

Della 1D4-TL+D1224

DELLA 35K BTU Dual Zone Mini Split Air Conditioner Heat Pump (Model 1D4-TL+D1224) Instruction Manual

Model: 1D4-TL+D1224 | Brand: Della

1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your DELLA 35K BTU Dual Zone Mini Split Air Conditioner Heat Pump. This unit offers energy-efficient cooling and heating for up to 2050 sq. ft., featuring 19 SEER2, Wi-Fi, and Alexa compatibility. Please read this manual thoroughly before installation and operation to ensure proper use and safety.

2. SAFETY INFORMATION

Important Safety Instructions:

- This system mandates professional installation. It is not a DIY mini split AC.
- Ensure all power sources are turned off before connecting any wires or performing maintenance.
- Line-set vacuuming is required during installation. Any alteration of line-set length requires adjusting freon levels.
- Always use appropriate tools and follow local electrical and building codes.
- Do not attempt to repair or service the unit yourself. Contact qualified service personnel.

3. PACKAGE CONTENTS

Your DELLA Dual Zone Mini Split Air Conditioner package includes the following components:

- 1 x Outdoor Condenser Unit (35,000 BTU)
- 2 x Indoor Air Handlers (12,000 BTU and 24,000 BTU)
- 2 x Remote Controls (one for each indoor unit)
- 2 x 16ft Copper Pipes (1/4"+1/2" and 1/4"+3/8")
- 2 x Installation Kits
- Drain Pipe (78.7" length)
- Communication Cable
- Mounting Plate
- Rubber Feet

- Insulation Foam
- Wall Sleeve
- Plasticine Putty
- Screws and Anchors
- Bracket Template



Figure 1: Overview of DELLA Dual Zone Mini Split Air Conditioner components.



Figure 2: Detailed breakdown of DELLA Mini Split components and installation accessories.

4. SETUP AND INSTALLATION

Professional installation is mandatory for this system. It is not designed for DIY installation.

- 1. Prepare Mounting Location:** Use the provided template to mark locations for the lineset wall hole and the mini split bracket.
- 2. Install Indoor Unit Bracket:** Securely attach the mini split bracket to the wall using the provided screws. Use a leveler to ensure correct alignment.
- 3. Route Lineset and Electricals:** Route the lineset, drain hose, and electrical wiring through the wall opening.
- 4. Mount Indoor Unit:** Securely mount the indoor mini split unit onto the bracket.
- 5. Organize Linesets:** Tape the drain hose and linesets together for a neat and organized installation. Use zip ties to secure electrical wires around the taped linesets and drain hose.
- 6. Position Outdoor Condenser:** Place the outdoor condenser unit in its designated location.
- 7. Connect Linesets:** Connect the unit lineset to the condenser lineset and tighten firmly. If available, use a digital

torque wrench to ensure proper tightening.

8. **Electrical Connections:** Ensure all power sources are turned off. Remove the electrical compartment cover. Connect the numbered wires from the indoor unit to the corresponding numbered terminals on the outdoor condenser's electrical block. Connect the ground wire (green to green). Connect the power cables (black to 'N', red to 'L') to the condenser.
9. **Vacuumping the System:** Ensure you have appropriate vacuum equipment. Connect the hose from the outdoor condenser unit to the gauge, and the hose from the vacuum to the gauge. Open valves on the gauge and turn the vacuum on. Monitor the micron reading closely and close valves once it reaches 350. Turn off the vacuum pump.
10. **Activate Refrigerant Flow:** Restore power to the outlet. Turn the mini split unit on and set it to the lowest cold setting. Allow a few minutes for the outdoor condenser fan to start. Use a service wrench to gradually open the high side (top valve). Monitor the gauge as numbers will drop into the negative range. After opening the high side valve, quickly open the low side (bottom valve). The gauge readings will increase, which is expected.

Your browser does not support the video tag.

Video 1: Step-by-step guide on how to install your DELLA Mini Split Unit. This video covers marking, mounting, routing linesets, and initial connections.

Your browser does not support the video tag.

Video 2: Detailed instructions on how to correctly wire your DELLA Mini Split Unit, ensuring proper electrical connections for safe operation.

5. OPERATING INSTRUCTIONS

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

5.1 Remote Control Functions

The included remote controls allow you to manage your indoor units individually. Key functions include:

- **On/Off:** Power the unit on or off.
- **Mode Selection:** Choose between Heating, Cooling, Dry (dehumidifying), Fan Only, and Auto modes.
- **Temperature Adjustment:** Set your desired temperature (60-90°F range).
- **Fan Speed:** Adjust fan speed (multiple settings available).
- **4D Airflow:** Control vertical and horizontal swing for even air distribution.
- **Timer Function:** Set specific times for the unit to turn on or off.
- **Sleep Mode:** Optimizes temperature and fan speed for comfortable sleep.
- **ECO Energy Saving Mode:** Reduces energy consumption.
- **Turbo Function:** Provides rapid cooling or heating.
- **I Feel Mode:** Adjusts temperature based on the remote's location for personalized comfort.

Stay Cool ! Award-Winning Control



Figure 3: DELLA Mini Split Remote Control and its functions.

5.2 Smart Control with Della+ App (Wi-Fi & Alexa)

Control your DELLA Mini Split unit remotely using the free Della+ app, compatible with Wi-Fi and Alexa. This allows for advanced scheduling, mode selection, and geo-location features.

- **Remote Access:** Control your unit from anywhere with an internet connection.
- **Scheduling:** Set custom schedules for your unit to turn on/off or change modes.
- **Geo-Location Function:** Automatically adjust AC settings based on your proximity to your home.
- **Voice Control:** Integrate with Alexa for hands-free temperature adjustments.



Figure 4: Della+ App interface for smart control.

Your browser does not support the video tag.

Video 3: Tutorial on setting up and customizing Geo Location features within the Della+ App for automated climate control.

Your browser does not support the video tag.

Video 4: Overview of the Della Mini Split App 3.0, showcasing its user interface and various control options.

6. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your DELLA Mini Split unit.

- **Filter Cleaning:** Regularly clean or replace air filters in the indoor units to maintain airflow and efficiency.
- **Outdoor Unit Cleaning:** Keep the outdoor condenser unit free from debris, leaves, and obstructions to ensure proper heat exchange.
- **Drain Line Check:** Periodically check the drain line for blockages to prevent water leakage.
- **Professional Inspection:** Schedule annual professional inspections to check refrigerant levels, electrical connections, and overall system health.

7. TROUBLESHOOTING

If you encounter issues with your DELLA Mini Split unit, refer to the following common troubleshooting tips:

- **Unit Not Turning On:** Check power supply, circuit breaker, and ensure the remote control batteries are functional.
- **Insufficient Cooling/Heating:** Verify temperature settings, clean air filters, and ensure no obstructions around indoor/outdoor units.
- **Unusual Noises:** Minor operational noises are normal. Excessive or unusual noises may indicate a problem; contact professional service.
- **Error Codes:** If an error code appears on the display (e.g., "EU code" as mentioned by some users), consult the full user manual or contact customer support for specific diagnostic steps.
- **Wi-Fi/Alexa Connectivity Issues:** Ensure your Wi-Fi network is stable and the Della+ app is updated. Re-pair the device if necessary.

8. SPECIFICATIONS

Feature	Detail
Model Number	1D4-TL+D1224
BTU Capacity	35,000 BTU/h (Dual Zone: 12,000 BTU + 24,000 BTU)
SEER2 Rating	19 SEER2

Feature	Detail
Voltage	208-230V
Coverage Area	Up to 2050 Sq. Ft. (550 Sq. Ft. for 12K unit, 1500 Sq. Ft. for 24K unit)
Operating Temperature (Heating)	Down to -13°F (-25°C)
Refrigerant Type	R454B (environmentally friendly)
Noise Level (Indoor)	36 dBa (ultra silent)
Special Features	4D Airflow, I Feel Mode, 24-hour Timer, Sleep Mode, ECO Mode, Multiple Fan Speeds, Turbo Function, Dehumidifier, Remote Controlled, Alexa & Wi-Fi Compatible
Maximum Fuse Size	35A
Product Dimensions	8.07"D x 31.92"W x 11.49"H (Indoor Unit)
Item Weight	224 pounds (total system)
Certifications	ETL Listed, AHRI Certified

Make every room your comfort zone

Set each mini split to someone's personal comfort zone or leave it off and save \$\$\$\$. Better for your wallet & the earth.

50ft total line set
pre-charged



No extra refrigerant needed
Just install and enjoy!

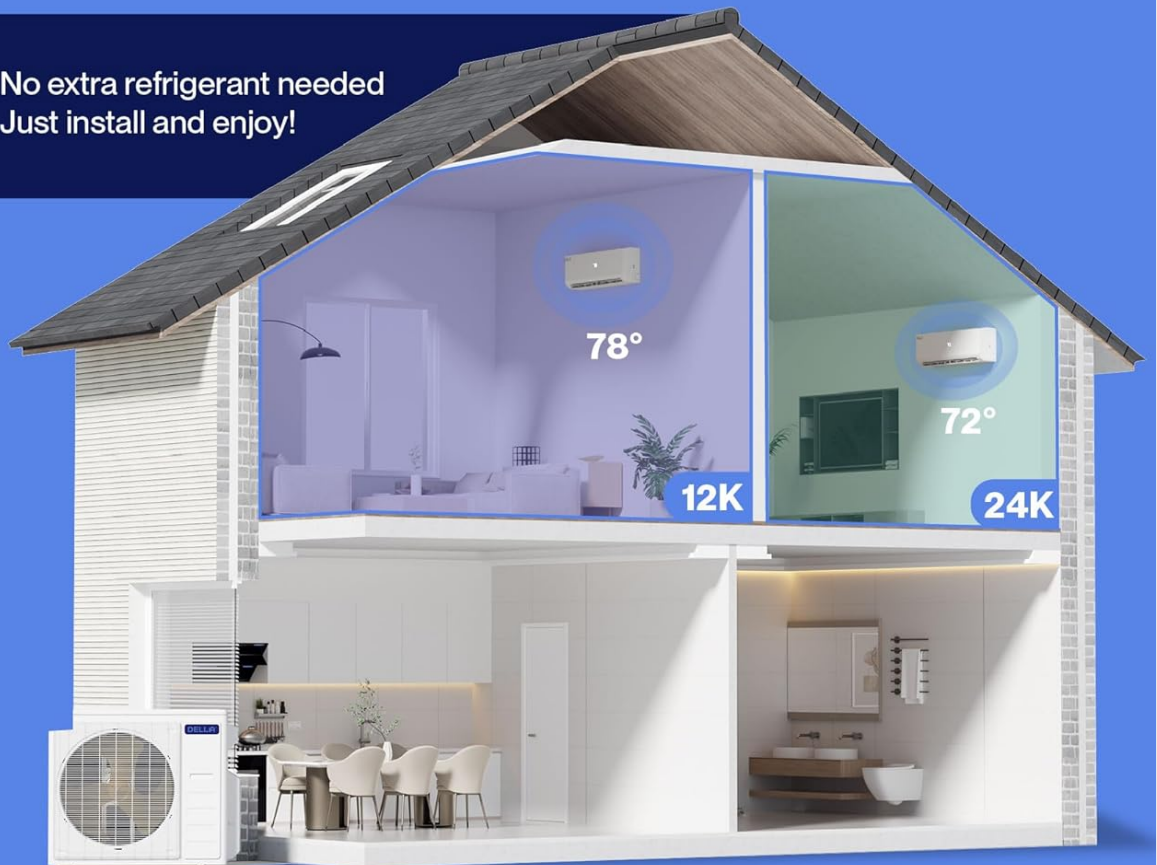


Figure 5: DELLA Mini Split Outdoor Condenser Unit.

19 SEER2

Powered by
MightyAir X

Cool more, lower energy usage



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

Figure 6: Energy Efficiency Comparison (19 SEER2).

9. WARRANTY AND SUPPORT

DELLA offers unmatched support and warranty coverage for your peace of mind.

- **Limited Lifetime Warranty:** Enjoy best-in-class warranty coverage with no additional costs.
- **Customer Support:** 24/7 live chat support is available. Phone support is available from 6 AM to 4 PM PST.

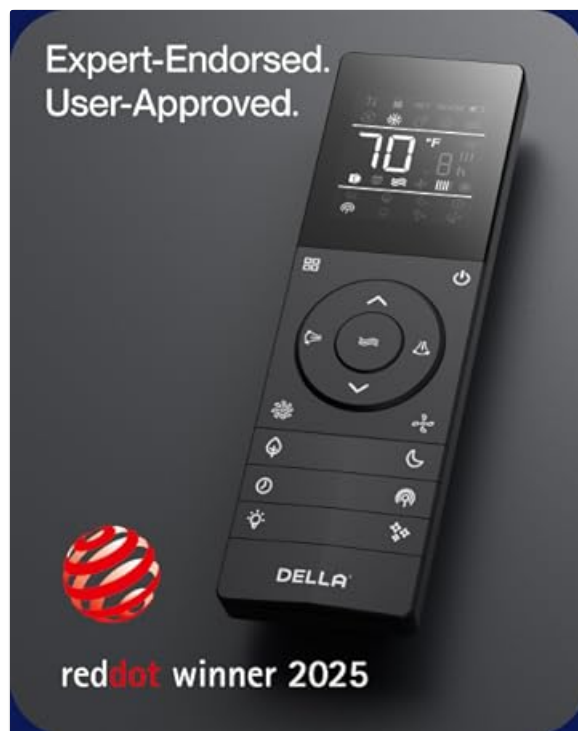



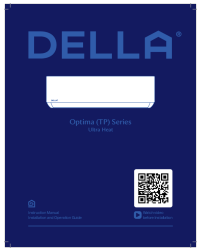


Figure 7: DELLA Lifetime Coverage and Customer Support.

Related Documents - 1D4-TL+D1224

	<p>Della Mini Compact Air Conditioner User's Manual</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>
	<p>DELLA Mini-Split Air Conditioner User's Manual</p> <p>Comprehensive user's manual for DELLA Mini-Split Air Conditioners, covering product specifications, safety precautions, operation, installation, maintenance, and troubleshooting for models 048-IF-11K1V-17S, 048-IF-11K2V-17S, 048-IF-16K2V-17S, and 048-IF-22K2V-17S.</p>
	<p>DELLA Motto (JA) Series Mini-Split Air Conditioner Installation and Operation Manual</p> <p>Get essential guidance for installing and operating your DELLA Motto (JA) Series mini-split air conditioner. This manual covers pre-installation checks, safety protocols, refrigerant handling, electrical setup, and maintenance for optimal home comfort.</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.



[DELLA Serena \(M\) Series Air Conditioner Installation and Operation Manual](#)
This comprehensive manual from DELLA provides detailed instructions for installing and operating the Serena (M) Series air conditioning system, covering safety, setup, functions, and troubleshooting.



[DELLA Motto\(JA\)/Umbra\(JPB\)/Serena\(M\) Series Service Manual](#)
Comprehensive service manual for DELLA Motto(JA), Umbra(JPB), and Serena(M) Series air conditioners, providing detailed troubleshooting guides, error code explanations, and removal procedures for maintenance personnel.