

Robinair 34888HD

Robinair 34888HD Heavy Duty R-134a Refrigerant Recovery, Recycling, and Recharging Machine Instruction Manual

1. INTRODUCTION

The Robinair 34888HD is a heavy-duty machine designed for efficient recovery, recycling, evacuation, leak-testing, and recharging of R-134a refrigerant. It achieves 98.5% efficiency in both small and large mobile air conditioning systems, including those found in oversize vehicles like buses. This fully automatic unit streamlines A/C service operations by handling refrigerant and oil management without constant monitoring.

2. KEY FEATURES

- **Extra Capacity & Automatic Features:** Recovers, recycles, evacuates, leak-tests, and recharges R-134a with 98.5% efficiency.
- **Large Vehicle Compatible:** Features a large capacity, removable tank, and a liquid pump specifically designed for larger A/C systems in vehicles such as buses.
- **Nitrogen Port:** Equipped with a nitrogen port for technicians to use nitrogen for drying and leak testing vehicle A/C systems.
- **Removable External Tank:** Allows for easy tank switching during multiple recoveries on large mobile A/C systems.
- **Fully Automatic Operation:** Capable of recovering, evacuating, leak testing, charging, and oil drain/inject without constant technician intervention.
- **Printer Compatible:** Supports an optional printer (not included) for saving, storing, and printing vehicle service data for customer records.
- **Programmable Vacuum Function:** Defaults to 15 minutes, programmable up to 99 minutes, with remaining time displayed.
- **Refrigerant Management System:** Displays refrigerant use and monitors filter life, providing prompts when 1/3 of filter life remains.



Figure 1: Detailed diagram highlighting the key features of the Robinair 34888HD machine, including the 4.3" full-color multilingual display, refrigerant management system, nitrogen port, spin-on filter-drier, fully-automatic function, programmable vacuum, automatic oil drain/air purge, and large capacity removable tank.

3. SAFETY GUIDELINES

Always prioritize safety when operating the Robinair 34888HD machine. Adhere to the following guidelines:

- **Personal Protective Equipment:** Always wear safety glasses and gloves during any refrigerant recovery or charging process to protect against chemical exposure and frostbite.
- **Prevent Overfilling:** Always use a scale to prevent overfilling of the recovery cylinder. Overfilling can lead to dangerously high pressures and severe equipment damage. Do NOT fill the recovery cylinder more than 80% of its capacity.
- **High Pressure Safety:** The machine is equipped with a high-pressure safety shut-off switch that will automatically shut down the unit if pressure rises above 550 PSI, preventing damage and ensuring user safety.
- **Proper Ventilation:** Operate the machine in a well-ventilated area to prevent the accumulation of refrigerant vapors.

4. OPERATION OVERVIEW

The Robinair 34888HD offers fully automatic operation, minimizing the need for constant technician intervention. The machine is capable of performing the following functions:

- **Refrigerant Recovery:** Extracts R-134a refrigerant from the A/C system.
- **Refrigerant Recycling:** Processes recovered refrigerant to remove contaminants, making it suitable for reuse.
- **System Evacuation:** Removes air and moisture from the A/C system to ensure proper operation.
- **Leak Testing:** Performs automated leak tests to identify system integrity issues.
- **Refrigerant Recharging:** Accurately charges the A/C system with the specified amount of R-134a.
- **Oil Drain/Inject:** Automatically drains used A/C lubricant and injects new lubricant back into the system.
- **Nitrogen Port:** Allows for the use of nitrogen to dry and leak test the A/C system.
- **Programmable Vacuum:** The vacuum function defaults to 15 minutes but can be programmed up to 99 minutes, with the display showing the time remaining.

- **Refrigerant Management:** The system displays refrigerant usage and monitors the remaining filter life, prompting when filter replacement is nearing.



Figure 2: A technician operating the Robinair 34888HD machine next to a large bus, demonstrating its heavy-duty application for oversized vehicles.

5. MAINTENANCE

- **Filter-Drier Replacement:** The refrigerant management system monitors filter life. Replace the spin-on 300 lb. capacity filter-drier when prompted by the machine to ensure optimal performance and prevent contamination.
- **Optional Printer:** If equipped with an optional printer, ensure it is maintained according to its manufacturer's instructions for reliable data recording.

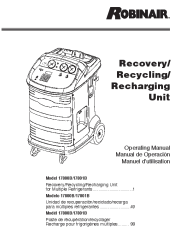
6. SPECIFICATIONS






Attribute	Value
Manufacturer	Robinair
Brand	Robinair
Model	34888HD
Item Weight	282 pounds
Product Dimensions	30 x 27 x 46 inches
Voltage	125 Volts (AC)
Temperature Range	32-120°F
Recovery Performance	95%+ at 70-75°F in less than 30 min
Filter-Drier Capacity	300 lb, spin-on
Hoses	18 ft
Compressor	3/8 hp
Vacuum Pump	5.0 cfm Dual Stage, 29.9 InHg
External Cylinder	50 lb DOT

7. WARRANTY AND SUPPORT

For customer support or inquiries regarding your Robinair 34888HD machine, please refer to the official Robinair customer support channels. Information regarding warranty coverage and service options can typically be found on the manufacturer's website or by contacting their support directly.

Related Documents - 34888HD

	<p>Robinair 17800B/17801B Refrigerant Recovery, Recycling, and Recharging Unit Operating Manual</p> <p>This operating manual provides comprehensive instructions for the Robinair 17800B/17801B Refrigerant Recovery, Recycling, and Recharging Unit. It covers setup, operation, maintenance, safety guidelines, and troubleshooting for automotive A/C systems.</p>
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 <p>Machine Information</p> <p>Model: _____</p> <p>Serial: _____</p> <p>Machine No: _____</p> <p>1. Machine Information</p> <p>2. Machine Inspection</p> <p>3. Machine Maintenance</p> <p>4. Machine Troubleshooting</p> <p>5. Machine Safety</p> <p>6. Machine Warranty</p> <p>7. Machine Service</p> <p>8. Machine Parts</p> <p>9. Machine Accessories</p> <p>10. Machine Notes</p>	<p>Robinair Machine Pre-Season Maintenance Checklist</p> <p>A comprehensive checklist for performing pre-season maintenance and checks on Robinair HVAC service equipment, covering machine inspection, filter life, vacuum pump oil, scale calibration, leak checks, software updates, and refrigerant identifier maintenance. Includes model numbers and part numbers.</p>
 <p>Instruction Manual</p> <p>Model 34998</p>	<p>Robinair 34998 R-134a A/C System Recover, Recycle, Recharge Machine Instruction Manual</p> <p>This manual provides detailed instructions for operating, maintaining, and troubleshooting the Robinair Model 34998 machine, designed for recovering, recycling, and recharging R-134a automotive air conditioning systems. It includes safety precautions, setup procedures, operating guidelines, maintenance schedules, and a troubleshooting guide.</p>
 <p>Instruction Manual</p> <p>Model AC1234-9</p>	<p>Robinair AC1234-9: R1234yf A/C Service Machine Instruction Manual</p> <p>This instruction manual provides detailed operational guidance for the Robinair AC1234-9, a professional machine designed for the recovery, recycling, and recharging of R1234yf refrigerant in automotive air conditioning systems, meeting SAE J2843 standards.</p>
 <p>Original Instructions</p> <p>Manual de Instrucciones</p> <p>Model 34888HD</p>	<p>Robinair 34888HD: Manual para Máquinas de Recuperación, Reciclaje y Recarga de A/C para Vehículos Pesados</p> <p>Manual de instrucciones completo para la máquina Robinair 34888HD, diseñada para la recuperación, reciclaje y recarga de sistemas de aire acondicionado R-134a para vehículos pesados. Incluye especificaciones técnicas, procedimientos de operación, mantenimiento y solución de problemas.</p>
 <p>ROBINAIR 16330 UV Leak Detection HVAC/R Master Kit</p>	<p>ROBINAIR 16330 UV Leak Detection HVAC/R Master Kit</p> <p>Comprehensive guide to the ROBINAIR 16330 UV Leak Detection HVAC/R Master Kit, featuring true UV LED technology for efficient leak detection in heating, ventilation, air conditioning, and refrigeration systems. Includes kit contents, specifications, and optional accessories.</p>