

Della 1D3-TP+D912

DELLA 27K BTU 2-Zone Mini Split AC Heat Pump User Manual

Model: 1D3-TP+D912

1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your DELLA 27K BTU 2-Zone Mini Split AC Heat Pump system. Please read this manual thoroughly before operating the unit to ensure proper function and safety. Keep this manual for future reference.

The DELLA 27K BTU 2-Zone Mini Split AC Heat Pump is an energy-efficient system designed to provide heating and cooling for multiple rooms. It features a 24 SEER2 rating, operates on 208-230V, and includes two indoor units (9,000 BTU and 12,000 BTU) connected to a single outdoor condenser. The system is equipped with Wi-Fi connectivity and is compatible with smart home assistants like Alexa.



Image 1.1: Complete DELLA 27K BTU 2-Zone Mini Split AC Heat Pump system with all components.

2. SAFETY INFORMATION

Important Safety Instructions:

- **Professional Installation Required:** This system mandates professional installation. Attempting DIY installation can lead to serious injury, property damage, and void the warranty.
- **Electrical Safety:** Ensure the unit is connected to a dedicated 208-230V circuit with appropriate overcurrent protection (Maximum Fuse Size is 30A). All electrical work must comply with local and national electrical codes.
- **Refrigerant Handling:** The system uses R454B refrigerant. Handling of refrigerants should only be performed by certified technicians.
- **Clearance:** Maintain adequate clearance around both indoor and outdoor units for proper airflow and maintenance.
- **Children and Pets:** Keep children and pets away from the outdoor unit and ensure indoor units are installed out of reach.
- **Maintenance:** Disconnect power before performing any maintenance or cleaning.

3. PRODUCT OVERVIEW AND COMPONENTS

Your DELLA 2-Zone Mini Split AC Heat Pump system consists of the following main components:

- **Outdoor Condenser Unit:** The primary unit responsible for heat exchange.
- **Indoor Air Handler Units (2):** One 9,000 BTU unit and one 12,000 BTU unit, designed for individual room climate control.
- **Remote Controls (2):** For independent control of each indoor unit.
- **Refrigerant Line Sets (2):** Pre-charged 16ft copper pipes for connecting indoor and outdoor units.
- **Installation Kits:** Includes necessary accessories for mounting and connection.



Image 3.1: Exploded view of the DELLA 2-Zone Mini Split AC components.

4. SETUP AND INSTALLATION

Professional Installation is Mandatory:

The DELLA 2-Zone Mini Split AC Heat Pump system requires professional installation by a qualified HVAC technician. This ensures proper setup, adherence to safety standards, and optimal performance of the unit.

Attempting to install the unit yourself may result in damage, improper operation, and will void the product warranty.

Key Installation Considerations:

- **Location:** Indoor units should be placed to ensure even air distribution. The outdoor unit requires a stable, level surface with adequate airflow.
- **Line-Set Connection:** The system includes two 16ft copper pipes (standard size 1/4" & 3/8" outer dimension). Line-set vacuuming is required during installation to remove moisture and non-condensable gases.
- **Refrigerant Levels:** The system is pre-charged. However, any alteration of line-set length requires adjusting freon levels by a certified technician. The system uses R454B refrigerant.
- **Drainage:** Ensure proper drainage for condensate from the indoor units. The length for the drain pipe is 78.7 inches.
- **Electrical Wiring:** All electrical connections must be made by a licensed electrician according to local codes and the wiring diagram provided with the unit.

Make every room your comfort zone

Set each mini split to someone's personal comfort zone or leave it off and save \$\$\$\$.

50ft total line set
pre-charged



No extra refrigerant needed
Just install and enjoy!



Image 4.1: Illustration of multi-zone cooling coverage for different room sizes.

5. OPERATING INSTRUCTIONS

Your DELLA Mini Split AC system offers various modes and features for optimal comfort and energy efficiency.

5.1 Remote Control Operation

Each indoor unit is controlled by its dedicated remote. Familiarize yourself with the remote control functions:



Image 5.1: Remote control functions for your DELLA Mini Split AC.

- **On/Off:** Powers the unit on or off.
- **Switch Modes:** Cycles through operating modes: Auto, Cool, Heat, Dry, Fan Only.
- **Temp Up/Down:** Adjusts the desired temperature.
- **Fan Speed:** Selects fan speed (e.g., Low, Medium, High, Auto).
- **Vertical/Horizontal Swing:** Controls the direction of airflow.
- **ECO Mode:** Optimizes operation for energy saving.
- **Sleep Mode:** Adjusts temperature and fan speed for comfortable sleep and energy efficiency.
- **Timer Setting:** Programs the unit to turn on or off at specific times.
- **Turbo Function:** Provides rapid cooling or heating.
- **I Feel Mode:** The remote control senses the temperature around it and adjusts the unit's operation for

localized comfort.

5.2 Smart Features and App Control

The DELLA Mini Split AC system is equipped with Wi-Fi connectivity, allowing control via the Della+ app and integration with smart home systems.

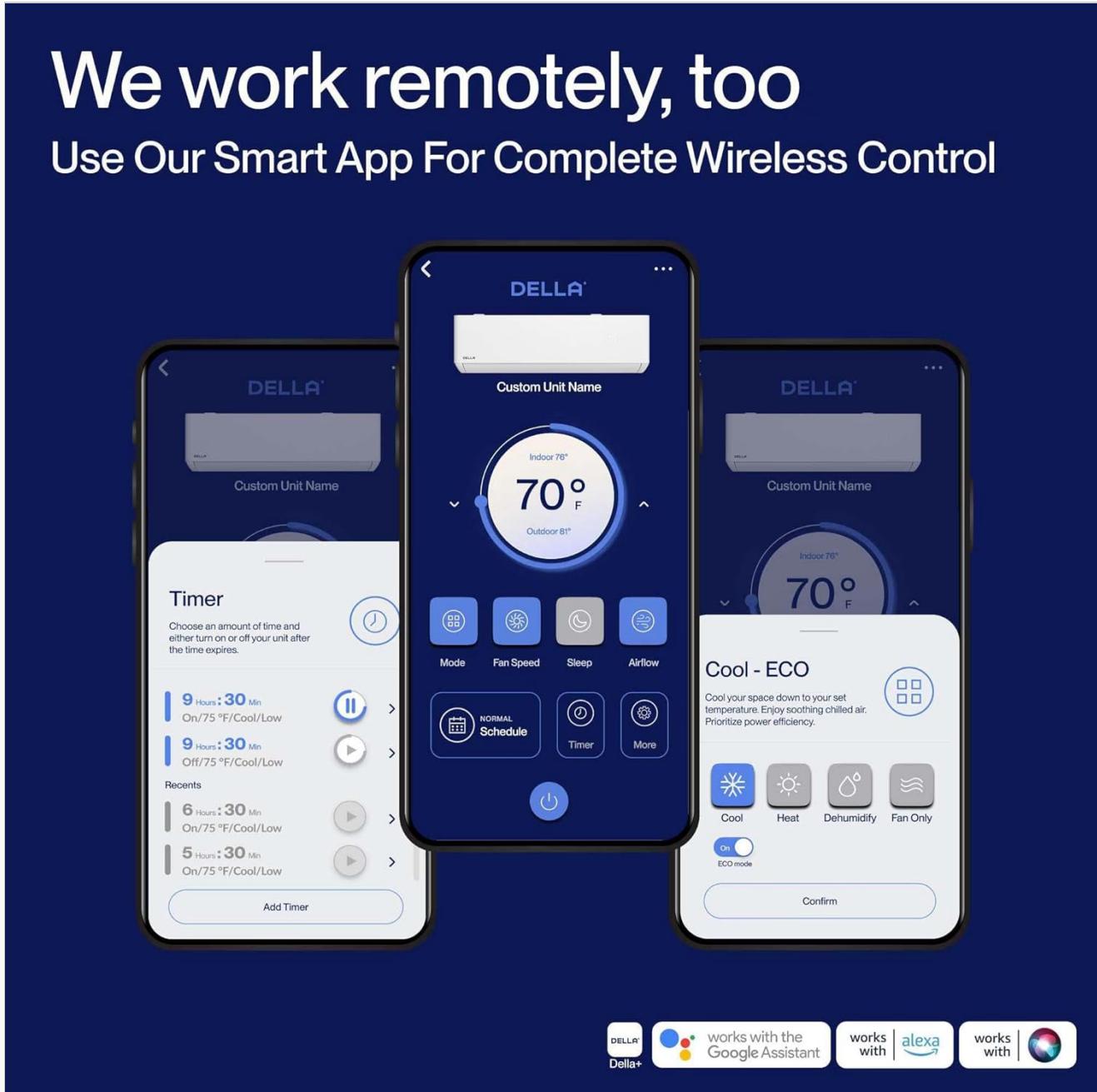


Image 5.2: Control your unit remotely using the Della+ Smart App.

- **Della+ App:** Download the free Della+ app to control your unit from anywhere. The app provides a user-friendly interface for setting modes, temperatures, fan speeds, and scheduling.
- **Smart Geo Location:** The Della+ app allows for automatic AC control based on your location, turning the unit on or off as you approach or leave your home.
- **Voice Control:** The system works with Alexa and Google Assistant, enabling voice commands for convenient operation.

6. MAINTENANCE

Regular maintenance ensures the longevity and efficient operation of your DELLA Mini Split AC system.

- **Air Filter Cleaning:** The indoor unit's air filters should be cleaned every 2-4 weeks, or more frequently depending on usage and air quality. Refer to the indoor unit's specific instructions for filter removal and cleaning.
- **Outdoor Unit Cleaning:** Keep the outdoor condenser coil free of dirt, leaves, and other debris. Periodically rinse the coil with a garden hose (ensure power is off).
- **Drain Line Check:** Ensure the condensate drain lines are clear and free of obstructions to prevent water leaks.
- **Professional Inspection:** It is recommended to have a qualified HVAC technician perform an annual inspection and tune-up to check refrigerant levels, electrical connections, and overall system health.
- **Frost Prevention:** The outdoor unit features bottom electric heating to help prevent frost buildup, speeding up defrosting and boosting efficiency in cold climates.

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 batteries low; Circuit breaker tripped.	Check power supply; Replace remote batteries; Reset circuit breaker.
Insufficient cooling/heating	Dirty air filters; Blocked outdoor unit; Incorrect mode/temperature setting; Low refrigerant.	Clean air filters; Clear obstructions from outdoor unit; Verify settings; Contact professional for refrigerant check.
Unusual noise	Loose parts; Obstruction in fan; Normal operating sounds (e.g., refrigerant flow).	Inspect for loose parts or obstructions; If noise persists or is abnormal, contact support.
Water leakage from indoor unit	Clogged drain line; Improper installation.	Clear drain line; Contact professional for inspection.

8. SPECIFICATIONS

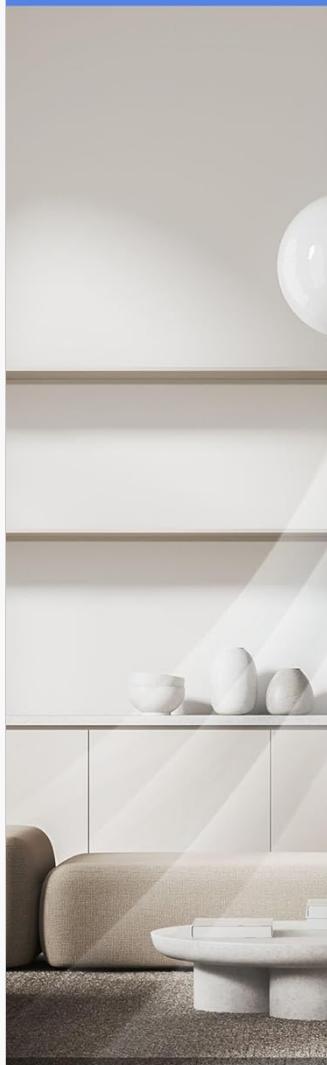
Feature	Detail
Model Number	1D3-TP+D912
System Type	2-Zone Multi Split AC Heat Pump
Outdoor Unit BTU	27,000 BTU/h
Indoor Unit 1 BTU	9,000 BTU/h
Indoor Unit 2 BTU	12,000 BTU/h
SEER2 Rating	24 SEER2
Voltage	208-230 Volts

Feature	Detail
Wattage	2020 watts
Refrigerant Type	R454B
Coverage Area	Up to 950 Sq.Ft (9K unit: 400 Sq.Ft, 12K unit: 550 Sq.Ft)
Noise Level	46 dBA (Ultra silent operation)
Operating Temperature Range	-13°F to 131°F
Special Features	Dehumidifier, Fast Cooling, Remote Control, WiFi Enabled, 4D Airflow, I Feel Mode, 24-hour Timer, Sleep Mode, Eco Energy Saving Mode, Turbo Function
Included Components	Multi-zone Air Conditioner, Manual, 2 x 16ft Copper Pipes, Installation Kits

24 SEER2

Cool more, lower energy usage

Powered by
MightyAir X



*Base on 2,000 hours compared to government SEER2 requirements.

9. WARRANTY AND SUPPORT

9.1 Warranty Information

Your DELLA Mini Split AC Heat Pump comes with a **Limited Lifetime Warranty**. This warranty covers manufacturing defects and ensures peace of mind regarding your investment. For specific terms and conditions, please refer to the warranty card included with your product or contact customer support.



Image 9.1: DELLA's commitment to lifetime coverage and support.

9.2 Customer Support

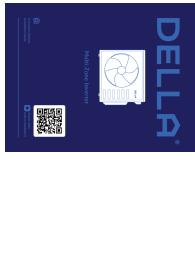
DELLA is committed to providing best-in-class customer support. If you have any questions, require assistance with installation, operation, or troubleshooting, please contact our support team:

- **Phone Support:** Available Monday to Friday, 6 AM - 4 PM PST.
- **Live Chat:** Available 24/7 for immediate assistance.

Please have your model number (1D3-TP+D912) and purchase date ready when contacting support.

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Related Documents - 1D3-TP+D912

 Operations Manual Learn how to use your DELLA 048-TL Series Air Conditioner.	<p><u>DELLA 048-TL Series Air Conditioner Operations Manual</u></p> <p>Comprehensive operations manual for DELLA 048-TL series air conditioners (models 048-TL-18K-MODU, 048-TL-27K-MODU, 048-TL-36K-MODU), covering safe operation, maintenance, troubleshooting, and Wi-Fi app connectivity.</p>
 Vario (TL) Multi-Zone Series Installation Manual Installation and Operation Guide	<p><u>Della Vario (TL) Multi-Zone Series Installation and Operation Guide</u></p> <p>Comprehensive instruction manual and installation guide for the Della Vario (TL) Multi-Zone Series air conditioning units. Covers safety precautions, installation steps, operation, maintenance, and troubleshooting.</p>
 NOTES: • This manual is for the Della Mini Compact Air Conditioner. Please refer to the Della Multi-Zone Inverter User's Manual for information on the Della Multi-Zone Inverter.	<p><u>Della Mini Compact Air Conditioner User's Manual</u></p> <p>User's manual for Della Mini Compact Air Conditioners (6000, 8000, 10000, 12000 BTU). Provides essential safety, installation, operation, maintenance, and troubleshooting guidance.</p>
 Service Manual Multi-Zone Inverter NOTES: • This manual is for the Della Multi-Zone Inverter. Please refer to the Della Mini Compact Air Conditioner User's Manual for information on the Della Mini Compact Air Conditioner.	<p><u>DELLA Multi-Zone Inverter Service Manual</u></p> <p>This service manual provides detailed technical information, troubleshooting guides, and maintenance procedures for DELLA Multi-Zone Inverter air conditioning systems.</p>
 NOTES: • This manual is for the Della Multi-Zone Inverter Air Conditioner. Please refer to the Della Mini Compact Air Conditioner User's Manual for information on the Della Mini Compact Air Conditioner.	<p><u>DELLA Multi-Zone Inverter Air Conditioner Installation Manual & Guide</u></p> <p>This installation manual provides comprehensive guidance for DELLA Multi-Zone Inverter air conditioning systems, covering safety, parts, specifications, and step-by-step installation procedures for optimal performance.</p>



[Della Optima \(TP\) Series Ultra Heat Installation and Operation Guide](#)

Comprehensive installation and operation manual for the Della Optima (TP) Series Ultra Heat mini-split air conditioning system. Covers safety, parts, installation steps, operation, maintenance, and troubleshooting.