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› Cooper & Hunter 28,000 BTU 3-Zone Multi-Zone Ductless Mini Split Air Conditioner Heat Pump User Manual

Cooper & Hunter Cooper&Hunter Multi-Zone series 28000 BTU 9+9+9

Cooper & Hunter 28,000 BTU 3-Zone Multi-Zone Ductless Mini Split Air Conditioner Heat Pump User Manual

Model: Cooper&Hunter Multi-Zone series 28000 BTU 9+9+9

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation, installation, and maintenance of your Cooper & Hunter 28,000 BTU 3-Zone Multi-Zone Ductless Mini Split Air Conditioner Heat Pump system. Please read this manual thoroughly before installation and use, and retain it for future reference.

2. SAFETY INFORMATION

Important Safety Instructions:

- **Professional Installation Required:** This equipment is not designed for DIY installation. Installation, maintenance, and repair must be performed by qualified, licensed HVAC professionals. Improper installation can result in electric shock, fire, water leakage, or other hazards, and may void the product warranty.
- Ensure the power supply matches the unit's specifications (208-230V).
- Do not operate the unit with wet hands or when standing on a wet surface.
- Keep children and pets away from the outdoor unit.
- Do not insert objects into the air inlet or outlet.
- Turn off the power supply before cleaning or performing any maintenance.
- Ensure proper grounding to prevent electric shock.

3. PRODUCT OVERVIEW

The Cooper & Hunter Multi-Zone Ductless Mini Split system provides efficient heating and cooling for multiple zones. This specific model is a 28,000 BTU system with three 9,000 BTU indoor units, offering a 24.6 SEER2 rating for energy efficiency.

3.1 System Components

INCLUDED WITH YOUR ORDER

3 — Wall Mount Air Handlers with remotes



1 — Outdoor condenser



3 — Pre-flared and insulated
copper line sets



3 — Communication
wires



3 — 16Ft Drainage extension
with small accessories

Figure 3.1: System Components. This image displays the main components included with your Cooper & Hunter 3-Zone Mini Split system: three wall-mount air handlers with remotes, one outdoor condenser unit, three pre-flared and insulated copper line sets, three communication wires, and three 16ft drainage extensions with small accessories.

- **Outdoor Condenser Unit:** CH-28MES-230VO (28,000 BTU, 230V)
- **Indoor Wall Mount Air Handlers:** Three (3) CH-09MOLVWM-230VI (9,000 BTU each)
- **Remote Controls:** One for each indoor unit.
- **Installation Kits:** Includes 25ft pre-flared and insulated copper line sets, 25ft communication wires, and 16ft drainage extensions with small accessories for each air handler.
- **Smart Port Adapters:** For Wi-Fi connectivity and smartphone control.

3.2 Key Features

- **High Efficiency:** 24.6 SEER2 rating for reduced energy consumption.
- **Multi-Zone Capability:** Independently control temperature in up to three separate areas.
- **Inverter Technology:** Allows the compressor to run at variable speeds, optimizing performance and energy savings.
- **Heat Pump Functionality:** Provides both cooling and heating, effective down to -13°F (-25°C).

- **Quiet Operation:** Features Whisper Technology for low noise levels (23.5 Decibels).
- **Wi-Fi Enabled:** Control units remotely via smartphone app using smart port adapters.
- **Dehumidifier Function:** Helps manage indoor humidity levels.
- **Auto-Swing Louvers:** For even air distribution.
- **Self-Cleaning Function:** Assists in maintaining indoor unit cleanliness.

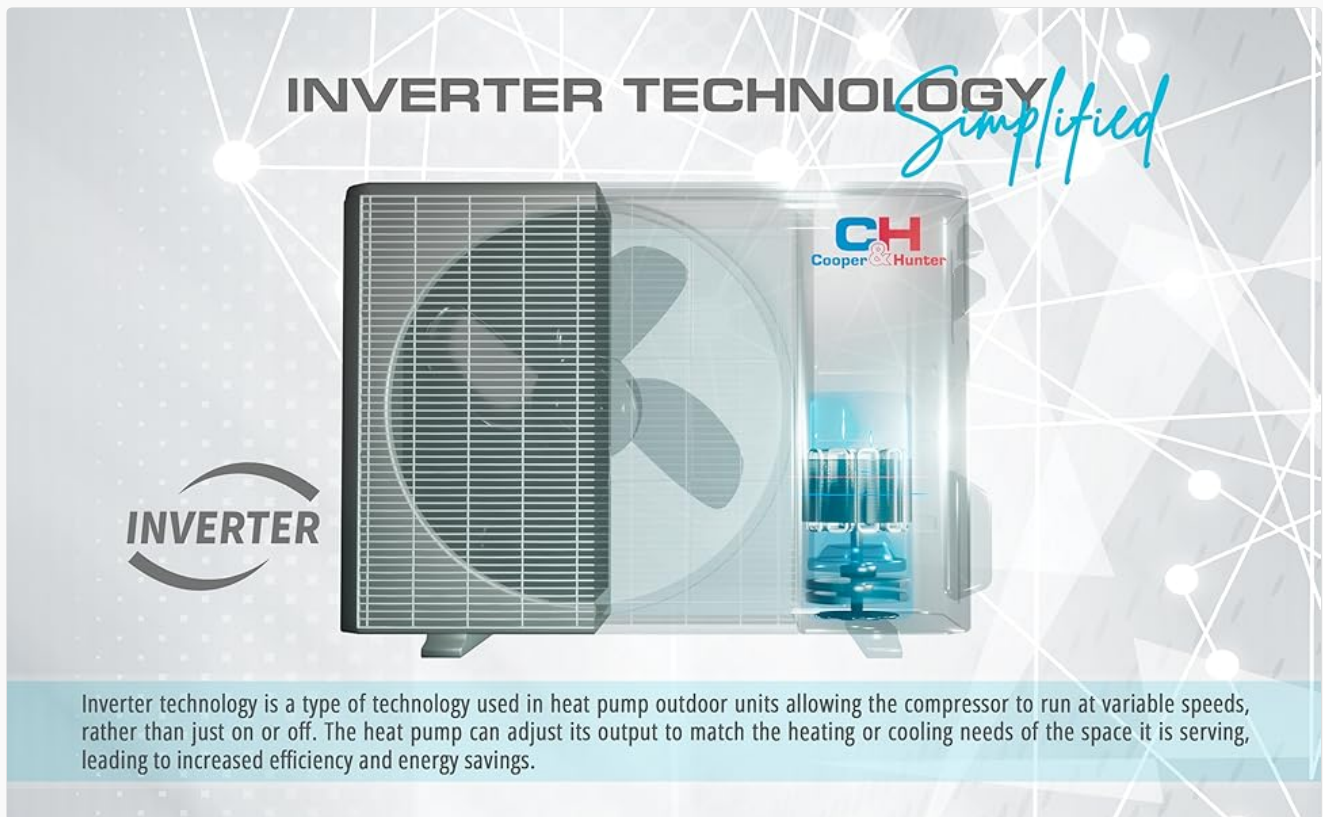


Figure 3.2: Inverter Technology. This diagram illustrates how inverter technology in the outdoor unit allows the compressor to adjust its speed, matching the heating or cooling demand for increased efficiency and energy savings.

4. SETUP & INSTALLATION

WARNING: Professional installation by a licensed HVAC technician is mandatory. Attempting to install this system without proper training and tools can lead to serious injury, property damage, and will void the product warranty.

Your Cooper & Hunter mini split system comes with essential installation components. However, specialized tools and expertise are required for proper setup, including:

- Proper sizing and placement of indoor and outdoor units.
- Electrical wiring according to local codes (208-230V).
- Connecting refrigerant lines, flaring, and ensuring leak-free connections.
- Evacuating the refrigerant lines using a vacuum pump.
- Charging the system with refrigerant (if necessary).
- Proper drainage setup for condensate.

INSULATION TYPE COMPARISON



**UV & UV-C
PROTECTED**



**REGULAR
INSULATION**

Figure 4.1: UV Protected Insulation. This image compares the durable, UV & UV-C protected insulation included with the Cooper & Hunter system against standard insulation, highlighting its resistance to environmental degradation.

NO KINK DRAINAGE EXTENSION



**INCLUDED: RUBBERIZED HOSE
WITH PLASTIC COIL INSERTS**



**OTHER BRANDS:
ONLY PLASTIC HOSE**

Figure 4.2: No-Kink Drainage Extension. This image illustrates the design of the included rubberized drainage hose with plastic coil inserts, which prevents kinking compared to typical plastic hoses.

Consult your professional installer for detailed information regarding the specific installation process and requirements for your location.

5. OPERATING INSTRUCTIONS

Each indoor unit is controlled independently using its dedicated remote control or the C&H Remote smartphone application.

5.1 Remote Control Operation

The remote control allows you to adjust settings for each indoor unit. Common functions include:

- **Power ON/OFF:** Turns the unit on or off.
- **Mode Selection:** Cycle through Cooling, Heating, Dry (Dehumidifier), Fan, and Auto modes.
- **Temperature Adjustment:** Set desired temperature.
- **Fan Speed:** Adjust fan speed (Low, Medium, High, Auto).

- **Swing Function:** Activates or deactivates the automatic louver swing.
- **Sleep Mode:** Adjusts temperature for comfortable sleep and energy saving.
- **Turbo Mode:** Provides rapid cooling or heating.
- **Follow Me Function:** Uses a sensor in the remote to measure ambient temperature, optimizing comfort around the remote's location.

5.2 Wi-Fi Control (C&H Remote App)

With the included smart port adapters, you can connect your units to Wi-Fi and control them from your smartphone using the C&H Remote app. This allows for remote operation, scheduling, and monitoring of your system from anywhere.



Figure 5.1: Smartphone App Control. This image shows the Cooper & Hunter Olivia series indoor units alongside a smartphone displaying the C&H Remote app interface, demonstrating remote control capabilities.

Refer to the C&H Remote app's specific instructions for pairing and advanced features.

6. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your mini split system. Always turn off the power supply to the unit before performing any maintenance.

- **Air Filter Cleaning:** The indoor unit's air filters should be cleaned regularly (e.g., every 2-4 weeks, depending on usage and air quality). Remove filters, wash with lukewarm water and mild detergent, rinse thoroughly, and allow to air dry completely before reinserting.
- **Outdoor Unit Cleaning:** Keep the outdoor condenser coil free of dirt, leaves, and other debris. Periodically clean the coil with a soft brush or vacuum. Ensure airflow is not obstructed.
- **Drainage Line Check:** Periodically check the condensate drainage lines for blockages or leaks.
- **Professional Servicing:** Schedule annual professional maintenance with a licensed HVAC technician to inspect refrigerant levels, electrical connections, and overall system health.

7. TROUBLESHOOTING

Before contacting customer support, review the following common issues and solutions:

Problem	Possible Cause	Solution
Unit does not turn on.	No power, remote control battery low, circuit breaker tripped.	Check power supply, replace remote batteries, reset circuit breaker.
Insufficient cooling/heating.	Dirty air filters, blocked outdoor unit, incorrect mode setting, low refrigerant.	Clean filters, clear obstructions from outdoor unit, verify mode, contact professional for refrigerant check.
Water leakage from indoor unit.	Blocked drainage hose, improper installation.	Check and clear drainage hose, contact professional for inspection.
Unusual noise.	Loose parts, fan obstruction, normal operating sounds (e.g., refrigerant flow).	Inspect for loose parts, clear obstructions, if persistent or loud, contact support.

For issues not listed or if problems persist, contact Cooper & Hunter customer support.

8. SPECIFICATIONS

Feature	Detail
Brand	Cooper & Hunter
Model Series	Cooper&Hunter Multi-Zone series
System Capacity	28,000 BTU (2.3 Tons)
Indoor Unit Capacities	Three (3) x 9,000 BTU
SEER2 Rating	24.6
Voltage	230 Volts
Noise Level (Indoor)	23.5 Decibels
Operating Temperature (Heating)	Down to -13°F (-25°C)
Special Features	Dehumidifier, Heating And Cooling Function, Inverter Compressor, Remote Controlled, WiFi Enabled
Refrigerant Type	R410A (Pre-charged in outdoor unit)
Item Weight	277 pounds (total system)
Product Dimensions (Outdoor Unit)	48 x 40 x 40 inches (approximate)

9. WARRANTY & SUPPORT

Cooper & Hunter provides warranty coverage for their products. For warranty to be valid, the system must be installed by a licensed HVAC professional. Please refer to the official Cooper & Hunter warranty documentation provided with your purchase for specific terms and conditions.

For technical assistance, troubleshooting, or warranty claims, please contact Cooper & Hunter's U.S.-based experienced technicians. Contact information can typically be found on the manufacturer's website or in your product packaging.

Online Resources:

- Visit the [Cooper & Hunter Store on Amazon](#) for additional product information and support.