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## Della 048-TL-12K2V-19S-I+O

# DELLA Vario Series 12000 BTU Mini Split Air Conditioner User Manual

Model: 048-TL-12K2V-19S-I+O

## 1. INTRODUCTION

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This user manual provides detailed instructions for the installation, operation, maintenance, and troubleshooting of your DELLA Vario Series 12000 BTU Mini Split Air Conditioner. Please read this manual thoroughly before operating the unit to ensure safe and efficient use.

The DELLA Vario Series mini split system is designed to provide energy-efficient cooling and heating for spaces up to 550 square feet. It features a 19 SEER2 rating, a heat pump capable of operating in temperatures as low as -4°F (-20°C), and dehumidification capabilities.



Figure 1.1: DELLA Vario Series 12000 BTU Mini Split Air Conditioner. This image shows the complete system, including the indoor unit, outdoor condenser, remote control, and a smartphone displaying the control app.

## 2. SAFETY INFORMATION

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Always adhere to the following safety precautions to prevent injury or damage to the unit:

- **Professional Installation Required:** This system mandates professional installation. It is not a DIY mini split AC. Improper installation can lead to electric shock, fire, or serious injury.
- **Electrical Safety:** Ensure the power supply matches the unit's requirements (208-230V). Maximum fuse size is 15A. Always disconnect power before performing any maintenance or service.
- **Refrigerant Handling:** The unit is pre-charged. Any alteration of line-set length requires adjusting freon levels, which must be done by a qualified technician.
- **Ventilation:** Ensure proper ventilation around the outdoor unit to prevent overheating.
- **Children and Pets:** Keep children and pets away from the unit during operation and maintenance.
- **Proposition 65 Warning:** This product may expose you to chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

### 3. PACKAGE CONTENTS

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Verify that all components listed below are included in your package:

- Indoor Unit
- Outdoor Unit
- Refrigerant Pipe (16.4 ft installation kit included, standard size 1/4" & 3/8" outer dimension copper pipes)
- Drain Lines (Drain pipe length: 78.7")
- Remote Control
- Rubber Feet
- Insulation Foam
- Mounting Plate
- 2 AAA Batteries (for remote control)
- Wall Sleeve
- Plasticine Putty
- Screws
- Anchors
- Wall Cap
- Plastic Wrap
- Communication Cable
- Bracket Template



Figure 3.1: Exploded view of the DELLA Mini Split system and its included components. Each part is clearly labeled with a number corresponding to the list above.

## 4. SETUP AND INSTALLATION

Installation of this mini split system requires professional expertise. The following is a general overview of the installation process. Do not attempt self-installation unless you are a certified HVAC technician.

- 1. Site Selection:** Choose appropriate locations for both the indoor and outdoor units, ensuring adequate clearance for airflow and maintenance. The indoor unit should be mounted at least 8 inches from the ceiling.
- 2. Mounting Plate Installation:** Securely attach the indoor unit's mounting plate to the wall using the provided screws and anchors, ensuring it is level.
- 3. Wall Hole Drilling:** Drill a 2 3/4 inch (70mm) hole through the wall for the refrigerant pipes, drain line, and communication cable.
- 4. Piping and Wiring:** Connect the refrigerant pipes, drain line, and communication cable between the indoor and outdoor units. Ensure all connections are tight and properly insulated. Line-set vacuuming is required during installation.

5. **Electrical Connection:** Connect the unit to a dedicated 208-230V power supply. Wiring schematic is provided in the detailed installation guide (refer to external PDF document).
6. **Vacuuming and Refrigerant Release:** A vacuum pump and manifold gauge set are required to evacuate the line set. Once vacuumed, carefully open the refrigerant ports.
7. **Drain Line Setup:** Ensure the drain line is properly sloped to allow for continuous water drainage.
8. **Final Checks:** Before powering on, double-check all connections, ensure no leaks, and verify proper insulation.

For detailed installation steps, please refer to the official User Manual (PDF) available for download.[Download User Manual \(PDF\)](#)

## 5. OPERATING INSTRUCTIONS

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

### 5.1. Remote Control Operation

The included remote control allows you to adjust temperature, mode, fan speed, and other settings. The unit will sense room temperature at the remote control during cooling mode, adjusting airflow and temperature for personal comfort and energy savings.

# We work remotely, too.

## Use Our Smart App For Complete Wireless Control.

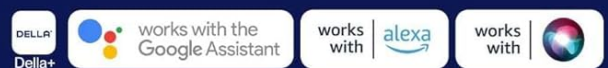


Figure 5.1: Smartphone screens displaying the Della+ app, which provides comprehensive wireless control over the mini split system.

## 5.2. Smart Features and Modes

- **Auto Defrost:** Automatically prevents frost buildup on the outdoor unit, especially in heating mode during cold weather.
- **Self-Diagnosis/Cleaning:** The unit can perform self-diagnosis to identify issues and has a self-cleaning function for improved air quality.
- **I Feel Mode:** Senses the room temperature at the remote control's location, optimizing comfort where you are.
- **24-Hour Timer:** Program the unit to turn on or off automatically within a 24-hour period.
- **Sleep Mode:** Adjusts temperature and fan speed for comfortable sleeping conditions while saving energy.
- **Eco Energy Saving Mode:** Optimizes operation for maximum energy efficiency.
- **Multiple Fan Speeds:** Choose from various fan speeds (Quiet, Low, Mid Low, Mid, Mid High, High, Turbo) for customized airflow.
- **Intelligent Compressor Pre-heating:** Ensures efficient heating performance in cold conditions.
- **Voice Control Compatibility:** Seamlessly integrates with voice assistants like Alexa and Google Assistant for

hands-free control.



Figure 5.2: The DELLA Mini Split system supports voice control, allowing integration with smart home devices like Alexa for convenient operation.

## 6. MAINTENANCE

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Regular maintenance ensures the longevity and efficient operation of your mini split system.

- **Filter Cleaning:** Regularly clean the air filters in the indoor unit to maintain optimal airflow and air quality. Refer to the full manual for frequency and procedure.
- **Outdoor Unit Cleaning:** Keep the outdoor unit free from debris, leaves, and other obstructions to ensure proper heat exchange.
- **PureClean Technology:** The unit features PureClean tech to prevent dust buildup and defrost the indoor unit, contributing to fresher air and advanced sterilization.
- **Frost Prevention:** The bottom electric heating helps prevent frost from forming at the base of the outdoor unit, speeding up defrosting and boosting efficiency.
- **Gold Plated Fins:** The gold-plated fins prevent rust corrosion, contributing to durable and efficient mini-split performance.

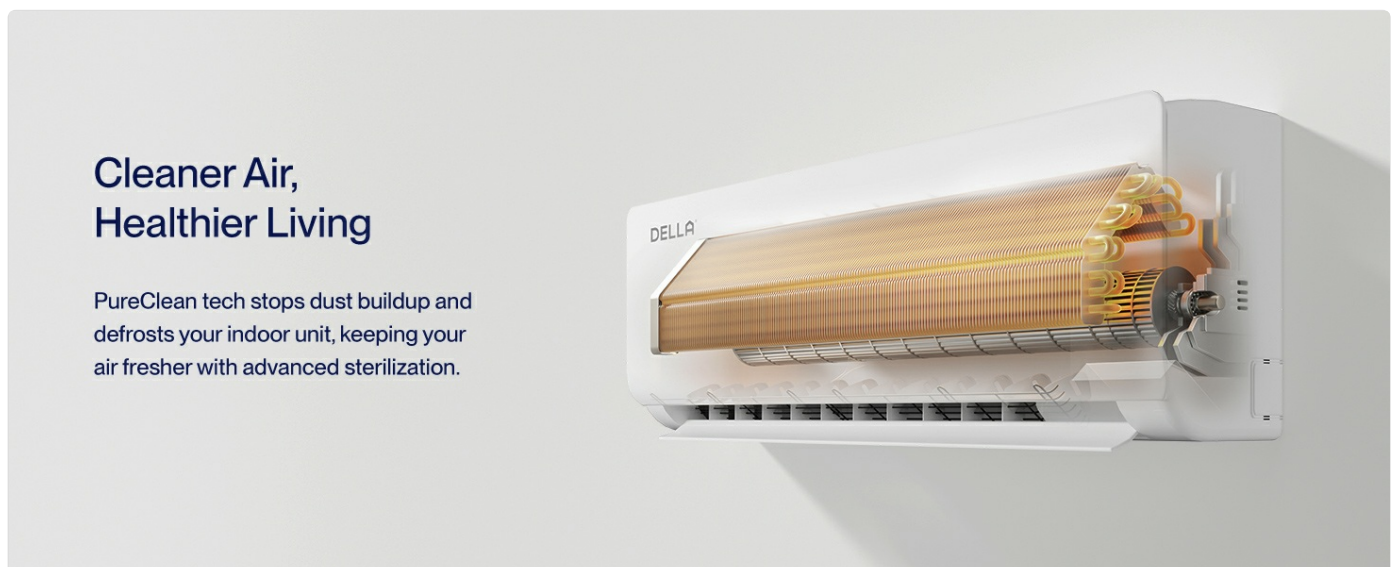


Figure 6.1: Illustration of PureClean technology within the indoor unit, designed to prevent dust buildup and defrost the unit for cleaner air.

## Say Goodbye to Frost Buildup!

Our bottom electric heating helps prevent frost from forming at the base of your model, speeding up defrosting and boosting efficiency.

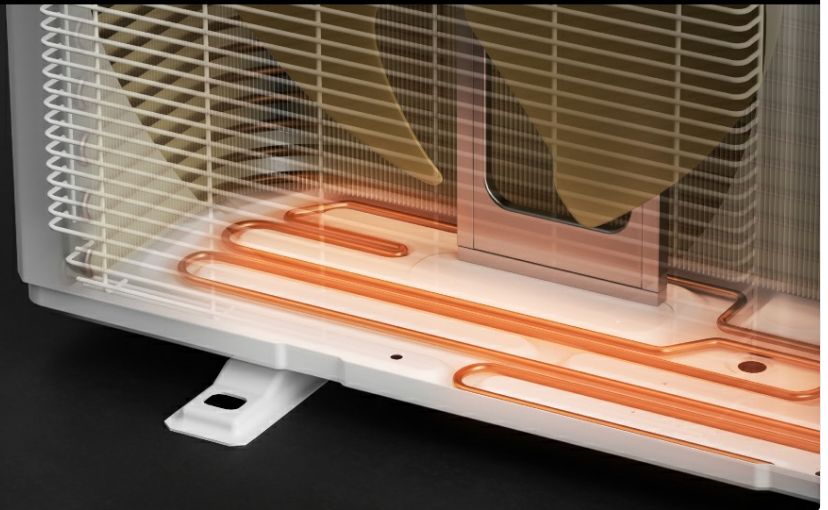


Figure 6.2: Diagram showing the bottom electric heating system in the outdoor unit, which helps prevent frost accumulation and improves defrosting efficiency.

## 7. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Unit does not turn on.	No power, tripped circuit breaker, remote control issues.	Check power supply, reset circuit breaker, replace remote batteries, ensure remote signal is reaching the unit.
Insufficient cooling/heating.	Dirty 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, foreign objects, fan issues.	Inspect for loose components or foreign objects. If noise persists, contact customer support.
Water leakage from indoor unit.	Clogged drain line, improper installation.	Check and clear the drain line. If issue persists, professional re-installation may be required.

For error codes or issues not listed, consult the comprehensive troubleshooting section in the full user manual or contact DELLA customer support.

## 8. SPECIFICATIONS

Key technical specifications for the DELLA Vario Series 12000 BTU Mini Split Air Conditioner:

Feature	Detail
Model Number	048-TL-12K2V-19S-I+O
Cooling Capacity	12000 BTU/h
Heating Capacity	12200 BTU/h
SEER2 Rating	19 SEER2
HSPF Rating	8.5 HSPF
Power Supply	208-230V / 60Hz / 1PH
Max Input Power	1140 W
Max Fuse Size	15A
Noise Level (Indoor)	41 dBa (Ultra Silent)
Noise Level (Outdoor)	52 dB
Coverage Area	Up to 550 sq. ft.
Operating Temperature (Heating)	Down to -4°F (-20°C)
Indoor Unit Dimensions	31.92"W x 8.07"D x 11.49"H
Outdoor Unit Dimensions	28.14"W x 11.42"D x 19.61"H
Item Weight	61 pounds
Special Features	Remote Controlled, Alexa and WiFi Enabled, Fast Cooling and Heating, Dehumidifier



Figure 8.1: Detailed dimensions and key performance specifications for both the indoor and outdoor units of the DELLA Mini Split system.

## 9. WARRANTY AND SUPPORT

DELLA offers comprehensive support for your product.

- **Lifetime Coverage:** The product comes with unmatched warranty coverage.
- **Customer Support:** Product support is available 24/7 via live chat. Phone support is available Monday-Friday, 6 AM - 4 PM PST.
- **Protection Plans:** Additional protection plans (3-Year and 4-Year) are available for purchase.

# Lifetime Coverage

Unmatched Warranty Gives You Peace of Mind



Best In-Class



No Additional Costs



Customer Support



Figure 9.1: Visual representation of DELLA's commitment to lifetime coverage and customer support, emphasizing peace of mind for users.

For further assistance, visit the Della Store on Amazon or refer to the contact information provided in your product packaging.