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- › Sparmax /
- › Sparmax TC-620X Oil-Free Silent Compressor User Manual

Sparmax TC-620X

Sparmax TC-620X Oil-Free Silent Compressor User Manual

Model: TC-620X | Brand: Sparmax

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation, setup, and maintenance of your Sparmax TC-620X Oil-Free Silent Compressor. Please read this manual thoroughly before using the compressor and retain it for future reference.

The Sparmax TC-620X is a professional-grade, oil-free airbrush compressor designed for versatility and quiet performance. It features a 2.5-liter air tank and is capable of operating two airbrushes simultaneously.

2. SAFETY INSTRUCTIONS

Always observe the following safety precautions to prevent injury or damage to the compressor:

- **Electrical Safety:** Ensure the compressor is connected to a grounded outlet with the correct voltage (120 Volts). Do not operate with damaged cords or plugs.
- **Ventilation:** Operate the compressor in a well-ventilated area to prevent overheating.
- **Pressure Release:** Always release air pressure from the tank before performing maintenance or disconnecting accessories.
- **Moisture Trap:** Regularly drain the moisture trap to prevent water buildup, which can affect air quality and compressor performance.
- **Children and Pets:** Keep the compressor out of reach of children and pets.
- **Intended Use:** Use the compressor only for its intended purpose of airbrushing.
- **Modifications:** Do not attempt to modify the compressor. Unauthorized modifications can be dangerous and void the warranty.

3. PRODUCT COMPONENTS AND FEATURES

Familiarize yourself with the key components of your Sparmax TC-620X compressor:

SPARMAX

TC-620X

AIRBRUSH HOLDERS

2 Holders. Zero Fuss

AIR TANK (2.5L)

Ultra steady flow, with gauge and drain valve

PRESSURE SWITCH

Auto on/off convenience, 40/60 psi



Figure 1: Compressor overview highlighting airbrush holders, 2.5L air tank, and pressure switch (40/60 psi auto on/off).



Figure 2: Compressor details including the pressure regulator with gauge, moisture filter, and twin cylinder design.

- **Airbrush Holders:** Two integrated holders for convenience.
- **Air Tank (2.5L):** Provides ultra-steady airflow and includes a drain valve.
- **Pressure Switch:** Automatic on/off operation at 40/60 psi for consistent pressure.
- **Pressure Regulator & Gauge:** Allows for real-time display and adjustment of air pressure.
- **Moisture Filter:** Ensures cleaner air delivery by trapping moisture.
- **Twin Cylinder:** Stronger and steadier air output.

4. SETUP INSTRUCTIONS

Follow these steps to set up your Sparmax TC-620X compressor:

1. **Unpacking:** Carefully remove all components from the packaging. Verify that all included items are present.
2. **Placement:** Place the compressor on a stable, level surface in a well-ventilated area.
3. **Component Assembly:**
 - Attach the airbrush holders to the designated points on the compressor.

- Connect the braided air hoses to the compressor's air outlets and to your airbrushes.
- If necessary, use the provided airbrush adaptors to ensure compatibility with your airbrushes.

4. **Power Connection:** Plug the power cord into a grounded 120 Volt electrical outlet.

5. **Initial Check:** Before connecting an airbrush, turn on the compressor to ensure it builds pressure and the auto on/off switch functions correctly. The compressor should turn off around 60 psi and turn back on around 40 psi.



Figure 3: Included accessories: 2 Airbrush Holders, 2 Braided Hoses (3M), and 3 Airbrush Adaptors.

5. OPERATING INSTRUCTIONS

To operate your Sparmax TC-620X compressor:

1. **Power On:** Flip the power switch to the "ON" position. The compressor will begin to fill the air tank.
2. **Pressure Adjustment:** Use the pressure regulator knob to set the desired working pressure for your airbrush. The gauge will display the current pressure.
3. **Airbrush Connection:** Connect your airbrush(es) to the air hoses. The compressor supports up to two airbrushes simultaneously.

4. **Begin Airbrushing:** Once the desired pressure is set, you can begin your airbrushing work. The compressor's auto on/off feature will maintain consistent pressure.
5. **Power Off:** After use, turn off the compressor by flipping the power switch to the "OFF" position.
6. **Release Pressure:** Disconnect your airbrush and release any remaining air pressure from the system by briefly opening the airbrush trigger or using the tank drain valve.

6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your compressor:

- **Drain Moisture Trap:** After each use, or regularly depending on humidity, drain any accumulated moisture from the moisture trap and the air tank's drain valve. This prevents water from entering your airbrush and paint.
- **Clean Exterior:** Wipe down the exterior of the compressor with a damp cloth to remove dust and debris. Do not use harsh chemicals.
- **Check Hoses and Connections:** Periodically inspect air hoses for cracks or leaks and ensure all connections are secure.
- **Storage:** Store the compressor in a clean, dry environment when not in use.
- **Oil-Free Design:** The Sparmax TC-620X is an oil-free compressor, requiring no lubrication of internal components.

7. TROUBLESHOOTING

Refer to this section for common issues and their solutions:

Problem	Possible Cause	Solution
Compressor does not turn on.	No power, power switch off, or thermal overload.	Check power cord connection and outlet. Ensure power switch is ON. Allow compressor to cool if it has been running for an extended period.
No air output or low pressure.	Air hose disconnected, pressure regulator set too low, or air leak.	Check all hose connections. Adjust pressure regulator. Inspect hoses and fittings for leaks.
Excessive moisture in air.	Moisture trap full or not drained.	Drain the moisture trap and air tank thoroughly.
Compressor runs continuously.	Air leak in system or faulty pressure switch.	Check for air leaks in hoses, connections, and airbrush. If problem persists, contact support.

8. SPECIFICATIONS

Technical specifications for the Sparmax TC-620X Oil-Free Silent Compressor:

Model Number: TC-620X

Brand: Sparmax

Voltage: 120 Volts

Power Source: Corded Electric

Noise Level: 63 Decibels

Maximum Power: 0.17 Horsepower

Motor Horsepower: 0.1667 Horsepower

Air Tank Capacity: 2.5 Liters

Air Flow Capacity: 32 Liters Per Minute

Pressure Switch: Auto On/Off at 40/60 psi

Material Type: Metal

Recommended Use: Air Brushing

Additional Features: Lightweight, Silent Operation, Dual Airbrush Capability

Included Components: Air receiver tank, condensate trap, 2 airbrush holders, 2 braided hoses (3M), 3 airbrush adaptors.

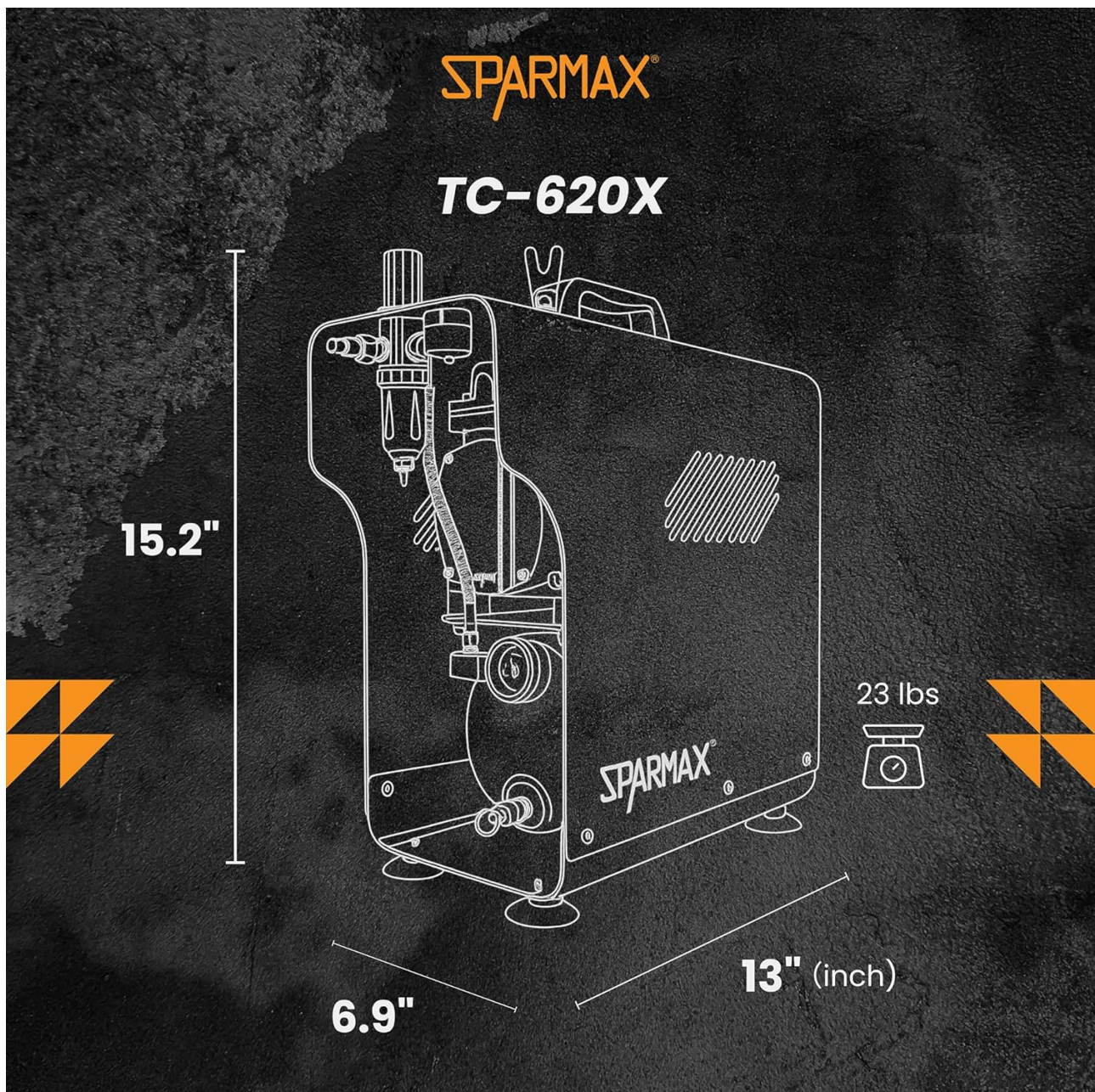


Figure 4: Compressor dimensions: Height 15.2", Length 13", Width 6.9". Weight: 23 lbs.

9. WARRANTY AND SUPPORT

For specific warranty information and customer support, please refer to the documentation provided with your

purchase or contact your retailer or the official Sparmax website. Keep your proof of purchase for warranty claims.