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Master Airbrush Master Airbrush-KIT-3AIR-20

Master Airbrush Cool Runner II System User Manual

Model: Master Airbrush-KIT-3AIR-20

Introduction

This manual provides comprehensive instructions for the setup, operation, maintenance, and troubleshooting of your Master Airbrush Cool Runner II Dual Fan Air Compressor Professional Airbrushing System Kit. This versatile system is designed for various applications, including hobbies, crafts, auto graphics, temporary tattoos, cake decorating, fine art, and nail art.

Product Overview

Your Master Airbrush system includes a high-performance air compressor and three distinct airbrush models, along with essential accessories to get you started.

Kit Components



Image: Overview of the Master Airbrush kit components, including the TC-320 compressor, G22, S68, and E91 airbrushes, air hose, and quick start guide.

- **Master Airbrush Model TC-320 Cool Runner II Compressor:** A powerful 1/5 HP single-piston compressor featuring two cooling fans for extended continuous operation without overheating. It includes a pressure regulator with a gauge and a water trap filter.
- **Master Airbrush Model G22 Dual-Action Airbrush:** Equipped with a 1/3 oz. gravity feed fluid cup and a 0.3mm tip, ideal for fine detail work and general applications.
- **Master Airbrush Model S68 Precision Dual-Action Siphon Feed Airbrush:** Features a 0.35mm tip and a 3/4 oz. siphon bottle, suitable for broader coverage and various media.
- **Master Airbrush Model E91 Single-Action Siphon Feed Airbrush:** Designed with a 0.8mm tip and two 3/4 oz. siphon bottles, excellent for larger areas and beginners.
- **6-Foot Braided Air Hose:** Connects the compressor to the airbrush.
- **Compressor-Mounted Airbrush Holder:** Provides convenient storage for two airbrushes during use.
- **Quick Start Guide & Resource Access Card:** Provides initial setup instructions and access to additional learning resources.

Airbrush Details



Image: Detailed exploded views of the Model E91, Model G22, and Model S68 airbrushes, showing their individual components and fluid tip sizes.

- **Model G22:** Dual-action, gravity feed, 0.3mm needle. Ideal for fine lines and detailed work.
- **Model S68:** Dual-action, siphon feed, 0.35mm needle. Suitable for medium to broad spray patterns.
- **Model E91:** Single-action, external mix siphon feed, 0.8mm needle. Best for large area coverage and thicker media.

Compressor Features

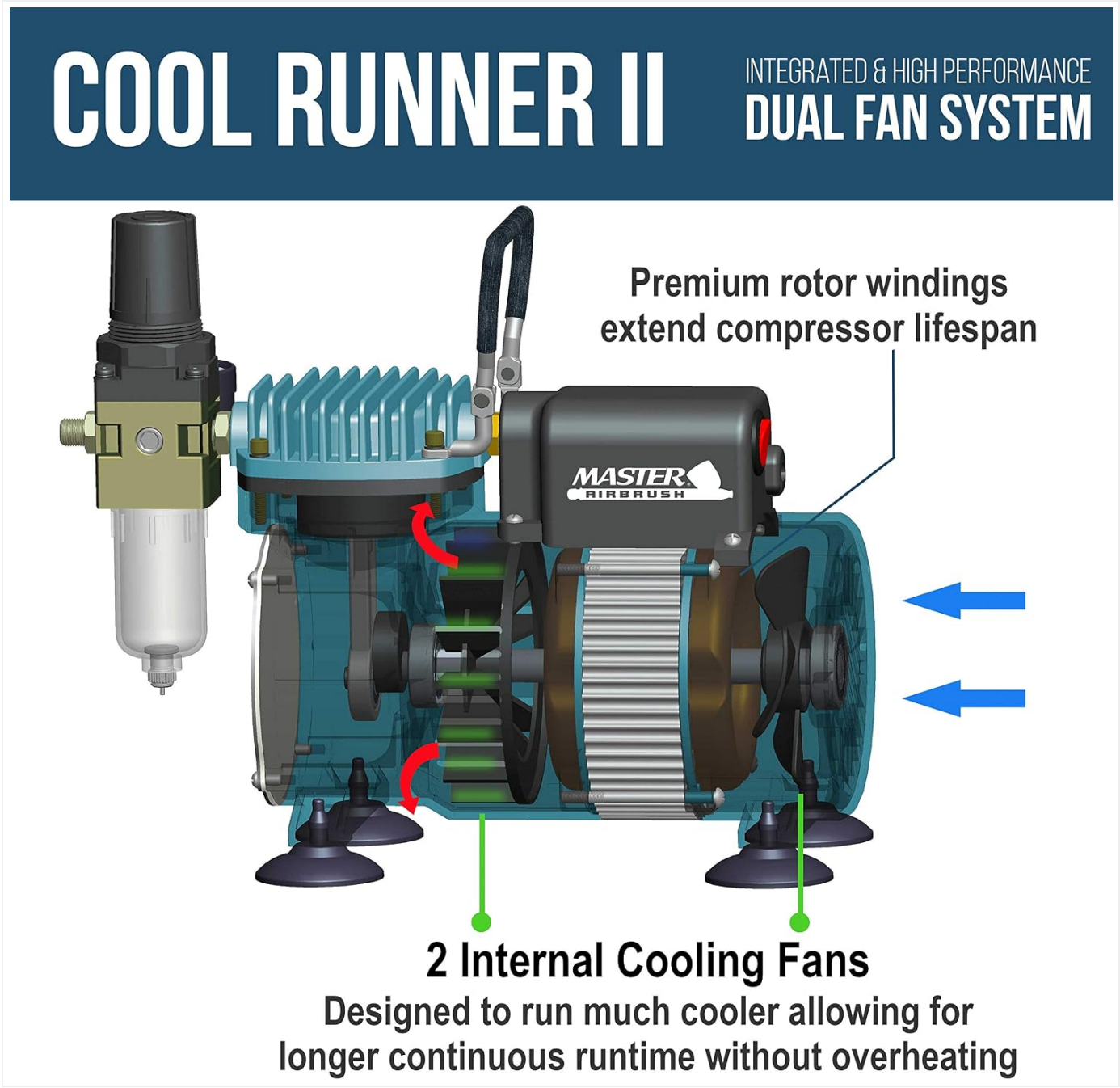


Image: Internal view of the Cool Runner II compressor highlighting the dual fan system and premium rotor windings for extended lifespan and cooler operation.

- **Dual Fan System:** Two internal cooling fans ensure the compressor runs cooler for longer continuous operation.
- **Premium Rotor Windings:** Designed to extend the compressor's lifespan.
- **Automatic On/Off Shutoff:** Activates when airbrush trigger is pressed and deactivates when released, reducing motor wear and heat.
- **Pressure Regulator with Gauge:** Allows precise control over air pressure.
- **Water Trap Filter:** Removes moisture from the air, preventing paint clogs and ensuring consistent spray.

Setup Instructions

1. **Unpack Components:** Carefully remove all items from the packaging. Inspect for any damage.
2. **Position the Compressor:** Place the TC-320 compressor on a stable, level surface in a well-ventilated area. Ensure adequate space around the unit for airflow.
3. **Attach Air Hose:** Connect one end of the 6-foot braided air hose to the air outlet on the compressor's pressure regulator. Hand-tighten securely.

4. **Connect Airbrush:** Attach the other end of the air hose to the air inlet of your chosen airbrush. Ensure a snug fit to prevent air leaks.
5. **Install Airbrush Holder:** If desired, attach the compressor-mounted airbrush holder to the designated slot on the compressor.
6. **Power Connection:** Plug the compressor's power cord into a standard 120-volt electrical outlet.
7. **Initial Test:** Turn on the compressor. The compressor should build pressure and then automatically shut off. Press the airbrush trigger to release air; the compressor should restart. Release the trigger, and it should shut off again. This confirms proper function.
8. **Adjust Pressure:** Use the pressure regulator knob to set the desired air pressure for your application. Refer to your paint manufacturer's recommendations for optimal PSI settings.

Operating Instructions

Preparing Your Paint

Most airbrush paints require thinning to achieve the correct consistency for spraying. The ideal consistency is often described as that of milk or ink. Always follow the paint manufacturer's specific thinning instructions.

- Use appropriate thinners for your paint type (e.g., water for acrylics, specific reducers for enamels).
- Mix paint thoroughly in a separate container before adding to the airbrush fluid cup or bottle.
- Strain paint if necessary to remove any particles that could clog the airbrush.

Using Dual-Action Airbrushes (G22, S68)

Dual-action airbrushes allow independent control of air and fluid flow.

1. **Air First:** Press the trigger down to release air. This creates an airflow that atomizes the paint.
2. **Pull Back for Paint:** While holding the trigger down, pull it back to release paint. The further back you pull, the more paint is released.
3. **Practice:** Practice on scrap material to get a feel for the airbrush and achieve desired spray patterns.
4. **Air Last:** When finishing a stroke, release the paint by pushing the trigger forward, then release the air by lifting the trigger completely. This helps clear the nozzle and prevents paint buildup.

Using Single-Action Airbrush (E91)

Single-action airbrushes control air and fluid flow simultaneously with a single trigger movement.

1. **Press Trigger:** Press the trigger down to release both air and paint. The amount of paint is typically fixed or adjusted via a separate knob.
2. **Spray Pattern:** The E91 is an external mix airbrush, meaning air and paint mix outside the nozzle, producing a broader spray pattern suitable for base coats and larger areas.

General Airbrushing Tips

- Maintain a consistent distance from your surface.
- Move your airbrush in smooth, even strokes.
- Apply multiple thin coats rather than one thick coat to avoid runs and drips.
- Always work in a well-ventilated area and use appropriate personal protective equipment (PPE), such as a respirator.

Product Showcase Video

[redacted]

Video: An official product showcase demonstrating the Master Airbrush system in various applications, including fine art, cake decorating, and automotive graphics. This video provides a visual guide to the system's capabilities and ease of use.

Maintenance

Proper cleaning and maintenance are crucial for the longevity and optimal performance of your airbrush system.

Airbrush Cleaning

Clean your airbrush immediately after each use, especially when changing colors or finishing a session.

1. **Empty Fluid Cup/Bottle:** Discard any remaining paint.
2. **Flush with Cleaner:** Fill the fluid cup/bottle with appropriate airbrush cleaner or water (for water-based paints). Spray through the airbrush until the cleaner runs clear.
3. **Back-Flush (Dual-Action):** For gravity-feed airbrushes, cover the nozzle with your finger or a cap and press the trigger down to allow air to bubble back into the cup. This helps dislodge paint from the nozzle.
4. **Disassemble and Clean:** For a thorough cleaning, disassemble the airbrush components (needle, nozzle, fluid tip, air cap). Use small cleaning brushes and cleaner to remove all paint residue. Be gentle with the needle and nozzle as they are delicate.
5. **Reassemble:** Carefully reassemble the airbrush, ensuring all parts are correctly seated.

Compressor Maintenance

- **Drain Water Trap:** Regularly check and drain any accumulated moisture from the water trap filter.
- **Keep Vents Clear:** Ensure the compressor's cooling vents are free from dust and debris to maintain optimal airflow and prevent overheating.
- **Storage:** Store the compressor in a clean, dry environment when not in use.

Troubleshooting

Problem	Possible Cause	Solution
No air flow from airbrush	Hose disconnected, compressor off, clogged nozzle.	Check hose connections, ensure compressor is on, clean nozzle.
Paint sputtering or inconsistent spray	Paint too thick, clogged nozzle, low air pressure, moisture in air line.	Thin paint, clean nozzle, increase air pressure, drain water trap.
Airbrush leaks paint	Loose nozzle, bent needle, damaged O-rings.	Tighten nozzle, straighten/replace needle, replace O-rings.
Compressor overheats	Blocked vents, prolonged continuous use.	Clear vents, allow compressor to cool down.
Compressor runs constantly	Air leak in system, pressure switch malfunction.	Check all connections for leaks, contact support if issue persists.

Specifications

Feature	Detail
Brand	Master Airbrush
Model Number	Master Airbrush-KIT-3AIR-20
Compressor Type	1/5 HP Single-Piston with Dual Cooling Fans
Voltage	120 Volts

Feature	Detail
Air Flow Capacity	25 Liters/Minute
Hose Length	6 Feet
Airbrush G22 Tip Size	0.3 mm
Airbrush S68 Tip Size	0.35 mm
Airbrush E91 Tip Size	0.8 mm
Product Dimensions (L x W x H)	12.5" x 7" x 15"
Item Weight	11 Pounds

Warranty & Support

Master Airbrush products are backed by a manufacturer's warranty. For specific warranty details and to register your product, please refer to the information provided on the Airbrush Resource Center Access Card included in your kit or visit the official Master Airbrush website.

For technical support, troubleshooting assistance, or to inquire about replacement parts, please contact Master Airbrush customer service. Contact information can be found on the Airbrush Resource Center Access Card or the manufacturer's website.

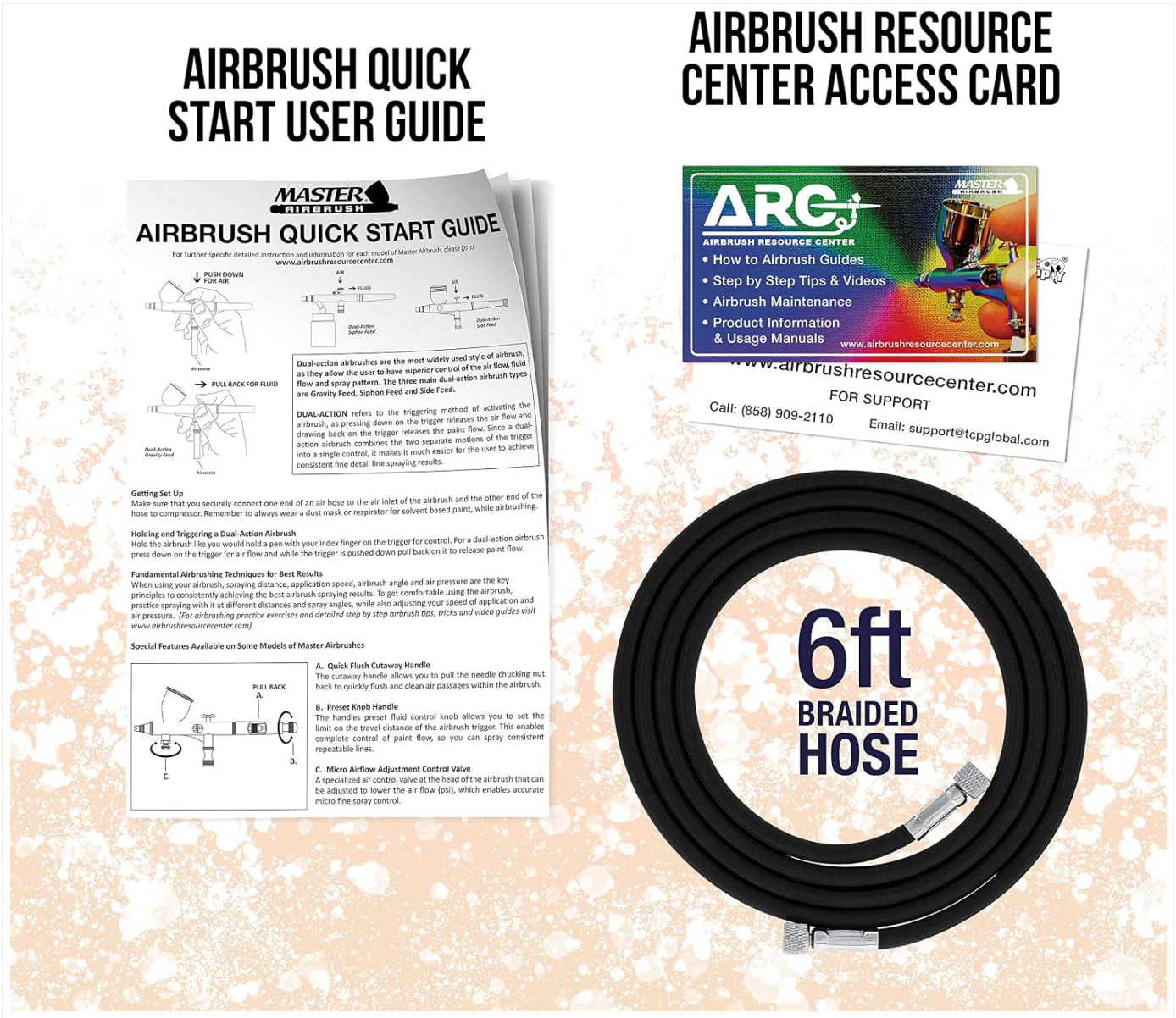


Image: The Airbrush Quick Start User Guide and Airbrush Resource Center Access Card, which provide additional information and support contacts.

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