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> Coleman-Mach 48004-669 Signature Series MACH 15 HP2 Medium-Profile Heat Pump 15,000 BTU - Textured Black Instruction Manual

Coleman 48004-669

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Model: 48004-669

INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your Coleman-Mach 48004-669 Signature Series MACH 15 HP2 Medium-Profile Heat Pump. This high-performance unit is designed to provide both efficient cooling and economical electric heating for your recreational vehicle. Please read this manual thoroughly before installation and operation to ensure proper use and to maximize the lifespan of your unit.

IMPORTANT SAFETY INFORMATION

Always observe the following safety precautions to reduce the risk of fire, electric shock, or injury to persons:

- Read all instructions before using this appliance.
- Disconnect power before servicing or cleaning.
- Installation must be performed by a qualified service technician in accordance with all local and national electrical codes.
- Do not operate the unit with damaged wiring or components.
- Ensure proper ventilation around the unit.
- Keep children and pets away from the unit during operation.

PACKAGE CONTENTS

Upon unpacking, verify that all items listed below are present and undamaged:

- Coleman-Mach 48004-669 Signature Series MACH 15 HP2 Medium-Profile Heat Pump 15,000 BTU - Textured Black
- Installation Manual (this document)

- Mounting Hardware (if applicable, not explicitly listed but implied for installation)



Image: The Coleman-Mach 48004-669 Signature Series MACH 15 HP2 Medium-Profile Heat Pump, shown in textured black. This image displays the complete exterior of the heat pump unit.

SETUP AND INSTALLATION

Installation of the Coleman-Mach HP2 heat pump requires specialized knowledge and tools. It is strongly recommended that installation be performed by a certified RV technician or a qualified HVAC professional.

Pre-Installation Checklist:

- Ensure the RV roof is structurally sound and capable of supporting the unit's weight (approximately 82 pounds).
- Verify the roof opening dimensions are compatible with the unit.
- Confirm electrical supply meets the unit's requirements (Voltage: 3E+2 Volts, Wattage: 1708 watts, Amps (Cool): 14.1; Amps (Heat): 16.0).
- Gather necessary tools: screwdriver set, drill, sealant, measuring tape, wiring tools.

Installation Steps (Summary - Professional Installation Recommended):

1. **Prepare the Roof Opening:** Clean and seal the existing or new roof opening according to RV manufacturer guidelines.
2. **Position the Unit:** Carefully lift and position the outdoor unit over the roof opening, ensuring proper alignment.
3. **Secure the Unit:** Fasten the unit to the RV roof using the provided mounting hardware, ensuring a watertight seal.
4. **Electrical Connections:** Connect the unit to the RV's electrical system. This step is critical and must be done by a qualified electrician to prevent electrical hazards.
5. **Install Interior Components:** Install the interior air distribution box and control panel (if separate) according to their respective instructions.
6. **Test Operation:** After installation, perform a functional test of both cooling and heating modes.

OPERATING INSTRUCTIONS

The Coleman-Mach HP2 offers both cooling and heating functionalities. Familiarize yourself with the control panel (sold separately or integrated with RV controls) to operate the unit effectively.

Modes of Operation:

- **Cooling Mode:**

Select "Cool" on your thermostat or control panel. Adjust the desired temperature. The unit will operate as an air conditioner, providing 15,000 BTU nominal cooling capacity. Ensure all windows and vents are closed for optimal cooling efficiency.

- **Heat Pump Mode:**

Select "Heat" on your thermostat or control panel. Adjust the desired temperature. The heat pump utilizes a reversing valve to transfer heat from the outside air into your RV, providing an economical electric heat source. This mode is highly efficient for taking the chill off without using propane.

- **Fan Only Mode:**

This mode circulates air without engaging the cooling or heating elements. Useful for improving air circulation within the RV.

Temperature Control:

Use the thermostat to set your desired temperature. The unit will cycle on and off to maintain the set temperature.

Fan Speed:

Most control panels allow adjustment of fan speed (e.g., Low, Medium, High, Auto). "Auto" mode adjusts fan speed based on temperature differential.

MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your Coleman-Mach HP2 unit.

Air Filter Cleaning:

- The unit features a high-density filter. Locate the filter access panel, typically on the interior air distribution box.
- Remove the filter and clean it with warm, soapy water. Rinse thoroughly and allow it to air dry completely before reinstallation.
- Clean the filter monthly during periods of frequent use, or more often in dusty environments.

Exterior Cleaning:

- Periodically inspect the exterior shroud for debris, leaves, or dirt accumulation.
- Gently clean the exterior with a soft cloth and mild detergent. Avoid using abrasive cleaners or high-pressure washers.
- Ensure the condenser coils (visible through the side vents) are free of obstructions.

Seasonal Checks:

- Before and after each travel season, inspect all electrical connections for tightness and signs of corrosion.
- Check the roof gasket and sealant around the unit for cracks or deterioration and repair as needed to prevent water leaks.

TROUBLESHOOTING

Before contacting customer support, review the following common issues and their solutions:

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Unit does not turn on.	No power supply; tripped circuit breaker; faulty thermostat.	Check RV's shore power connection or generator. Reset circuit breaker. Verify thermostat settings.
Insufficient cooling/heating.	Dirty air filter; blocked air vents; low refrigerant (professional service); incorrect thermostat setting.	Clean air filter. Ensure vents are open. Check thermostat setting. If problem persists, contact a qualified technician.
Unusual noise during operation.	Loose components; debris in fan; motor issue.	Inspect for loose screws or debris. If noise persists or is severe, discontinue use and contact service.
Water leaking from unit.	Clogged condensate drain; improper installation seal.	Clear condensate drain. Inspect roof seal for damage. Professional repair may be required.

SPECIFICATIONS

Key technical specifications for the Coleman-Mach 48004-669 Signature Series MACH 15 HP2 Medium-Profile Heat Pump:

- **Model:** 48004-669
- **Cooling Capacity:** 15,000 BTU
- **Heating Type:** Heat Pump (Electric)
- **Voltage:** 3E+2 Volts
- **Wattage:** 1708 watts
- **Amps (Cool):** 14.1 A
- **Amps (Heat):** 16.0 A
- **Amps (Desert):** 18.1 A
- **Item Weight:** 82 pounds
- **Package Dimensions:** 41 x 28.4 x 16 inches
- **Exterior Finish:** Textured Black
- **Special Feature:** High Density Filter
- **Refrigerant:** R 410A
- **Form Factor:** Mini-Split (referring to the overall system type, though this is a rooftop unit)

WARRANTY AND SUPPORT

For warranty information, please refer to the documentation provided with your purchase or visit the official Coleman-Mach website. Keep your proof of purchase for warranty claims.

For technical support, service, or to locate an authorized service center, please contact Coleman-Mach customer service. Contact details can typically be found on the manufacturer's website or on the product packaging.

Online Resources: [Visit the Coleman Store on Amazon](#)

