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F2C TC 20T

F2C TC-20T 1/5HP Air Compressor Airbrush Kit User Manual

Model: TC-20T

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation, setup, and maintenance of your F2C TC-20T 1/5HP Air Compressor Airbrush Kit. Please read these instructions thoroughly before initial use and retain for future reference.

2. SAFETY INFORMATION

- Always operate the compressor in a well-ventilated area.
- Ensure the power supply matches the specifications listed on the compressor.
- Do not operate the compressor near flammable liquids or gases.
- Wear appropriate personal protective equipment, such as eye protection, when operating.
- Never direct the air stream at people or animals.
- Disconnect the power supply before performing any maintenance or cleaning.
- Regularly drain moisture from the air tank to prevent corrosion and ensure optimal performance.
- Keep children and pets away from the operating compressor.

3. PACKAGE CONTENTS

Verify that all components are present and undamaged upon unpacking.

- F2C TC-20T Air Compressor with 3L Air Tank
- Air Hose (6 feet)
- Air Pressure Regulator with Gauge
- Water Trap Filter
- Teflon Tape
- Instruction Manual



Image 3.1: All components of the F2C TC-20T Air Compressor Airbrush Kit, including the compressor unit, air hose, regulator, water trap, and Teflon tape.

4. PRODUCT COMPONENTS AND OVERVIEW

The F2C TC-20T air compressor is designed for airbrushing applications, featuring an oil-less piston motor and a 3-liter air tank for consistent air pressure.



Image 4.1: Front view of the F2C TC-20T Air Compressor, showing the main unit, air tank, pressure gauge, and water trap filter.

Key Features:

- **Oil-less Piston Motor:** Ensures clean air output and low maintenance.
- **3-Liter Air Tank:** Provides consistent air pressure and reduces compressor cycling.
- **Automatic Shut-Off:** The compressor automatically turns off when the tank reaches maximum pressure and restarts when pressure drops.
- **Pressure Regulator with Water Trap:** Allows for precise air pressure adjustment and filters moisture from the air.
- **Low Noise Level:** Operates at approximately 47 decibels.



Image 4.2: Detailed view of the air pressure regulator and water trap filter, essential for precise airflow adjustment and moisture removal.

5. SETUP AND ASSEMBLY

Follow these steps to assemble your air compressor before first use.

- 1. Unpack Components:** Carefully remove all items from the packaging.
- 2. Attach Regulator and Water Trap:** The air pressure regulator and water trap filter need to be attached to the compressor. Apply several wraps of the provided Teflon tape (thread seal tape) to the threads of the regulator before screwing it into the compressor's air outlet. Tighten firmly but do not overtighten. Ensure the water trap is oriented downwards for proper drainage. *Note: Some users have reported difficulty aligning the regulator straight. Apply sufficient Teflon tape and tighten until snug, stopping before it's fully seated if necessary to achieve vertical alignment.*
- 3. Connect Air Hose:** Connect one end of the 6-foot air hose to the outlet of the water trap filter. Connect the other end to your airbrush. Ensure connections are secure to prevent air leaks.
- 4. Position Compressor:** Place the compressor on a stable, level surface in a well-ventilated area.

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Video 5.1: A general overview video demonstrating the assembly and basic setup of an air compressor similar to the F2C TC-20T. This video can help visualize the connection points for the hose and regulator.

6. OPERATING INSTRUCTIONS

- 1. Power On:** Plug the power cord into a suitable electrical outlet. Flip the power switch on the compressor to the 'ON' position. The compressor will begin to fill the air tank until it reaches its maximum pressure, then automatically shut off.
- 2. Adjust Air Pressure:** Use the knob on the air pressure regulator to set the desired working pressure. The pressure gauge will display the current output pressure. Turn clockwise to increase pressure, counter-clockwise to decrease.
- 3. Connect Airbrush:** Ensure your airbrush is securely connected to the air hose.
- 4. Begin Airbrushing:** Once the desired pressure is set, you can begin your airbrushing work. The compressor will automatically cycle on and off to maintain the set pressure in the tank.
- 5. Power Off:** When finished, turn off the power switch and unplug the compressor from the electrical outlet.
- 6. Depressurize System:** After turning off and unplugging, release any remaining air pressure from the tank by opening the airbrush trigger or using the tank drain valve until the gauge reads zero.

7. MAINTENANCE

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

- **Drain Water Trap:** Periodically check and drain any accumulated moisture from the water trap filter. This prevents moisture from reaching your airbrush and paint.
- **Drain Air Tank:** After each use, or at least weekly, drain the air tank. Locate the drain valve at the bottom of the air tank (often a small knob or screw). Place a container underneath and open the valve to release condensed water. Close the valve securely after draining.
- **Clean Air Filter:** Inspect the air intake filter regularly. Clean or replace it if it appears dirty or clogged to ensure proper airflow to the compressor.
- **General Cleaning:** Wipe down the exterior of the compressor with a damp cloth. Do not use harsh chemicals or abrasive cleaners.



Image 7.1: Bottom view of the F2C TC-20T Air Compressor, highlighting the drain valve for removing moisture from the air tank.

8. TROUBLESHOOTING

Refer to this section for common issues and their solutions.

Problem	Possible Cause	Solution
Compressor does not turn on	No power, faulty switch, thermal overload	Check power connection. Ensure switch is ON. Allow compressor to cool down if it was recently used.
Air leaks from connections	Loose connections, insufficient Teflon tape, damaged threads	Tighten all connections. Reapply Teflon tape to threaded fittings. Inspect threads for damage.
Inconsistent air pressure	Regulator malfunction, air leaks, low tank pressure	Check for air leaks. Ensure tank is adequately pressurized. Adjust regulator.
Moisture in airbrush output	Water trap full, tank not drained	Drain the water trap filter. Drain the air tank thoroughly.
Regulator/water trap not straight	Thread design, insufficient Teflon tape	Apply more Teflon tape to the threads. Tighten carefully until the desired alignment is achieved, even if not fully seated. Avoid overtightening.

9. TECHNICAL SPECIFICATIONS

Specification	Value
Model Name	TC 20T
Motor Horsepower	0.2 HP (1/5 HP)
Tank Volume	3 Liters
Air Flow Capacity	25 Liters Per Minute
Maximum Operating Pressure	6.5 Bars
Noise Level	47 Decibels
Voltage	12 Volts (Input voltage typically 110-120V AC for US models)
Hose Length	6 Feet
Product Dimensions (L x W x H)	12.4" x 5.5" x 11.3"
Item Weight	11 pounds (approx. 5 kg)
Special Feature	Automatic Shut-Off



Precise Air Adjustment:

True Diaphragm Pressure Regulator with Gauge and Water Trap Filter that provides precise adjustment of airflow and will ensure clean, dry air.

Image 9.1: Visual representation of the F2C TC-20T Air Compressor highlighting its dimensions and core features like the oil-less motor and automatic shut-off.

10. WARRANTY AND CUSTOMER SUPPORT

For warranty information or technical assistance, please refer to the documentation included with your purchase or contact the manufacturer directly. Keep your purchase receipt as proof of purchase.

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