



[Manuals.plus](#) /

› [Della](#) /

› DELLA 27K BTU Dual Zone Mini Split Air Conditioner & Heat Pump User Manual

Della 27K+D1818

DELLA 27K BTU Dual Zone Mini Split Air Conditioner & Heat Pump

INSTRUCTION MANUAL

Model: 27K+D1818

Introduction

This manual provides essential information for the proper installation, operation, and maintenance of your DELLA 27K BTU Dual Zone Mini Split Air Conditioner & Heat Pump. Please read this manual thoroughly before installation and use to ensure optimal performance and safety. This unit is designed to provide efficient cooling and heating for multiple rooms, covering up to 2000 Sq. Ft. with its 18,000 BTU + 18,000 BTU indoor units.

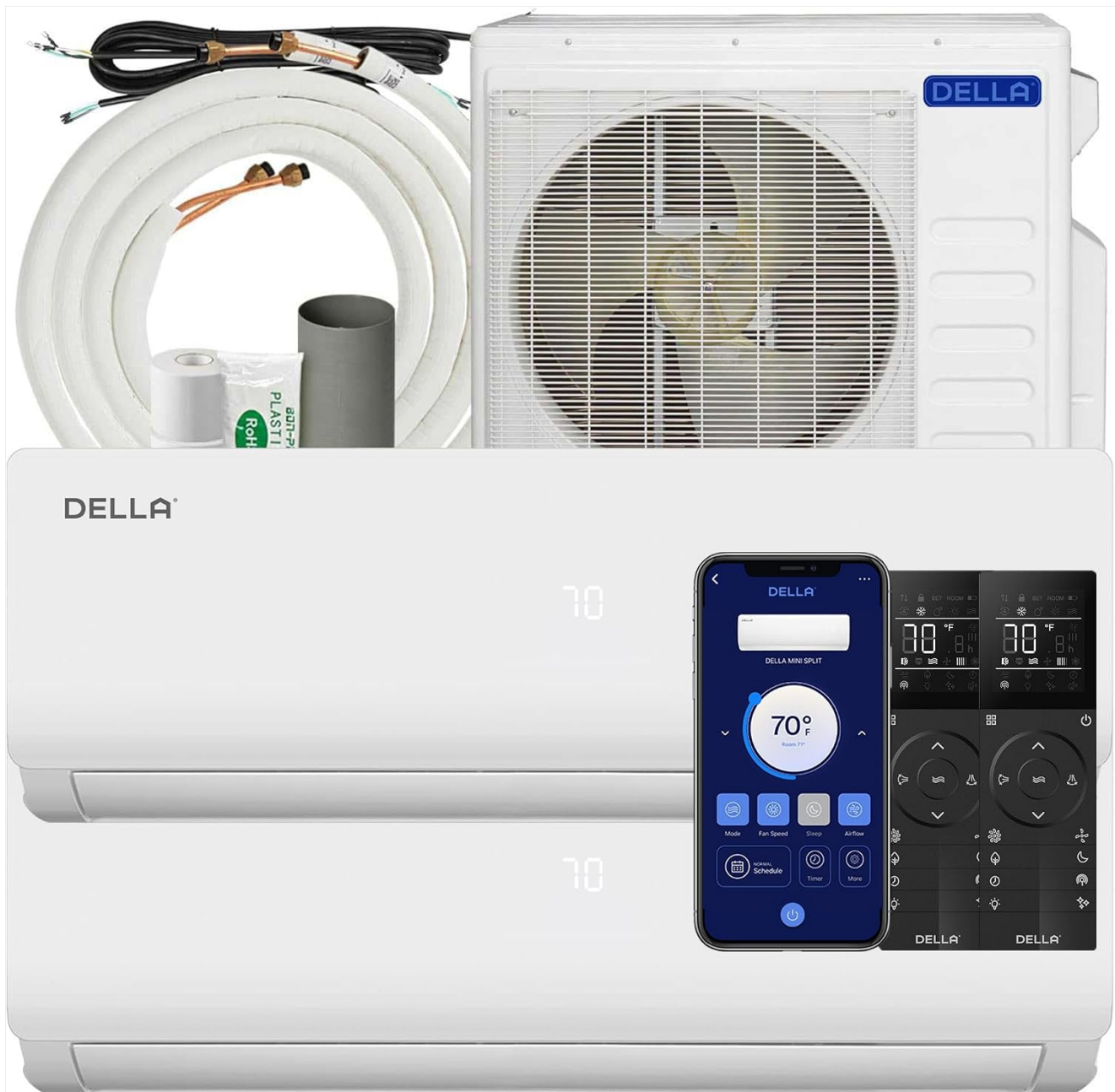


Figure 1: DELLA 27K BTU Dual Zone Mini Split Air Conditioner and Heat Pump components.

Safety Information

Always adhere to local electrical codes and regulations. Professional installation is highly recommended for this system. Failure to follow these instructions may result in property damage, personal injury, or death.

- **Electrical Safety:** Ensure the power supply matches the unit's requirements (208-230V). Use a dedicated circuit with appropriate overcurrent protection. All wiring must be securely connected and grounded.
- **Refrigerant Handling:** This unit contains refrigerant. Only qualified personnel should handle refrigerant and perform vacuuming procedures. Improper handling can lead to leaks and system damage.
- **Installation Location:** Choose a sturdy wall capable of supporting the indoor unit's weight without vibration. Ensure proper clearances around both indoor and outdoor units for optimal airflow and performance.
- **Proposition 65 Warning:** This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Product Overview

The DELLA 27K BTU Dual Zone Mini Split system offers advanced climate control with high energy efficiency. It features two indoor air handlers and one outdoor condenser, allowing for individual temperature control in separate rooms.

- **Energy Efficient:** 19 SEER2 rating with DC Inverter technology for up to 30% power savings.
- **Multi-Zone Comfort:** Two 18,000 BTU indoor units provide cooling and heating for up to 2000 Sq. Ft. total.
- **Smart Features:** WiFi enabled, compatible with Alexa, I Feel mode, 24-hour timer, sleep mode, ECO energy saving mode, multiple fan speeds, turbo function, heating, cooling, and dry modes.
- **Quiet Operation:** Operates at an ultra-silent 50 dBA.



Figure 2: Key components of the DELLA Mini Split system.

Setup and Installation

Proper installation is crucial for the longevity and efficiency of your mini split system. This section outlines key considerations and steps.

Installation Location Considerations

- **Indoor Unit:** Must be at least 6 inches below the ceiling for proper airflow. Ensure the wall is sturdy enough to support the unit's weight without vibration. Keep the inlet and outlet clear of obstructions. Install at least 10 feet (3 meters) away from TVs or radio appliances to prevent interference.
- **Outdoor Unit:** Must be spaced away from the wall. Ensure no plants or objects are within 3 feet of the appliance to allow for proper air circulation.

Refer to the user manual's "Installation Preview Section" for specific clearances for your model.

Handling Refrigerant Pipes

Handle refrigerant pipes with care. It is highly recommended to use a bending tool. If bending by hand, do so very slowly to prevent kinking or damage. Damaged pipes can lead to refrigerant leaks and system malfunction.

Bundling the Line Set

After installing the indoor unit, ensure the line set is angled downward and the drain pipe is pointed straight down. This allows proper liquid flow and prevents leaks.

Vacuum Pumping the Refrigerant Circuit

Vacuumping the lines is a critical step to remove air and moisture for maximum efficiency. You will need a vacuum pump, line set, gauge, and valve core removal tool.

- Vacuum for at least 15 minutes per line set, depending on your pump's strength.
- For multi-zone systems, vacuum each line set separately.
- Use a micron gauge to reach 500 microns. If using a manifold gauge, aim for -30 PSI.
- Add refrigerant if your line set exceeds 25 feet.

Electrical Connection

Ensure a safe electrical connection. Verify your home's voltage (110V or 220V) and select the appropriate breaker size and UL-listed wire for the mini split system.

Installation Videos

Your browser does not support the video tag.

Video 1: 5 Urgent Steps Need to Know Before Installing Della Mini Split. This video provides crucial pre-installation tips to ensure a smooth setup process.

Your browser does not support the video tag.

Video 2: Install Your DELLA Mini Split Unit. A detailed guide on the installation process for your DELLA Mini Split.

Your browser does not support the video tag.

Video 3: How to wire your Della mini split unit. This video demonstrates the correct wiring procedures for your unit.

Operating Instructions

Your DELLA Mini Split system can be controlled via the included remote control or the Della+ app for smart functionalities.

Remote Control Functions

The remote control allows you to access various modes and settings for your comfort.

Stay Cool ! Award-Winning Control

* Please note: Depending on inventory, some BTU indoor units may include different remotes or accessories.



Figure 3: DELLA Mini Split Remote Control Overview.

- **Modes:** Switch between Cool, Heat, Dry, Fan Only, and Auto modes.
- **Fan Speed:** Adjust fan speed for desired airflow.
- **Swing:** Control vertical and horizontal airflow direction.
- **Timer:** Set a 24-hour timer for automatic on/off.
- **Sleep Mode:** Optimizes temperature and fan speed for comfortable sleep.
- **ECO Mode:** Energy-saving operation.
- **Turbo Function:** Provides rapid cooling or heating.

Della+ App and Smart Features

Control your unit remotely and access advanced features using the Della+ app, compatible with Alexa and Google Assistant.

We work remotely, too.

Use Our Smart App For Complete Wireless Control.



Figure 4: Della+ App Interface.

- **Remote Control:** Adjust settings from anywhere using your smartphone.
- **Smart Geo Location:** Automatically turns the AC unit on or off based on your location.
- **Voice Control:** Seamlessly integrates with Alexa and Google Assistant for hands-free operation.
- **Scheduling:** Plan your week in advance by setting schedules for turning the unit on/off and customizing modes.

Your browser does not support the video tag.

Video 4: Della Mini split app 3.0. Explore the features and functionality of the Della+ mobile application.

Your browser does not support the video tag.

Video 5: Geo Location Function. Learn how to utilize the smart geo-location feature for automated climate control.

Your browser does not support the video tag.

Video 6: DELLA Mini Split Air Conditioner. A general overview of the DELLA Mini Split Air Conditioner's features and benefits.

Maintenance

Regular maintenance ensures the efficiency and longevity of your DELLA Mini Split system.

- **Filter Cleaning:** Clean the air filters regularly (every 2-4 weeks, depending on usage) to maintain airflow and efficiency. Refer to the full user manual for detailed instructions on filter removal and cleaning.
- **Outdoor Unit Cleaning:** Keep the outdoor unit clear of debris, leaves, and other obstructions. Periodically clean the coils with a soft brush or vacuum.
- **Drainage Check:** Ensure the drain pipe is free of blockages to prevent water overflow from the indoor unit.
- **Professional Inspection:** It is recommended to have a qualified HVAC technician inspect and service your unit annually to ensure proper operation and address any potential issues.

Troubleshooting

If you encounter issues with your DELLA Mini Split, refer to the following common troubleshooting tips. For complex problems or error codes, contact customer support.

Problem	Possible Cause	Solution
Unit does not turn on	No power, circuit breaker tripped, remote control batteries low.	Check power supply, reset breaker, replace remote batteries.
Insufficient cooling/heating	Dirty air filters, blocked outdoor unit, incorrect mode setting, low refrigerant.	Clean filters, clear obstructions from outdoor unit, select correct mode, contact technician for refrigerant check.
Water leaking from indoor unit	Clogged drain pipe, improper installation angle.	Clear drain pipe, ensure proper downward angle of line set.
Unusual noises or vibrations	Loose parts, unit not level, foreign objects in fan.	Check for loose components, ensure unit is level, inspect for obstructions.
Error Codes (e.g., E9, E4)	System malfunction, sensor issue, refrigerant pressure issue.	Note the error code and contact DELLA customer support for diagnosis and resolution.

Specifications

Feature	Detail
Brand	Della
Model Number	27K+D1818
Cooling/Heating Capacity	27,000 BTU (Dual Zone 18,000 BTU + 18,000 BTU)
SEER2 Rating	19
Voltage	208-230V
Wattage	5240 Watts
Noise Level	50 dB

Feature	Detail
Coverage Area	Up to 2000 Sq. Ft. (1000 Sq. Ft. per indoor unit)
Special Features	Remote Controlled, Alexa and WiFi Enabled, Fast Cooling and Heating, Dehumidifier
Item Weight	178.7 pounds
Product Dimensions	39.76 x 12.4 x 8.66 inches

Warranty and Support

DELLA offers unmatched support and a limited lifetime warranty to give you peace of mind.

- **Limited Lifetime Warranty:** Provides comprehensive coverage for your product.
- **Customer Support:** For any questions, technical assistance, or warranty claims, please contact DELLA directly.
- **Contact Information:** Refer to your product packaging or the official DELLA website for the most current contact details (phone support M-F PST, LiveChat 24/7).