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Value VRR24M-C

Value VRR24M-C Refrigerant Recovery Unit User Manual

Model: VRR24M-C

Brand: Value

PRODUCT OVERVIEW

The Value VRR24M-C is a compact and efficient refrigerant recovery unit designed for professional use. It is suitable for recovering various types of refrigerants, including R12, R134a, R407c, R22, R410a, R32, and R1234yf, among others. Its robust design and user-friendly features make it an essential tool for HVAC/R technicians.



Image: The Value VRR24M-C Refrigerant Recovery Unit, showcasing its compact design, control panel with gauges, and connection ports. The unit features a sturdy handle for portability and a ventilation grille on the side.

Key Features:

- Designed for fast refrigerant recovery.
- Handy and compact size for easy transport and storage.
- Equipped with high and low-pressure gauges for precise monitoring.
- Manual reset function for operational safety.
- Simple operation knob for ease of use.
- Air-cooled, oil-free, and maintenance-free piston compressor.
- Automatic shutdown feature for safety.

SAFETY INFORMATION

Always read and understand all safety warnings and instructions before operating the VRR24M-C unit. Failure to do so may result in serious injury or equipment damage.

- Personal Protective Equipment (PPE):** Always wear appropriate PPE, including safety glasses, gloves, and protective clothing, when handling refrigerants.
- Ventilation:** Operate the unit in a well-ventilated area to prevent the accumulation of refrigerant vapors, which can displace oxygen and cause asphyxiation.
- Electrical Safety:** Ensure the power supply matches the unit's requirements (230V/50Hz). Do not operate with damaged cords or plugs. Avoid operating in wet conditions.

- **Refrigerant Handling:** Be aware of the specific properties of the refrigerant being recovered. Some refrigerants are flammable or toxic.
- **Pressure Safety:** Do not exceed the maximum operating pressures. The unit features an automatic shutdown at 38.5 bar (558 psi).
- **Cylinders:** Use only approved recovery cylinders. Do not overfill recovery cylinders.
- **Maintenance:** Disconnect power before performing any maintenance or cleaning.

SETUP

1. **Unpacking:** Carefully remove the VRR24M-C unit from its packaging. Inspect for any shipping damage.
2. **Placement:** Place the unit on a stable, level surface in a well-ventilated area, away from direct sunlight or heat sources.
3. **Power Connection:** Connect the power cord to a grounded 230V/50Hz electrical outlet. Ensure the power switch on the unit is in the "OFF" position before connecting.
4. **Hose Connections:**
 - Connect the appropriate hoses from the system to be recovered to the "IN" port of the recovery unit.
 - Connect a hose from the "OUT" port of the recovery unit to the recovery cylinder.
 - Ensure all connections are tight to prevent leaks.
5. **Cylinder Preparation:** Ensure the recovery cylinder is empty and has sufficient capacity for the refrigerant being recovered. Weigh the cylinder before and during recovery to prevent overfilling.

OPERATING INSTRUCTIONS

The VRR24M-C unit offers different recovery modes for optimal performance.

General Operation Steps:

1. Ensure all hoses are correctly connected and valves are in the appropriate positions (refer to your system's specific recovery procedure).
2. Turn the main power switch to the "ON" position.
3. Select the desired recovery mode using the operation knob (e.g., Gas, Liquid, Push/Pull).
4. Monitor the high and low-pressure gauges during the recovery process.
5. The unit will automatically shut off if the pressure exceeds 38.5 bar (558 psi).
6. Once recovery is complete, or the system pressure reaches the desired vacuum level, turn off the unit and close all valves.
7. Disconnect hoses carefully, being mindful of any residual pressure.

Recovery Efficiency (Approximate):

Refrigerant Category	Mode	Efficiency (kg/min)
Category III (e.g., R12, R134a, R401c, R406a, R500, R1234yf)	Gas	2.6
	Liquid / Push / Pull	7.50
Category IV (e.g., R22, R401a, R401b, R402b, R407c, R407d, R408a, R409a, R502, R509)	Gas	2.9

Refrigerant Category	Mode	Efficiency (kg/min)
	Liquid / Push / Pull	8.50
Category V (e.g., R402a, R404a, R407a, R407b, R410a, R507, R32)	Gas	3.9
	Liquid / Push / Pull	9.50

Note: Recovery efficiency may vary based on ambient temperature, system conditions, and refrigerant type.

MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your VRR24M-C unit.

- **Cleaning:** Keep the unit clean and free of dust and debris. Wipe the exterior with a damp cloth. Do not use harsh chemicals.
- **Hose Inspection:** Regularly inspect hoses and fittings for wear, cracks, or leaks. Replace damaged components immediately.
- **Filter Maintenance:** If applicable, check and clean or replace any internal filters according to the manufacturer's recommendations (no specific filter mentioned in data, so keep general).
- **Storage:** When not in use, store the unit in a dry, cool place, protected from extreme temperatures and direct sunlight.
- **Compressor:** The unit features an oil-free and maintenance-free piston compressor, reducing routine maintenance needs for this component.

TROUBLESHOOTING

This section provides solutions to common operational issues. For problems not listed here, contact qualified service personnel.

Problem	Possible Cause / Solution
Unit does not power on.	◦ Check if the power cord is securely plugged into a live outlet. ◦ Verify the power switch is in the "ON" position. ◦ Check the circuit breaker or fuse for the power outlet.
Slow recovery rate.	◦ Ensure hoses are properly connected and not kinked. ◦ Check for blockages in hoses or filters. ◦ Verify the correct recovery mode (Gas/Liquid) is selected for the refrigerant state. ◦ Ambient temperature may be too low (operating temperature 0-40°C).
Unit shuts down automatically.	◦ High-pressure shutdown: The pressure may have exceeded 38.5 bar (558 psi). Check for overfilled recovery cylinder or blockages. ◦ Overheating: Ensure adequate ventilation around the unit. Allow the unit to cool down.

Problem	Possible Cause / Solution
Refrigerant leaks detected.	◦ Tighten all hose connections and fittings. ◦ Inspect hoses for damage and replace if necessary. ◦ Check O-rings and seals on connections.

SPECIFICATIONS

Parameter	Value
Product Model	VRR24M-C
Compatible Refrigerants	Category III: R12, R134a, R401c, R406a, R500, R1234yf Category IV: R22, R401a, R401b, R402b, R407c, R407d, R408a, R409a, R502, R509 Category V: R402a, R404a, R407a, R407b, R410a, R507, R32
Power Supply	230V / 50Hz
Motor Power	1 HP
Motor Speed	3000 RPM
Maximum Current	5 A
Compressor Type	Piston compressor, air-cooled, oil-free, maintenance-free
Automatic Shutdown Pressure	38.5 bar / 3850 kPa (558 psi)
Operating Temperature	0 - 40 °C
Dimensions (L x W x H)	370 x 250 x 300 mm
Weight	11.5 kg
Compatible Devices	Refrigerator, Air Conditioner, Cooling Unit

WARRANTY AND SUPPORT

Specific warranty details are not provided in the product information. Please refer to your purchase documentation or contact the retailer/manufacturer for warranty terms and conditions.

For technical support or service inquiries, please contact Value customer service or your authorized dealer.





[VALUE VRR24M-C Recovery Unit User Manual](#)

User manual for the VALUE VRR24M-C Refrigerant Recovery Unit, detailing general safety, operation, specifications, parts, wiring, and troubleshooting.



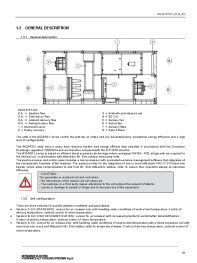
[Airwell PRIME Series Service Manual](#)

Comprehensive service manual for Airwell PRIME Series air conditioners, detailing technical specifications, operation, troubleshooting, and parts for models including PRIME 7, 9, 12, and 18, utilizing R410A and R22 refrigerants.



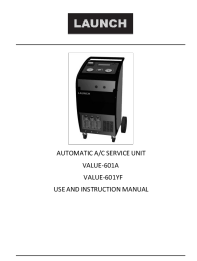
[Copeland C-Series Refrigerant Leak Detection System Quick Start Guide](#)

Quick start guide for the Copeland C-Series Refrigerant Leak Detection System (CRLDS), covering installation, operation, safety, and maintenance. Features include LED indicators, relay outputs, and Bluetooth connectivity via the Copeland app.



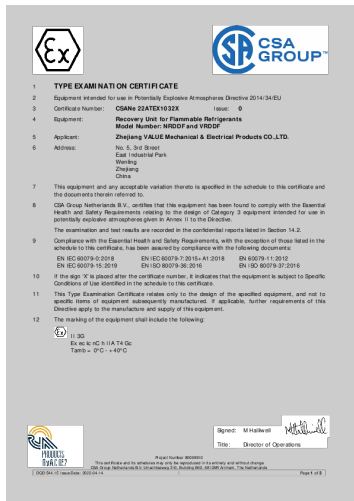
[Mitsubishi Electric WIZARDX Air Handling Units: Technical Overview and Specifications](#)

Detailed technical overview of Mitsubishi Electric WIZARDX series air handling units, covering general description, unit configurations (C-OU, B-OU, E-OU), dimensions, weight, packaging, transport, storage, and installation guidelines.



[Launch VALUE-601A/601YF Automatic A/C Service Unit User Manual](#)

Comprehensive user and instruction manual for the Launch VALUE-601A and VALUE-601YF Automatic A/C Service Units, covering installation, operation, maintenance, safety, and accessory functions.

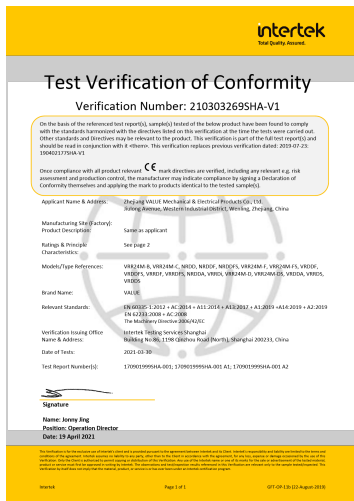


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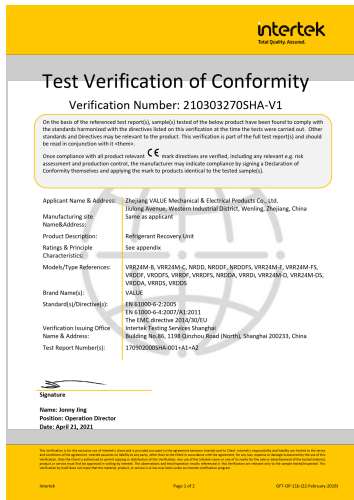


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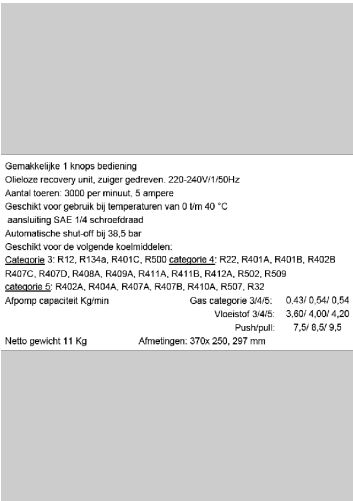


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