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VEVOR 1 HP Refrigerant Recovery Machine

VEVOR 1 HP Refrigerant Recovery Machine User Manual

Model: 1 HP Refrigerant Recovery Machine

Brand: VEVOR

INTRODUCTION

This user manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your VEVOR 1 HP Refrigerant Recovery Machine. Please read this manual thoroughly before operating the machine to ensure proper usage and to prevent damage or injury.



Figure 1: VEVOR 1 HP Refrigerant Recovery Machine, showcasing its compact design and control panel.

SAFETY INSTRUCTIONS

Always adhere to the following safety precautions to prevent personal injury or damage to the equipment:

- Ensure proper ventilation when operating the machine.
- Wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
- Do not operate the machine near open flames or sources of ignition.
- Verify that all connections are secure before starting the recovery process.
- Do not exceed the maximum operating pressure of 38.6 bar / 558 psi. The machine features automatic shutoff for high-pressure protection.
- Only recover refrigerants for which the machine is designed (R134A, R22, R12, R410A, R404A, R502, R1234YF, R32, etc.).
- Always use a certified recovery tank.
- Disconnect power before performing any maintenance or cleaning.

PRODUCT OVERVIEW AND COMPONENTS

The VEVOR 1 HP Refrigerant Recovery Machine is designed for efficient recovery of various refrigerants. Key components include:

- **Dual-Cylinder Brush Motor:** Provides high recovery speed.
- **Pressure Gauges:** Monitor system pressure.
- **Control Knob:** Selects operating modes (OFF, RECOVER SLOW, RECOVER FAST, PURGE).
- **IN/OUT Ports:** Connections for refrigerant hoses.
- **Circuit Breaker:** Overload protection.
- **Integrated Fan and Condenser:** For efficient heat dissipation.
- **Filter Screen:** Prevents impurities from entering the system.



Figure 2: Detailed front view of the machine, highlighting gauges and control knob.



Figure 3: Illustration of the machine's high-efficiency dual-cylinder configuration, enabling faster recovery rates.

WHAT'S IN THE BOX

- 1 x Refrigerant Recovery Machine
- 1 x Short Pipe
- 1 x Filter
- 1 x Power Cord
- 1 x Filter O-ring
- 1 x Manual

SETUP

Before initial use, ensure all components are present and undamaged. Connect the power cord to a compatible 120V 60Hz power outlet. Place the machine on a stable, level surface in a well-ventilated area.

VEVOR[®]
TOUGH TOOLS, HALF PRICE

HIGH-EFFICIENCY RECOVERY

1 HP Dual Cylinder Refrigerant
Recovery Machine



Conventional Refrigerant

R134a, R1234YF, R12, R401A,
R401C, R410A, etc

Flammable Refrigerant

R22, R32

Figure 4: The recovery machine set up for use with an outdoor AC unit, demonstrating hose connections.

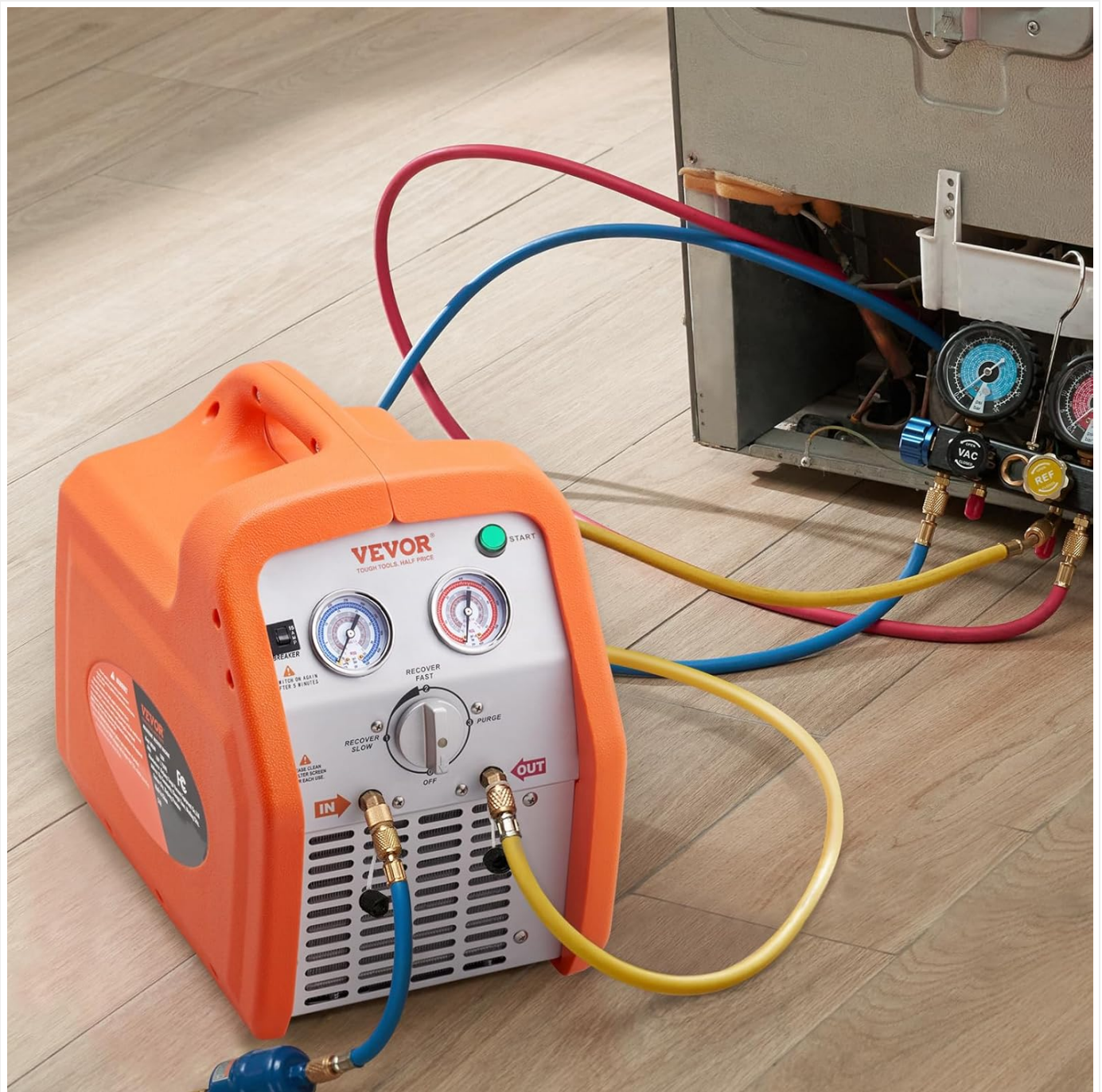


Figure 5: The recovery machine connected to a refrigerator, illustrating its versatility for various refrigeration equipment.

OPERATING INSTRUCTIONS

Follow these steps for refrigerant recovery and purging:

1. Refrigerant Recovery

1. Connect the 'IN' port of the recovery machine to the system being recovered using appropriate hoses.
2. Connect the 'OUT' port of the recovery machine to a certified recovery tank.
3. Ensure all connections are tight and leak-free.
4. Turn the control knob to either **RECOVER SLOW** or **RECOVER FAST** depending on the desired speed.
5. Press the **START** button. The machine will begin recovering refrigerant.
6. Monitor the pressure gauges during operation. The machine will automatically shut off if pressure exceeds 38.6 bar / 558 psi.
7. Once recovery is complete, turn the control knob to **OFF**.

ADJUSTABLE SPEED & SELF-PURGE

One knob to control 3 modes



Figure 6: Close-up of the control knob, illustrating the RECOVER SLOW, RECOVER FAST, and PURGE settings.

ACCESS TO RECOVER ALL KINDS OF REFRIGERANTS

Strong compatibility, no additional purchase



Figure 7: Visual representation of the machine's broad compatibility with different refrigerant types for cars, air conditioners, and refrigerators.

2. Self-Cleaning (Purge Function)

After each use, utilize the self-cleaning function to discharge any leftover refrigerant and prevent machine damage:

1. Ensure the 'OUT' port is connected to the recovery tank.
2. Turn the control knob to **PURGE**.
3. The machine will activate its self-cleaning function, safely discharging residual refrigerant.
4. Once the purge cycle is complete, turn the control knob to **OFF**.

Official Product Video



Video 1: An overview of the VEVOR 1HP Refrigerant Recovery Machine, demonstrating its features and proper usage. The video highlights the dual-cylinder design, high-pressure protection, and self-cleaning function, providing a visual guide to the machine's operation and benefits for HVAC and automotive applications.

MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your recovery machine:

- **Filter Screen:** The reusable and easy-to-clean filter screen blocks impurities and moisture. Regularly inspect and clean the filter screen. Replace it if damaged or excessively clogged to maintain refrigerant purity and prevent oxidation/rusting.
- **General Cleaning:** Keep the exterior of the machine clean and free of debris.
- **Storage:** Store the machine in a dry, cool place when not in use.



Figure 8: Illustration of the dual barrier system, including the filter net and advanced dryer, designed to isolate impurities and water from the refrigerant.

TROUBLESHOOTING

Refer to the table below for common issues and their potential solutions:

Problem	Possible Cause	Solution
Machine does not start.	No power; Circuit breaker tripped.	Check power connection; Reset circuit breaker (wait 5 minutes if tripped).

Problem	Possible Cause	Solution
Slow recovery rate.	Clogged filter; Low system pressure; Incorrect mode.	Clean/replace filter; Ensure adequate system pressure; Select RECOVER FAST mode.
Machine shuts off during operation.	High pressure protection activated.	Check for blockages in hoses/system; Ensure recovery tank is not full.
Refrigerant not recovering.	Incorrect hose connection; Valves closed.	Verify hose connections; Open all necessary valves.

SPECIFICATIONS

Feature	Detail
Net Weight	30.9 lbs / 14 kg
Power	1 HP
Voltage	120V ~ 60Hz
High Pressure Protection	558 PSI / 38.6 Bar
Operating Temperature	32°F-104°F / 0-40°C
Max. Liquid Recovery Rate	7.7 lb / min
Rotation Speed	1750 RPM
Air Inlet Interface	1/4" SAE
Exhaust Interface	1/4" SAE
Product Dimensions	9.8 x 15.7 x 14.2 inches



Figure 9: Visual representation of the machine's dimensions and key specifications.

WARRANTY AND SUPPORT

VEVOR products come with a warranty. For detailed warranty information, technical support, or service inquiries, please visit the official VEVOR website or contact their customer service. Keep your purchase receipt for warranty claims.

For more information, visit: [vevor.com/support](https://www.vevor.com/support)

