Cuilvu 167286-5334-1609242962

Cuilvu 30 LB Refrigerant Recovery Tank Instruction Manual

Model: 167286-5334-1609242962

1. Introduction

This manual provides essential instructions for the safe and effective use of your Cuilvu 30 LB Refrigerant Recovery Tank. This tank is designed for the recovery of various refrigerants, including R12, R22, R134A, and R410A, from household air conditioning units, refrigerators, and automotive systems. Please read this manual thoroughly before operation to ensure proper handling and to prevent injury or damage.

2. Safety Information

WARNING: Failure to follow these safety instructions may result in serious injury or property damage.

- Always wear appropriate personal protective equipment (PPE), including safety glasses and gloves, when handling refrigerants and the recovery tank.
- Ensure the recovery tank is placed on a stable, level surface in a vertical position during use and storage.
- **Do not mix different types of refrigerants in the same recovery tank.**Each tank should be dedicated to a single refrigerant type to prevent contamination and dangerous pressure build-up.
- This product is not a toy and is not intended for use by children. Keep out of reach of children.
- Before each use, inspect the tank for any signs of damage, corrosion, or leaks. Do not use a damaged tank.
- Ensure all connections are tight and leak-free before starting any recovery process.
- Verify that the tank has all necessary Department of Transportation (DOT) markings if it will be transported or exchanged. Tanks without proper certification may not be accepted by recycling facilities.
- Do not overfill the tank. Follow refrigerant recovery guidelines for maximum fill levels to prevent hydrostatic rupture.
- Store the tank in a cool, dry, well-ventilated area, away from direct sunlight and heat sources.

3. Product Overview

The Cuilvu Refrigerant Recovery Tank is constructed from durable HP295 stainless steel, designed for longevity and resistance to deformation. It features a Y-valve for efficient vapor and liquid refrigerant handling and robust handles for easy transport.

Key Features:

- **HP295 Material:** Constructed from HP295 stainless steel for durability and corrosion resistance.
- **Y-Valve Design:** Features a brass ball Y-valve with plastic knobs for independent control of vapor and liquid flow.
- **Collar Style Handles:** Ergonomically designed handles for secure gripping and ease of movement.
- **1/4 Brass Connector:** Standard 1/4 SAE brass connector for compatibility with refrigeration machines.
- **Thickened Base:** A reinforced round base enhances stability.
- **Powder Coating:** Exterior powder coating provides an enhanced appearance and additional protection.

Image 3.1: Cuilvu Refrigerant Recovery Tank highlighting collar style handles, 1/4 brass connector, stainless steel bottle, and roll core thickened base.

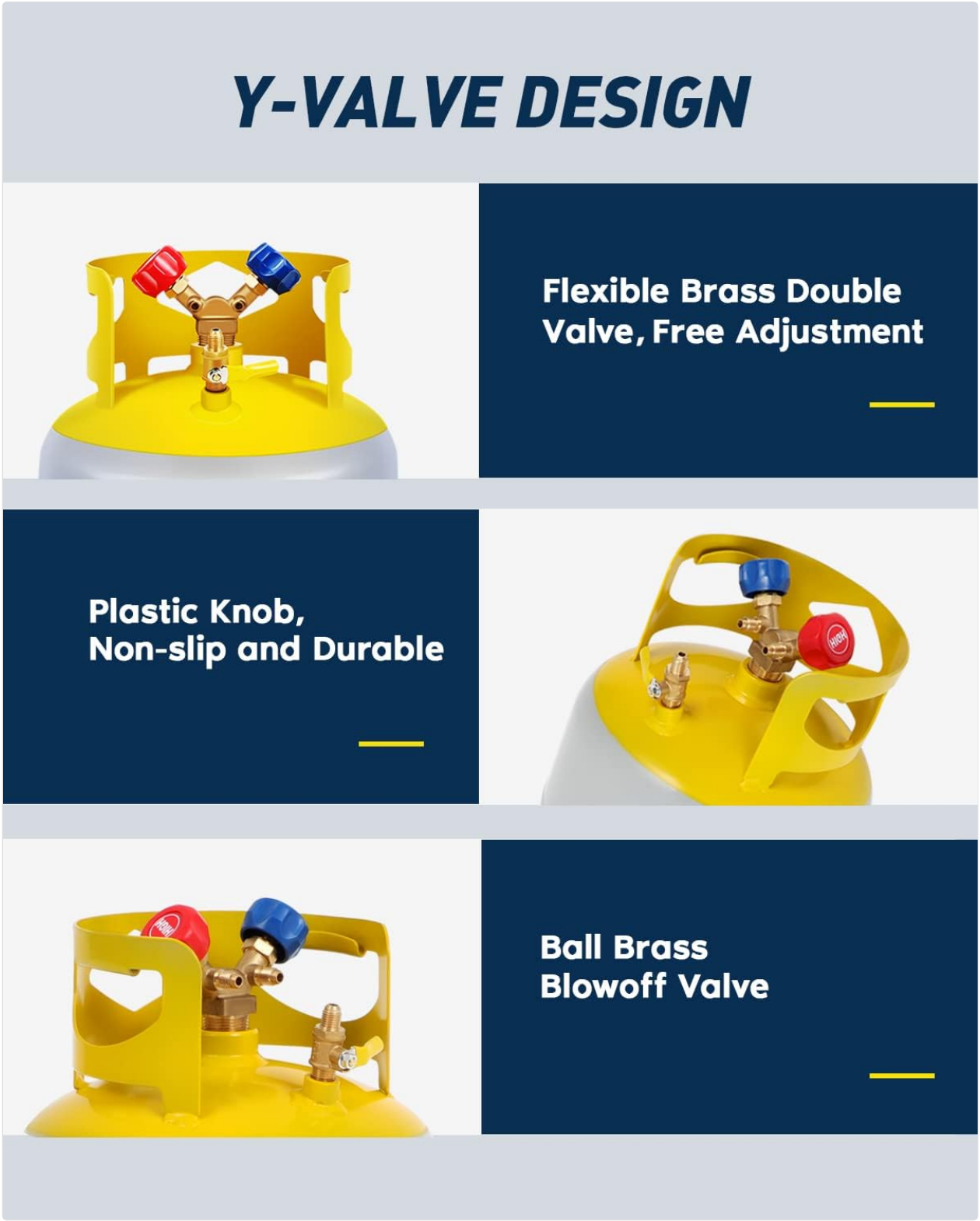

Image 3.2: Detailed view of the Y-valve design, showing flexible brass double valve, plastic knob, and ball brass blowoff valve.

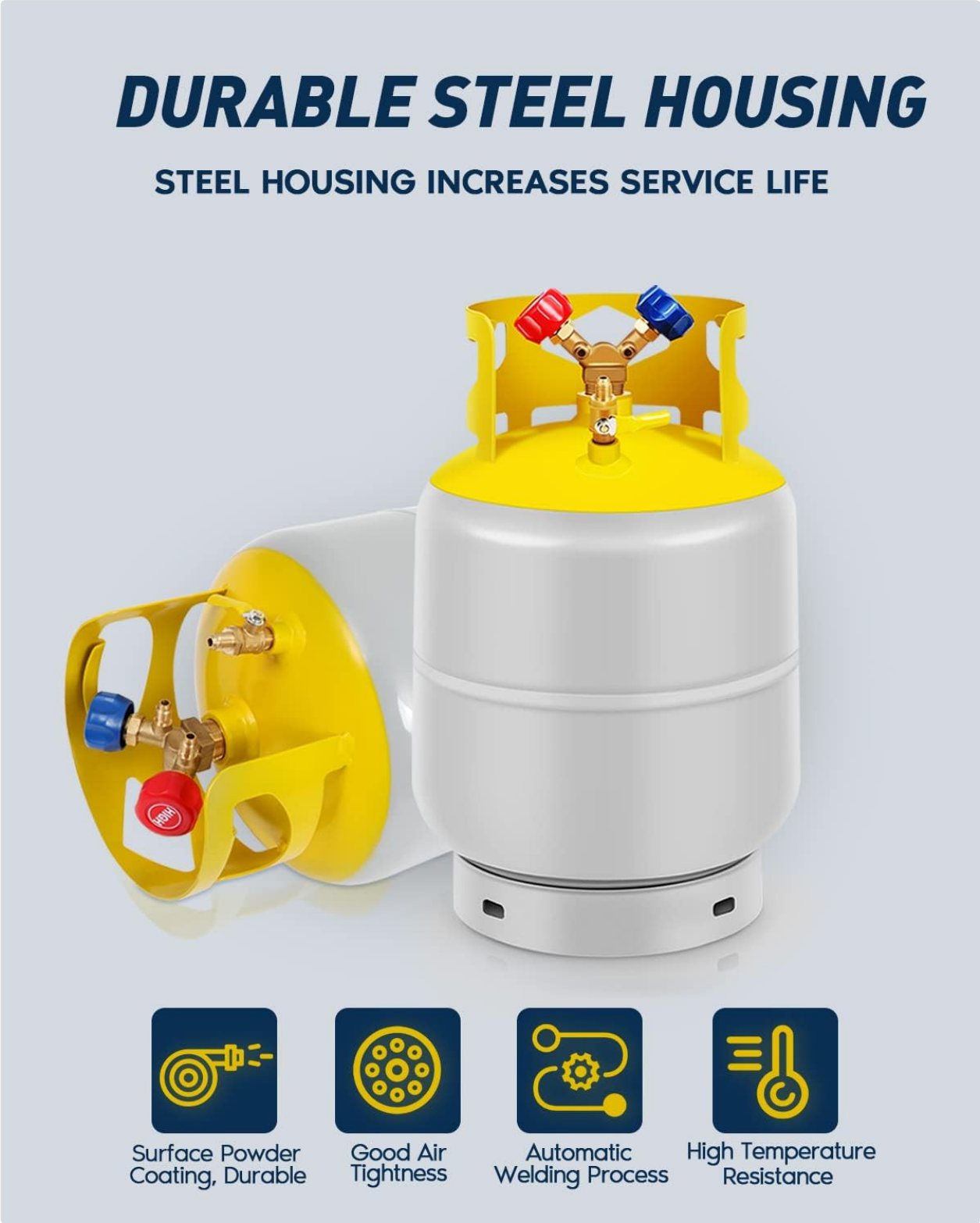

Image 3.3: Illustration of the tank's durable steel housing, emphasizing surface powder coating, good air tightness, automatic welding process, and high temperature resistance.

4. Specifications

Image 4.1: Product dimensions and a summary of technical specifications.

Specification	Value
Brand	Cuilvu
Model Number	167286-5334-1609242962
Item Weight	16.12 pounds
Product Dimensions	19.88 x 11.81 x 11.81 inches
Material	HP295 Steel, Brass

Specification	Value
Nominal Water Capacity	>26.2 lb
Service Pressure	400 PSI / 2.7 MPa
Tank Test Pressure	800 PSI / 5.5 MPa
Relief Valve Pressure	600 PSI / 4.1 MPa
Adaptive Temperature	-20 to 55 Degrees Celsius
Special Features	Recovery Tank, Y-Valve

5. Setup

Before connecting the recovery tank to any system, ensure it is empty and properly evacuated if it has been used previously. Always confirm the tank is suitable for the refrigerant type you intend to recover.

1. **Inspect the Tank:** Visually check the tank for any external damage, dents, or signs of corrosion. Ensure the valves are intact and operate smoothly.
2. **Position the Tank:** Place the recovery tank on a firm, level surface in a vertical orientation.
3. **Connect Hoses:** Connect appropriate recovery hoses from your recovery machine to the Y-valve ports on the tank. The Y-valve allows for separate vapor and liquid connections. Ensure all connections are securely tightened to prevent leaks.
4. **Verify Refrigerant Type:** Confirm that the tank is designated for the specific refrigerant being recovered. Do not use a tank that has previously contained a different refrigerant without proper cleaning and certification.

6. Operating Instructions

The following steps outline a general procedure for refrigerant recovery. Always refer to the specific instructions of your refrigerant recovery machine and local regulations.

1. **Prepare the System:** Ensure the system from which refrigerant is being recovered is depressurized as much as possible before connecting the recovery equipment.
2. **Connect Recovery Machine:** Connect the recovery machine to the system and to the recovery tank using appropriate hoses.
3. **Open Tank Valves:** Slowly open the vapor and liquid valves on the recovery tank's Y-valve.
4. **Start Recovery:** Activate your refrigerant recovery machine according to its manufacturer's instructions. Monitor the pressure gauges on the recovery machine and the tank.
5. **Monitor Fill Level:** Continuously monitor the weight of the recovery tank to prevent overfilling. The maximum fill capacity is critical for safety.
6. **Complete Recovery:** Once the system is evacuated to the desired vacuum level, shut off the recovery machine.
7. **Close Tank Valves:** Close the liquid and vapor valves on the recovery tank.
8. **Disconnect:** Carefully disconnect the hoses from the tank and the system, ensuring minimal refrigerant release.

Image 6.1: Examples of application scenarios, including household refrigerators, commercial refrigeration units, and automotive air conditioning systems.

7. Maintenance

Proper maintenance ensures the longevity and safe operation of your recovery tank.

- **Regular Inspection:** Periodically inspect the tank for any signs of physical damage, rust, or leaks. Pay close attention to valve connections and the tank body.
- **Valve Care:** Keep the Y-valve clean and free of debris. If valves become stiff or difficult to turn, they may require servicing by a qualified technician.
- **Storage:** Store the tank in a cool, dry, well-ventilated area, away from corrosive chemicals and extreme

temperatures. Ensure valves are tightly closed during storage.

- **Empty Tank Storage:** If storing an empty tank, it is recommended to store it with a slight positive pressure of dry nitrogen to prevent internal corrosion and moisture ingress.
- **Re-certification:** Recovery tanks have a limited service life and require periodic re-certification by authorized facilities according to local and national regulations. Check the tank's markings for re-test dates.

8. Troubleshooting

This section addresses common issues you might encounter with your refrigerant recovery tank.

- **Leakage from Valves or Connections:**
  Solution: Ensure all hose connections are securely tightened. Inspect the valve stems and seals for any visible damage or wear. If a valve is leaking, it may need to be replaced or serviced by a professional. Do not use a leaking tank.
- **Tank Not Accepted by Recycler/HVAC Supplier:**
  Solution: Verify that the tank has all required DOT (Department of Transportation) markings and is within its re-certification date. Tanks lacking proper certification or with expired certifications may be deemed illegal for transport or exchange. Contact the supplier or a certified re-tester for guidance.
- **Moisture Contamination Detected in Tank:**
  Solution: Moisture can degrade refrigerant quality and damage systems. If moisture is present, the tank was likely not properly evacuated before use or was stored improperly. The tank should be evacuated and dried by a professional before further use.
- **Difficulty Connecting Hoses:**
  Solution: Ensure you are using the correct 1/4 SAE fittings. Check for any debris or damage in the threads of the tank valves or hoses. Do not force connections.

9. Warranty and Support

Cuilvu is committed to providing quality products and customer satisfaction. If you encounter any issues or have questions regarding your refrigerant recovery tank, please do not hesitate to contact our customer service team.

- **After-Sales Service:** We offer 24-hour after-sales service to assist you with any problems.
- **Contact:** For support, please refer to the contact information provided with your purchase or visit the official Cuilvu store online.

We will endeavor to provide you with a perfect solution to any after-sales problems.