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› Robinair 34788NI Premier R-134A Refrigerant Recovery, Recycling, and Recharging Machine User Manual

Robinair 34788NI

Robinair 34788NI Premier R-134A Refrigerant Recovery, Recycling, and Recharging Machine

Model: **34788NI** | Brand: **Robinair**

PRODUCT OVERVIEW

The Robinair 34788NI is an advanced, fully automatic machine designed for the recovery, recycling, and recharging of R-134a refrigerant in standard (non-hybrid) automotive A/C systems. It offers high efficiency and a range of automated features to streamline A/C service operations.





Image: The Robinair 34788NI machine, a grey and black unit with a control panel and wheels, designed for automotive A/C service.

Key Features:

- **Fully Automatic Operation:** Recycles, evacuates, leak-tests, and recharges R-134a systems with 98.5% efficiency without constant monitoring.
- **Programmable Vacuum Function:** Adjustable vacuum time up to 99 minutes with remaining time display.
- **Vacuum Leak Test:** Monitors vacuum level post-evacuation to detect potential leaks.
- **Automatic Oil Drain/Inject:** Automatically drains recovered oil and injects precise amounts of new oil.
- **Flushing Function:** Allows flushing of A/C systems or components using liquid refrigerant.
- **Automatic Refrigerant Refill:** Maintains a user-selected refrigerant level in the internal vessel and signals when the supply tank needs changing.
- **Refrigerant Management System:** Tracks refrigerant usage and monitors filter life.
- **Notifications:** Visual and audible alarms for service completion or issues.
- **Printer Compatibility:** Ability to save and print service data (optional printer required).
- **Multilingual Display:** User interface supports multiple languages.

SETUP AND INSTALLATION

Before operating the Robinair 34788NI, ensure proper setup and connection to the vehicle's A/C system. This machine is designed for ease of use, but correct initial setup is crucial for optimal performance and safety.

Unpacking and Initial Inspection:

- Carefully remove the machine from its packaging.
- Inspect the unit for any visible damage that may have occurred during shipping. Report any damage to the carrier and supplier immediately.
- Verify that all components listed in the packing list are present. The machine typically includes the main unit and necessary hoses.

Placement and Power Connection:

- Place the machine on a level, stable surface in a well-ventilated area.
- Ensure the operating environment temperature is between 32-120°F (0-49°C).
- Connect the power cord to a grounded 125 VAC, 60 Hz electrical outlet.

Hose and Tank Connections:

- Connect the high-side (red) and low-side (blue) service hoses to their respective ports on the machine.
- Connect the refrigerant supply tank to the machine's internal cylinder connection. The machine is designed for a 30 lb DOT internal cylinder.
- Ensure all connections are secure to prevent refrigerant leaks.





Image: Rear view of the Robinair 34788NI machine, illustrating the storage and connection points for the red (high-side) and blue (low-side) service hoses, and the oil drain bottle.

OPERATING INSTRUCTIONS

The Robinair 34788NI is designed for fully automatic operation, simplifying the A/C service process. Follow these general steps for typical operations.



Image: A close-up view of the Robinair 34788NI's control panel, featuring high and low-pressure gauges, a digital display, and numerical input buttons for operation.

Starting the Machine:

- Power on the machine using the main power switch.
- The 4.3" full-color multilingual display will illuminate. Follow on-screen prompts for initial setup or language selection if necessary.

Connecting to Vehicle A/C System:

- Connect the high-side (red) and low-side (blue) service hoses to the vehicle's A/C service ports. Ensure a secure connection.
- Open the vehicle's A/C service port valves.



Image: A technician operating the Robinair 34788NI machine, which is connected to an automotive A/C system, demonstrating its use in a workshop environment.

Fully Automatic Service Cycle:

The machine can be programmed to perform a complete service cycle automatically:

1. **Recovery:** The machine will recover refrigerant from the vehicle's A/C system. The automatic oil drain display will remind you to empty the graduated container to show the amount of oil to replace.
2. **Vacuum:** The system will then evacuate the A/C system. The vacuum function defaults to 15 minutes but is programmable up to 99 minutes. The display shows remaining time.
3. **Vacuum Leak Test:** After evacuation, the machine monitors the vacuum level to detect potential leaks. An alarm will sound if a leak is detected.
4. **Recharge:** The machine will recharge the A/C system with the specified amount of R-134a refrigerant. You can select a charge mode from high, low, or both sides.
5. **Oil Inject:** Automatically injects the precise amount of new oil back into the vehicle's A/C system.

Visual and audible alarms will notify the user when the service is complete or if a problem has occurred during the cycle.

Refrigerant Management System:

- The refrigerant management system displays refrigerant use and monitors remaining filter life.
- Prompts will appear when 1/3 of the filter life remains, indicating it's time for replacement.

Data Saving and Printing:

- The machine allows you to save and store "before and after" service information by vehicle.
- This data can be printed to provide a detailed service record to the customer (optional printer required).

MAINTENANCE

Regular maintenance ensures the longevity and accurate performance of your Robinair 34788NI machine.

Filter-Drier Replacement:

- The machine's refrigerant management system will prompt you when the filter life is at 1/3 remaining.
- Replace the 150 lb spin-on filter-drier as indicated by the machine or after significant use to maintain refrigerant purity and system efficiency.
- Refer to the full user manual for detailed instructions on filter replacement.

Oil Drain and Replacement:

- The automatic oil drain display will indicate the amount of oil recovered during the recovery process.
- Always empty the graduated container and replace the exact amount of oil removed with new, appropriate A/C lubricant.

General Cleaning:

- Keep the exterior of the machine clean and free of debris.
- Regularly check hoses and connections for wear or damage and replace as needed.

TROUBLESHOOTING

This section provides guidance on common issues you might encounter with your Robinair 34788NI machine. For more complex problems, refer to the comprehensive user manual or contact customer support.

Problem	Possible Cause	Solution
Machine does not power on.	No power supply; tripped circuit breaker; faulty power cord.	Check power connection and outlet. Reset circuit breaker. Inspect power cord for damage.
Vacuum leak test fails.	Leak in vehicle A/C system; loose hose connections; faulty machine component.	Inspect vehicle A/C system for leaks. Ensure all machine hose connections are tight. If problem persists, consult user manual or support.
Refrigerant recovery is slow or incomplete.	Low refrigerant in vehicle; clogged filter-drier; low ambient temperature.	Ensure sufficient refrigerant in vehicle. Check and replace filter-drier if needed. Operate in recommended temperature range.
Error message on display.	Specific operational issue or internal fault.	Note the error code/message and refer to the "Error Codes" section in the full user manual for specific solutions.

SPECIFICATIONS

Detailed technical specifications for the Robinair 34788NI machine.

ROBINAIR

34788NI Premium R-134a Recovery, Recycling, and Recharging Machine

4.3" full-color multilingual display

Fully-automatic function: program to recover, vacuum, leak test and charge without operating panel valves

Automatic oil drain/inject and air purge

Programmable vacuum function with 15-minute default - technician programmable up to 99 minutes

Vacuum leak test monitors level after evacuation, informs of possible leak

95%+ refrigerant recovery efficiency with charging accuracy to +/- 1/2 oz.

Save and print before and after service data

Automatic refrigerant refill maintains selectable amount of refrigerant, signals when it's time to change supply tank

Refrigerant management system displays refrigerant use, monitors remaining filter life

30 lb. DOT internal cylinder



Image: An annotated diagram of the Robinair 34788NI machine, highlighting key features such as the display, automatic functions,

refrigerant management system, and internal cylinder.

Attribute	Value
Model	34788NI
Refrigerant Type	R-134a
Voltage	125 VAC, 60 Hz
Item Weight	223 pounds
Product Dimensions (L x W x H)	36.5 x 25 x 49.5 inches
Operating Temperature Range	32-120°F (0-49°C)
Recovery Performance	95%+ at 70-75°F in less than 30 min
Filter-Drier Capacity	150 lb, spin-on
Hoses	9 ft
Compressor	3/8 hp
Vacuum Pump	1.5 cfm Dual Stage, 29.9 InHg
Internal Cylinder	30 lb DOT
Display	4.3" full-color multilingual

WARRANTY AND SUPPORT

Robinair provides support for its products to ensure customer satisfaction and operational longevity.

Warranty Information:

The Robinair 34788NI typically comes with a manufacturer's warranty. Based on customer feedback, this machine generally includes a **one-year warranty** from the date of purchase. Please refer to your purchase documentation or contact Robinair directly for the most accurate and up-to-date warranty terms and conditions.

Customer Support:

For technical assistance, troubleshooting beyond this manual, or warranty claims, please contact Robinair customer support. You can also refer to the official user manual for comprehensive details.

- **Official User Manual (PDF):** For detailed instructions and comprehensive troubleshooting, download the official user manual: [Download User Manual](#)
- **Robinair Website:** Visit the official Robinair website for product information, FAQs, and contact details.
- **Contact Information:** Refer to the Robinair website or your product packaging for direct customer service phone numbers or email addresses.

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This manual provides general information and guidelines. Always refer to the official Robinair user manual for complete and detailed instructions.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question