

Della 1D2-TL+D99

DELLA 20K BTU Dual Zone Mini Split AC Heat Pump Instruction Manual

Model: 1D2-TL+D99 | Brand: Della

1. SAFETY INFORMATION

Professional Installation Required: This DELLA Mini Split AC system mandates professional installation. It is not designed for DIY installation. Improper installation can lead to serious injury, property damage, or void the warranty.

Always ensure all power connections are turned off before performing any installation or maintenance procedures.

Refer to local electrical codes and regulations for proper wiring and safety standards.

2. PRODUCT OVERVIEW

The DELLA 20K BTU Dual Zone Mini Split AC Heat Pump (Model 1D2-TL+D99) is an energy-efficient, multi-zone ductless system designed to provide personalized climate control for up to 800 sq. ft. (400 sq. ft. per indoor unit). It features Wi-Fi connectivity and compatibility with smart home assistants like Alexa.

Key Features:

- **Energy Efficient:** 20 SEER2 rating, DC Inverter technology for up to 30% power savings.
- **Dual Zone Comfort:** Two 9,000 BTU indoor air handlers with separate controllers for individual room temperature control.
- **Wide Coverage:** Cools and heats up to 800 sq. ft. (400 sq. ft. per indoor unit).
- **Heat Pump Functionality:** Operates effectively in temperatures as low as -13°F (-25°C).
- **Smart Control:** Wi-Fi enabled, compatible with Alexa and Google Assistant via the Della+ app.
- **Quiet Operation:** Ultra-silent at only 29 dBa.
- **Multiple Modes:** 4D air flow (up-down, left-right), I Feel mode, 24-hour timer, sleep mode, eco energy

saving mode, multiple fan speeds, turbo function, heating, cooling, and dry mode for dehumidifying.

- **Environmentally Friendly:** Uses R454B refrigerant.

Product Components:



Image Description: A detailed diagram illustrating the various components included with the Della Mini Split AC system. These include the indoor unit, outdoor unit, refrigerant pipes, drain lines, remote control, rubber feet, insulation foam, mounting plate, wall sleeve, plasticine putty, anchors, wall cap, plastic wrap, communication cable, and bracket template.

1. Indoor Unit
2. Outdoor Unit
3. Refrigerant Pipe
4. Drain Lines
5. Remote Control
6. Rubber Feet
7. Insulation Foam
8. Mounting Plate
9. Wall Cap
10. Wall Sleeve
11. Plasticine Putty

12. Screws
13. Anchors
14. Plastic Wrap
15. Communication Cable
16. Bracket Template

3. SETUP & INSTALLATION

Proper installation is crucial for the optimal performance and longevity of your DELLA Mini Split AC. It is strongly recommended that installation be performed by a qualified HVAC professional.

Pre-Installation Considerations:

Before beginning installation, review these critical steps to ensure proper setup:

Your browser does not support the video tag.

Video Description: This video outlines 5 urgent steps to consider before installing your Della Mini Split AC. It covers critical aspects like choosing the correct installation location for both indoor and outdoor units, proper handling of refrigerant pipes to prevent damage, correctly bundling the line set for efficient drainage, the importance of vacuum pumping the refrigerant circuit to remove air and moisture, and ensuring a safe electrical connection with the correct voltage and UL-listed wiring.

- **Installation Location:** The indoor unit must be at least 6 inches below the ceiling for proper airflow. Verify proper clearances in the user manual's installation preview section. Ensure the wall is sturdy enough to hold the unit's weight without vibration. Keep inlet and outlet clear of obstructions.
- **Refrigerant Pipes:** Handle with care. Use a bending tool if possible, or bend slowly to avoid damage. Damaged pipes can lead to leaks.
- **Line Set Bundling:** After installing the indoor unit, ensure the line set is angled downward and the drain pipe points straight down to allow proper liquid flow and prevent leaks.
- **Vacuum Pumping:** This is a critical step to remove air and moisture for maximum efficiency. Vacuum for at least 15 minutes per line set. For multi-zone systems, vacuum each line set separately. Aim for 500 microns with a micron gauge or -30 PSI with a manifold gauge.
- **Electrical Connection:** Always verify your connection for safety. Check your home's voltage (110V or 220V) and select the appropriate breaker size and UL-listed wire for the mini split system.

Installation Steps:

Follow these general steps for installing your Della Mini Split unit. For detailed instructions, consult the full user manual and consider professional assistance.

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Video Description: This video provides a step-by-step guide on how to install a Della Mini Split AC unit. It covers marking and drilling holes using a template, mounting the indoor unit bracket, routing line sets and electrical wiring, connecting refrigerant lines, tightening connections with a torque wrench, and performing the vacuum process. The video concludes with activating the unit and checking for proper operation.

Electrical Wiring:

Ensure all electrical connections are made correctly and safely. Refer to the video below for guidance.

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Video Description: This video demonstrates the correct procedure for wiring your Della Mini Split unit. It emphasizes turning off all power connections before starting, removing electrical compartment covers, and connecting numbered wires (black, white, yellow) to their corresponding terminals on both the indoor and outdoor units, ensuring proper grounding (green to green).

4. OPERATING INSTRUCTIONS

Your DELLA Mini Split AC offers various modes and control options for optimal comfort.

Remote Control:

The included remote control allows you to easily adjust settings. Familiarize yourself with its functions:





Image Description: A close-up image of the Della Mini Split AC remote control, highlighting various buttons and their functions such as On/Off, Temperature Up/Down, Fan Speed, Vertical Swing, Horizontal Swing, Turbo On/Off, ECO Mode, Timer Setting, Display Light, Quiet Mode, Sleep Mode, Vicinity Sensor, and PureClean.

Smart App & Voice Control:


Control your unit remotely using the Della+ app on your smartphone or through voice commands with Alexa or Google Assistant.

Lifetime Coverage

Unmatched Support Gives You Peace of Mind



Best In-Class



No additional costs

Image Description: A smartphone displaying the Della+ app interface, showing various control options for the AC unit including mode selection, fan speed, sleep mode, and airflow adjustments. The image also indicates compatibility with Google Assistant and Alexa.

The Della+ app allows for advanced features like Geo Location, which automatically adjusts your AC based on your proximity to home.

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Video Description: This video explains how to set up and customize the Geo Location feature in the Della+ app. It demonstrates how to define a preset location on a map and configure the AC unit to automatically turn on or off when you arrive at or leave that location, enhancing convenience and energy efficiency.

Operating Modes:

- **Cool Mode:** Provides cooling to your desired temperature.
- **Heat Mode:** Provides heating, effective down to -13°F (-25°C).
- **Dry Mode:** Dehumidifies the air.
- **Auto Mode:** Automatically selects cooling or heating based on the set temperature.
- **ECO Mode:** Optimizes energy consumption for savings.
- **Sleep Mode:** Adjusts temperature for comfortable sleep at a quiet 29 dBa.
- **Turbo Function:** Provides rapid cooling or heating.
- **4D Air Flow:** Adjusts airflow direction both horizontally and vertically.

5. MAINTENANCE

Regular maintenance ensures efficient operation and extends the lifespan of your DELLA Mini Split AC. Always disconnect power before performing any maintenance.

- **Filter Cleaning:** Clean the air filters regularly (e.g., every 2-4 weeks, depending on usage) to maintain airflow and efficiency. Refer to the user manual for specific filter removal and cleaning instructions.
- **Outdoor Unit Cleaning:** Keep the outdoor condenser unit clear of debris, leaves, and other obstructions to ensure proper airflow and heat exchange.
- **Professional Servicing:** Schedule annual professional maintenance to check refrigerant levels, clean coils, and inspect all components.

6. TROUBLESHOOTING

If you encounter issues with your DELLA Mini Split AC, refer to the following common troubleshooting tips. For complex problems, contact professional support.

- **Unit Not Turning On:** Check power supply, circuit breaker, and ensure the remote control batteries are functional.
- **Insufficient Cooling/Heating:** Verify the set temperature, ensure air filters are clean, and check for any obstructions to airflow. Ensure windows and doors are closed.
- **Unusual Noises:** Minor noises during operation are normal. If loud or unusual noises occur, contact a professional.
- **Water Leakage:** Check the drain hose for blockages or improper angling. Ensure the indoor unit is properly leveled.
- **Error Codes:** Refer to the specific error code section in your full user manual for detailed explanations and solutions.

7. SPECIFICATIONS

Feature	Detail
Brand	Della
Model Number	1D2-TL+D99
Capacity	20,000 BTU (Dual Zone: 9,000 BTU + 9,000 BTU)
Cooling Power	9,000 British Thermal Units (per indoor unit)
SEER2 Rating	20 SEER2
Voltage	208-230V
Refrigerant	R-454B
Noise Level	29 dBa (Indoor Unit)
Coverage Area	Up to 800 Sq. Ft. (400 Sq. Ft. per indoor unit)
Heat Pump Operation	Down to -13°F (-25°C)
Control Method	App, Remote, Voice (Alexa, Google Assistant)
Product Dimensions (Indoor)	8.07"D x 31.92"W x 11.49"H
Core Material	Copper
Maximum Fuse Size	25A

8. WARRANTY & SUPPORT

DELLA offers best-in-class support and lifetime coverage for your product.

- **Warranty:** Limited Warranty.
- **Customer Support:** For any questions or technical assistance, please contact Della customer support.
- **In-house Technicians:** Available Monday to Friday.
- **Live Chat:** 24/7 support available.