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AUX Trial 12+12+12 (Outdoor Unit AM4-H28/4DR3C)

AUX DC Inverter Multi-Split Air Conditioner System (Trial 12+12+12) User Manual

Model: Trial 12+12+12 (Outdoor Unit AM4-H28/4DR3C)

1. INTRODUCTION

This manual provides comprehensive instructions for the AUX DC Inverter Multi-Split Air Conditioner System, designed for efficient cooling and heating of multiple rooms. This system utilizes R-32 refrigerant and features advanced DC Inverter technology for optimal performance and energy savings. Please read this manual thoroughly before installation, operation, or maintenance to ensure correct usage and to prevent damage to the unit or injury to personnel.

2. SAFETY INFORMATION

Always adhere to the following safety precautions to prevent electric shock, fire, injury, or damage to the unit:

- Installation must be performed by qualified and authorized personnel only, in accordance with national wiring regulations.
- Ensure the power supply matches the unit's specifications.
- Do not attempt to repair or modify the unit yourself. Contact qualified service personnel.
- Ensure proper grounding to prevent electric shock.
- Do not block the air inlet or outlet of the indoor or outdoor units.
- Keep children away from the unit during operation.
- The refrigerant R-32 is mildly flammable. Handle with care and ensure proper ventilation during installation and servicing.

3. PACKAGE CONTENTS

Upon unpacking, verify that all components are present and undamaged. The standard package for the AUX DC Inverter Multi-Split Air Conditioner System (Trial 12+12+12) typically includes:

- One (1) Outdoor Unit (Model: AM4-H28/4DR3C)
- Three (3) Indoor Units (e.g., 12000 BTU units, or a combination of 9000 BTU and 12000 BTU units as per your specific order)
- Three (3) Remote Controls for Indoor Units
- User Manual and Installation Guide

- Mounting accessories for indoor units

Note: Specific indoor unit models and quantities may vary based on the purchased configuration.

4. SPECIFICATIONS

The following table outlines the key technical specifications for the AUX DC Inverter Multi-Split Air Conditioner System:

Feature	Specification
Brand	AUX
Outdoor Unit Model	AM4-H28/4DR3C
Cooling Capacity (Total)	29650 BTU
Heating Capacity (Total)	30776 BTU
Power Supply	Single-phase 220-240V/1/50Hz
SEER	6.3
SCOP	4.1
Energy Class	A++A+
Refrigerant	R-32
Outdoor Unit Airflow	3100 m ³ /h
Outdoor Unit Sound Pressure Level	56 dB
Operating Limit (Temperature)	-35°C to +55°C
Outdoor Unit Dimensions (LxWxH)	832 x 328 x 655 mm
Liquid Line Size	1/4 inch
Gas Line Size	3/8 inch
Maximum Line Length	70 meters
Maximum Single Line Length	30 meters
Maximum Dislevel (Outdoor to Indoor)	15 meters
Maximum Dislevel (Between Indoor Units)	10 meters
Indoor Unit (9000 BTU) Cooling Capacity	11260 BTU
Indoor Unit (9000 BTU) Heating Capacity	11260 BTU
Indoor Unit (9000 BTU) Airflow	800 m ³ /h
Indoor Unit (9000 BTU) Dimensions (LxWxH)	792 x 200 x 285 mm
Indoor Unit (9000 BTU) Connections	1/4 inch, 3/8 inch
Indoor Unit (9000 BTU) Drain Diameter	16.5 mm
Indoor Unit (9000 BTU) Minimum Noise Level	19 dB
Indoor Unit (12000 BTU) Cooling Capacity	12625 BTU

Feature	Specification
Indoor Unit (12000 BTU) Heating Capacity	12966 BTU
Indoor Unit (12000 BTU) Airflow	600 m ³ /h
Indoor Unit (12000 BTU) Dimensions (LxWxH)	750 x 200 x 285 mm
Indoor Unit (12000 BTU) Connections	1/4 inch, 3/8 inch
Indoor Unit (12000 BTU) Drain Diameter	16.5 mm
Indoor Unit (12000 BTU) Minimum Noise Level	19 dB
Total Weight	120 kg
Control Type	Remote Control

5. INSTALLATION

Installation of this multi-split air conditioning system requires specialized knowledge and tools. It must be performed by certified HVAC technicians.

5.1 General Guidelines

- **Location Selection:** Choose a location for the outdoor unit that allows for adequate airflow and is away from direct sunlight or heat sources. Indoor units should be placed to ensure even air distribution.
- **Mounting:** Securely mount indoor and outdoor units according to the provided installation diagrams.
- **Refrigerant Piping:** Connect the liquid and gas lines between the outdoor unit and each indoor unit. The system uses R-32 refrigerant, which operates at similar pressures to R410A. Ensure compatibility of tools (manifold gauge, leak detector, recovery unit) with R-32. R-32 is a pure gas, simplifying charging procedures compared to refrigerant mixtures.
- **Drainage:** Install condensate drain pipes with proper slope to ensure efficient water removal.
- **Electrical Wiring:** Connect the power supply and communication cables according to the wiring diagram. Ensure all connections are secure and properly insulated.
- **Vacuumping and Charging:** Evacuate the system to remove non-condensable gases and moisture. Charge with the correct amount of R-32 refrigerant.

For detailed installation steps, refer to the separate Installation Manual provided with the product.



Image showing the outdoor unit of the AUX DC Inverter Multi-Split Air Conditioner System. This unit connects to multiple indoor units for comprehensive climate control.

6. OPERATION

Your AUX air conditioner system is controlled via a wireless remote control. Familiarize yourself with the remote control functions for optimal use.

6.1 Basic Operation

- **Power On/Off:** Press the power button on the remote control to turn the unit on or off.
- **Mode Selection:** Select desired operating mode (Cool, Heat, Fan, Dry, Auto) using the Mode button.
- **Temperature Adjustment:** Use the temperature up/down buttons to set the desired room temperature.
- **Fan Speed:** Adjust fan speed (Auto, Low, Medium, High) to your preference.

6.2 Advanced Functions

- **24H Timer:** This function allows you to set a specific time for the air conditioner to turn on or off within a 24-hour period.
- **I Feel Function:** When activated, the remote control's built-in temperature sensor measures the ambient temperature and sends the data to the indoor unit, allowing the unit to adjust its operation for enhanced comfort around the remote control's location.
- **Super Cooling:** Provides rapid cooling to quickly reach the desired temperature.
- **Smart Function:** Pressing the 'Smart' button on the remote control enables the air conditioner to operate in the most comfortable mode based on the current room temperature, automatically adjusting settings.
- **Sleep Function:** Optimizes temperature and fan speed settings during sleep for comfort and energy efficiency.

- **Wi-Fi Control (Optional):** If equipped with the optional Wi-Fi module, the system can be controlled remotely via a smartphone application. Refer to the Wi-Fi module manual for setup instructions.

7. FEATURES

The AUX DC Inverter Multi-Split Air Conditioner System incorporates several advanced features for superior performance and user experience:

- **Full DC Inverter Technology:** Features a digital control signal, DC Inverter compressor, DC Inverter motors on both indoor and outdoor units, and an electronic expansion valve. This ensures low noise levels and high efficiency.
- **DC Inverter Twin Rotary Compressor:** The newly designed BLDC Inverter twin rotary compressor provides improved balance and reduced vibrations, leading to maximum quietness and excellent efficiency and energy savings.
- **Electronic Expansion Valve:** Precisely controls refrigerant flow for optimal system performance.
- **Low Voltage Operation:** The outdoor unit can operate within a wide voltage range (176V to 264V), ensuring stable performance even with voltage fluctuations.
- **Auto-diagnosis and Automatic Protection:** The system can detect operational anomalies and activate protective measures.
- **Low Temperature Heating:** Capable of providing effective heating even at outdoor temperatures as low as -15°C.
- **Auto Defrost:** Automatically defrosts the outdoor unit coil to maintain heating efficiency in cold conditions.
- **8°C Restart:** A function that maintains a minimum temperature of 8°C to prevent freezing in unoccupied rooms during winter.
- **Anti-mold Function:** After the air conditioner is turned off, the indoor fan continues to operate for 30 seconds to dry any condensation inside the indoor unit, preventing mold formation.
- **Advanced Filtration:** Includes an active carbon filter and a 4-in-1 filter system for improved air quality.
- **Rubidium Magnet Compressor:** Enhances efficiency and reduces power consumption through increased gas molecule compression.
- **Optimized Heat Exchanger Design:** The external heat exchanger is designed to maximize heat transfer, improving the refrigeration circuit's efficiency and preventing ice blockages. It also supports long-distance connections between units without reducing cooling capacity.

8. MAINTENANCE

Regular maintenance ensures the longevity and efficient operation of your air conditioning system. Always turn off the power supply before performing any maintenance.

8.1 Indoor Unit Maintenance

- **Filter Cleaning:** Clean the air filters every two weeks or more frequently depending on usage and air quality. Remove filters, wash with lukewarm water, dry thoroughly, and reinsert.
- **Unit Surface Cleaning:** Wipe the indoor unit's surface with a soft, damp cloth. Do not use harsh detergents or abrasive cleaners.
- **Anti-mold Function:** Utilize the built-in anti-mold function to keep the indoor coil dry.

8.2 Outdoor Unit Maintenance

- **Coil Cleaning:** Periodically check and clean the outdoor unit's coil to remove dust, leaves, and other debris that can obstruct airflow. This should ideally be done by a professional.
- **Clear Obstructions:** Ensure that there are no obstructions around the outdoor unit that could impede airflow.

8.3 Professional Servicing

It is recommended to have your system professionally serviced at least once a year by a qualified technician. This includes

checking refrigerant levels, electrical connections, and overall system performance.

9. TROUBLESHOOTING

Before contacting service personnel, review the following common issues and their potential solutions:

Problem	Possible Cause	Solution
Unit does not turn on	No power supply; Remote control batteries low; Circuit breaker tripped	Check power connection; Replace batteries; Reset circuit breaker
Insufficient cooling/heating	Dirty air filters; Blocked outdoor unit; Incorrect mode/temperature setting; Low refrigerant	Clean filters; Clear obstructions; Adjust settings; Contact technician for refrigerant check
Unusual noise	Loose parts; Fan obstruction; Refrigerant flow noise (normal)	Check for loose parts; Clear obstructions; If persistent or loud, contact technician
Water leakage from indoor unit	Blocked drain pipe; Improper installation	Clear drain pipe; Contact technician for inspection
Remote control not working	Batteries low/dead; Obstruction between remote and unit	Replace batteries; Ensure clear line of sight

The system features an auto-diagnosis function. If an error code appears on the display, consult the detailed troubleshooting section in the full user manual or contact customer support with the error code.

10. WARRANTY AND SUPPORT

Your AUX DC Inverter Multi-Split Air Conditioner System is covered by a manufacturer's warranty.

- **Factory Warranty:** A 5-year factory warranty is provided for certain components.
- **Product Warranty:** A general 2-year product warranty applies.

Please refer to your purchase documentation for specific warranty terms and conditions, as these may vary by region and retailer. For warranty claims, technical support, or service requests, please contact your authorized dealer or the AUX customer service department.