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› Daikin 24,000 BTU (15K + 15K) 21SEER2 Dual Zone Mini Split bundled Air Conditioner Heat Pump R-32 System with Maxwell 15 ft. Installation Kit and Wall Mounting Bracket 15,000 BTU + 15,000 BTU User Manual

DAIKIN 3MXM24+FTXV15+FTXV15+2xIKM1412F16

Daikin 24,000 BTU Dual Zone Mini Split Air Conditioner Heat Pump System

MODEL: 3MXM24+FTXV15+FTXV15+2xIKM1412F16

Brand: DAIKIN

1. INTRODUCTION

The Daikin Multi-Split Heat Pump Air Conditioner is an advanced and energy-efficient system designed to provide personalized climate control for multi-zone applications. This system features a 3MXM-A Series R32 pre-charged outdoor condenser and two FTXV Series wall-mounted indoor fan coils, delivering exceptional energy efficiency with a 21 SEER2 rating. It is WiFi-enabled for convenient remote control and monitoring via the Daikin One Home app, and offers multiple modes including Auto, Cool, Dry, Heat, and Fan Only, along with timer settings and adjustable airflow for optimal comfort. The eco-friendly R32 refrigerant minimizes environmental impact, while ECONO Operation, Powerful Operation Mode, and quiet operation ensure efficiency and comfort.

2. WHAT'S INCLUDED

Your Daikin Mini Split system package includes the following components:

- 1 x 3MXM24AVJU9 Multi-Split 24,000 BTU Heat Pump Air Conditioner Outdoor Condenser
- 2 x FTXV Series Indoor Fan Coils with Remote Control
- 2 x Maxwell 15 ft Pre-Flared Installation Kits with Interconnecting Cables
- 1 x Maxwell Wall Mounting Bracket for Outdoor Condenser



Figure 2.1: All components included in the Daikin Dual Zone Mini Split System package.

3. KEY FEATURES

- **Multi-Zone Comfort:** Two independently controlled FTXV fan coils (15,000 BTU each) provide personalized climate control for different zones.
- **Energy-Efficient Performance:** Achieves 21 SEER2, 10 HSPF2, 12 EER2, and 1.8 COP ratings, utilizing R-32 Refrigerant for reduced power consumption and environmental impact.
- **All-Season Operation:** Efficient cooling from 14°F to 115°F and reliable heating from 5°F to 59.9°F, suitable for various climates and applications.
- **Smart Control:** Built-in Wi-Fi enables control via the Daikin One Home app and voice commands with Alexa and Google Home.
- **Enhanced Air Quality:** Features a Titanium Air Purifying Filter.
- **Quiet Operation:** Indoor sound pressure as low as 24 dB(A) ensures minimal noise disturbance.
- **Durable Design:** Outdoor heat exchanger features anti-corrosion treatment.

FTXV SERIES WALL MOUNT FAN COIL SYSTEM

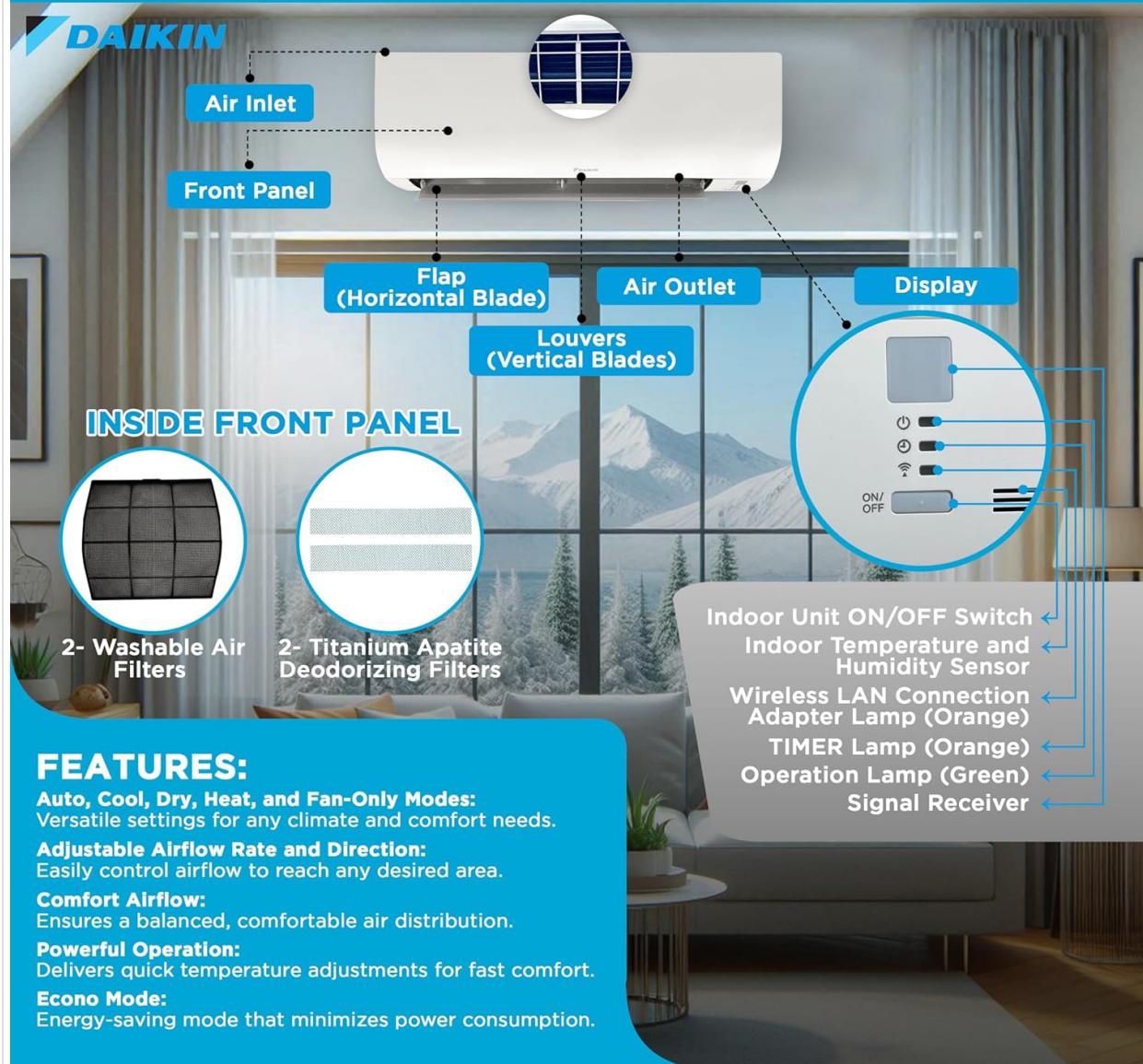


Figure 3.1: Detailed view of the FTXV Series Indoor Unit components and features.



Figure 3.2: Overview of advanced technologies and benefits.

4. SETUP & INSTALLATION

Installation of the Daikin Mini Split system requires specialized knowledge and tools. For safety and to ensure proper operation and warranty validity, installation **must be performed by an HVAC certified technician**. The included Maxwell installation kits provide the necessary components for a streamlined setup.

4.1 Pre-Installation Checks

- Verify that the installation location meets all local building codes and regulations.
- Ensure adequate space for both indoor and outdoor units, allowing for proper airflow and maintenance access.
- Confirm electrical supply meets the system's requirements (1Ph, 60 Hz, 208-230V).

4.2 Professional Installation Steps (Overview)

A certified technician will typically perform the following:

1. Mount indoor units (FTXV Series fan coils) securely on the wall.
2. Install the outdoor condenser unit (3MXM24AVJU9) using the provided wall mounting bracket.

3. Connect refrigerant lines and communication cables between indoor and outdoor units using the Maxwell installation kits.
4. Perform vacuuming and leak checks on the refrigerant lines.
5. Connect electrical wiring according to diagrams.
6. Test system operation in all modes.

5. OPERATING INSTRUCTIONS

Your Daikin Mini Split system offers various modes and control options for personalized comfort.

5.1 Control Options

- **Remote Control:** Each indoor unit comes with a dedicated remote control for direct adjustments.
- **Daikin One Home App:** Utilize the built-in Wi-Fi to connect your system to the Daikin One Home app for remote control and monitoring from your smartphone or tablet.
- **Voice Control:** Integrate with Amazon Alexa or Google Home for convenient voice-activated commands.

5.2 Operating Modes

- **Auto Mode:** The system automatically selects the appropriate mode (heating or cooling) based on the room temperature and desired setting.
- **Cool Mode:** Provides cooling to lower the room temperature.
- **Dry Mode:** Reduces humidity in the room without significant temperature change.
- **Heat Mode:** Provides heating to raise the room temperature.
- **Fan Only Mode:** Circulates air without heating or cooling.

5.3 Advanced Settings

- **Timer Settings:** Program the system to turn on/off at specific times.
- **Adjustable Airflow:** Control the direction and intensity of airflow (4 Way Swing, Power-Airflow Flap, COMFORT AIRFLOW Operation, Auto-Swing).
- **ECONO Operation:** Energy-saving mode that optimizes power consumption.
- **Powerful Operation Mode:** Quickly reaches the desired temperature.
- **Quiet Mode:** Reduces operational noise for a quieter environment.
- **NIGHT SET Mode:** Adjusts temperature for comfortable sleep.
- **Hot-Start Function:** Prevents cold drafts during heating startup.

6. MAINTENANCE

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

6.1 Filter Cleaning

The indoor units are equipped with:

- **Washable Air Filters:** These should be cleaned regularly (e.g., every two weeks or as needed) by rinsing with water and allowing them to dry completely before reinstallation.
- **Titanium Apatite Deodorizing Filters:** These filters help improve air quality. Refer to the full user manual for specific cleaning or replacement instructions.

6.2 General Cleaning

- Wipe the exterior of the indoor and outdoor units with a soft, damp cloth. Avoid harsh chemicals or abrasive cleaners.
- Ensure the outdoor unit's coils are free from debris (leaves, dirt) to maintain optimal heat exchange. The anti-corrosion treatment on the outdoor heat exchanger helps protect against environmental elements.

6.3 Professional Servicing

It is recommended to have your system inspected and serviced by an HVAC certified technician annually to ensure peak performance and address any potential issues.

7. TROUBLESHOOTING

This section provides general guidance for common issues. For detailed troubleshooting steps and error codes, please consult the comprehensive user manual provided with your product or contact a certified HVAC technician.

7.1 Common Issues & Solutions

- **No Power:** Check the circuit breaker. Ensure the unit is properly plugged in.
- **Unit Not Cooling/Heating Effectively:** Verify temperature settings. Check if air filters are clean. Ensure no obstructions to airflow.
- **Unusual Noises:** Minor noises during operation are normal. If loud or persistent, contact a technician.
- **LED Self-diagnostics:** The system is equipped with LED self-diagnostics. Refer to the full manual for interpretation of LED patterns or error codes displayed on the remote control/unit.

7.2 When to Contact a Technician

Contact a certified HVAC technician if you experience any of the following:

- Persistent error codes.
- Significant reduction in cooling or heating performance.
- Refrigerant leaks (indicated by ice formation on lines or unusual hissing sounds).
- Electrical issues or burning smells.

8. SPECIFICATIONS

Attribute	Value
Brand Name	DAIKIN
Model Info	3MXM24+FTXV15+FTXV15+2xIKM1412F16
Item Weight	27 pounds (Indoor Units) / 140 pounds (Outdoor Unit)
Product Dimensions (Indoor Unit)	30.31"D x 11.25"W x 8.75"H
Product Dimensions (Outdoor Unit)	34.25"D x 29.5"W x 12.62"H
Capacity	2 Tons (24,000 BTU)
Noise Level	33 dB (Indoor) / 52 dB(A) (Outdoor)
Installation Type	Split System
Refrigerant Type	R-32
Energy Efficiency (SEER2)	21
Heating Performance (HSPF2)	10
Cooling Capacity	23,000 BTU (12,500 BTU Min – 30,000 BTU Max)
Heating Capacity	24,000 BTU (9,500 BTU Min – 36,000 BTU Max)
Power Supply	1Ph, 60 Hz, 208-230V
Cooling Range	14°F to 115°F
Heating Range	5°F to 59.9°F
Floor Area Coverage	Up to 1500 Square Feet
AHRI Certified	#214837758

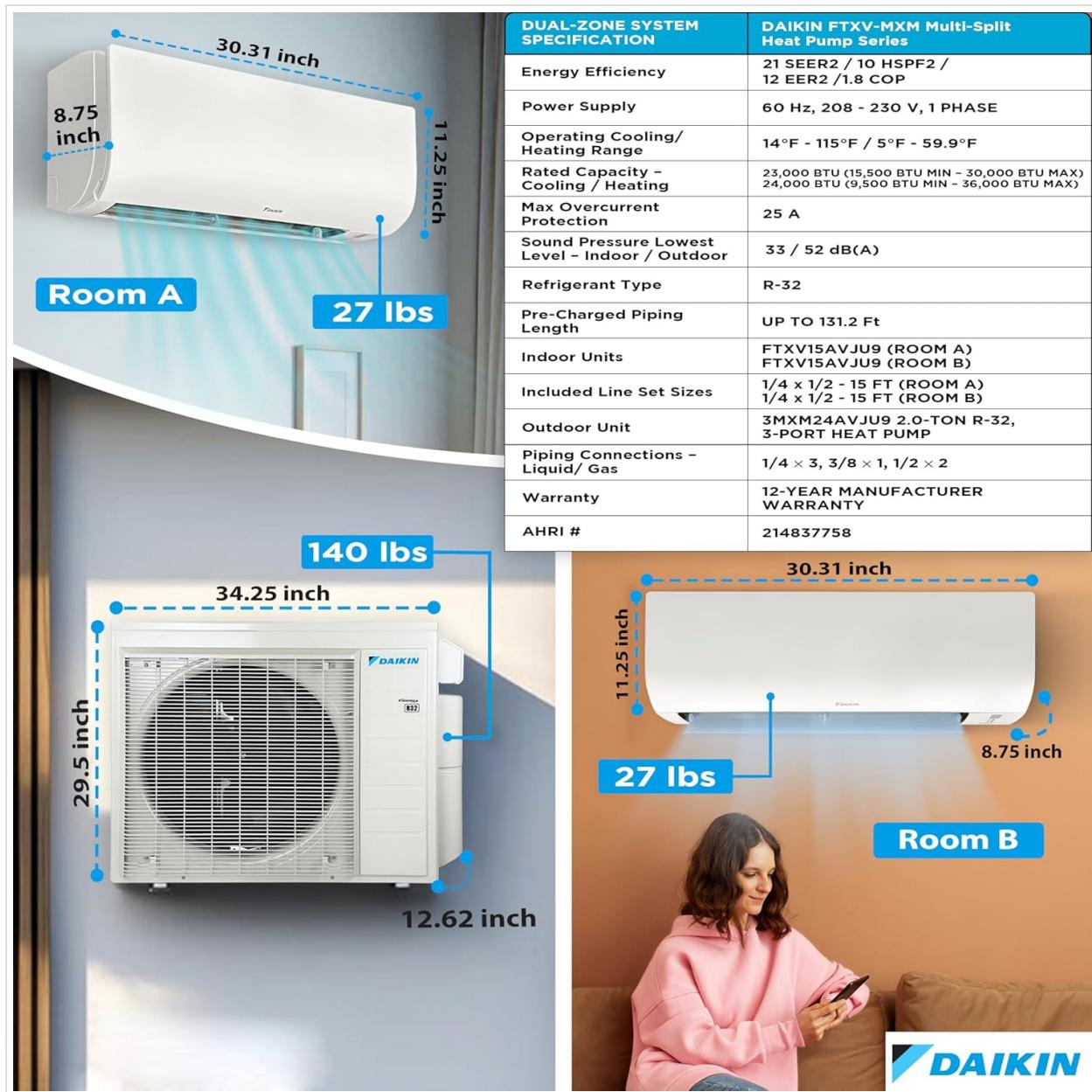


Figure 8.1: System dimensions and detailed specifications.

9. WARRANTY & SUPPORT

9.1 Manufacturer's Warranty

Your Daikin Mini Split system includes a **12-year manufacturer warranty**. Please note that this warranty is valid only if the system is installed by an HVAC certified technician. Retain your installation records and proof of purchase for warranty claims.

9.2 Return Policy

This product is subject to a 30-day refund/replacement return policy from the date of purchase. Please refer to your retailer's specific return terms and conditions.

9.3 Customer Support

For technical assistance, warranty claims, or further inquiries, please contact Daikin customer support or your certified HVAC installer. Always provide your model number and purchase details when seeking support.

