly open the tank drain valve to release all air pressure from the tank.
- Drain any accumulated condensation from the tank.

6. MAINTENANCE

Regular maintenance is essential to ensure the longevity and optimal performance of your EMAX air compressor, which is designed for up to 50,000 hours of use with proper care.

6.1 Daily Maintenance

- **Drain Condensation:** Open the automatic tank drain valve daily to remove moisture from the air tank. This prevents rust and extends tank life.
- **Check Oil Level:** Verify the oil level in the pump. Add oil if necessary.

6.2 Weekly Maintenance

- **Inspect Air Filter:** Check the air intake filter for dirt and debris. Clean or replace if clogged.
- **Inspect Belts:** Check the tension and condition of the drive belts. Adjust or replace as needed.



Figure 6.1: Detailed views of the compressor pump and motor, key components for maintenance.

6.3 Monthly/Quarterly Maintenance

- **Change Oil:** Replace the compressor oil according to the manufacturer's recommendations or after the first 50 hours of operation, then every 300-500 hours or quarterly, whichever comes first.
- **Check Fasteners:** Inspect all nuts, bolts, and fittings for tightness.

6.4 Long-Term Storage

- Drain the air tank completely.
- Change the oil and clean the air filter.
- Store in a clean, dry location.

7. TROUBLESHOOTING

This section provides solutions to common issues you may encounter with your EMAX air compressor. For problems not listed here, contact EMAX customer support.

Problem	Possible Cause	Solution
Compressor does not start or stops frequently.	No power, tripped circuit breaker, low voltage, faulty pressure switch, motor overload.	Check power connection, reset breaker, ensure proper voltage, inspect pressure switch, allow motor to cool.
Low air pressure or slow pressure build-up.	Air leaks, clogged air filter, worn piston rings, loose belt, low oil level.	Check for leaks (use soapy water), clean/replace filter, inspect/tighten belt, check/add oil. Professional service may be required for worn components.
Excessive noise or vibration.	Loose components, worn bearings, insufficient oil, improper mounting.	Tighten all fasteners, check oil level, ensure compressor is on a level surface. Contact support if noise persists.
Oil leakage.	Loose fittings, damaged seals/gaskets, overfilling oil.	Check and tighten all oil fittings, ensure oil level is correct. Replace damaged seals/gaskets.

8. SPECIFICATIONS

Key technical specifications for the EMAX EHS07V080Y1 Air Compressor:

Attribute	Value
Model Name	EHS07V080Y1
Brand	EMAX
Maximum Power	7.5 Horsepower
Tank Volume	80 Gallons
Air Flow Capacity (CFM)	25.6 Cubic Feet Per Minute (at 100 PSI)
Maximum PSI	175 PSI
Power Source	Electric (Corded Electric)

Attribute	Value
Special Feature	Silent Operation
Material	Cast Iron
Item Weight	850 pounds
Product Dimensions (L x W x H)	27 x 38 x 75 inches
Recommended Uses	Drilling, Bolting, Tire Inflation, Spraying, Cutting, Sanding, Nailing, Blow Cleaning, Grinding, Air Brushing

9. WARRANTY AND SUPPORT

EMAX stands behind the quality of its products. The EHS07V080Y1 Air Compressor is backed by a comprehensive warranty, recognized as one of the best in the industry.

9.1 Warranty Information

- For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official EMAX website.
- Keep your proof of purchase for warranty claims.

9.2 Customer Support

If you require technical assistance, have questions about operation or maintenance, or need to file a warranty claim, please contact EMAX customer support:

- **Online:** Visit the EMAX website for FAQs, support resources, and contact forms.
- **Phone:** Refer to your product documentation for the customer service phone number.

When contacting support, please have your model number (EHS07V080Y1) and serial number ready.

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Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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