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› Daikin 18,000 BTU (9K + 9K) 21SEER2 2-Zone Mini Split Air Conditioner Heat Pump R-32 System User Manual

DAIKIN 2MXM18AVJU9 + FTXV09AVJU9 + FTXV09AVJU9

Daikin 18,000 BTU (9K + 9K) 21SEER2 2-Zone Mini Split Heat Pump System User Manual

Model: 2MXM18AVJU9 + FTXV09AVJU9 + FTXV09AVJU9

1. PRODUCT OVERVIEW

The Daikin Multi-Split Heat Pump Air Conditioner is an advanced HVAC system designed for multi-zone applications, offering both cooling and heating capabilities. This system includes the 2MXM-A Series R32 pre-charged outdoor condenser and two FTXV Series wall-mounted indoor fan coils, providing independent climate control for two distinct zones. Engineered for high energy efficiency with a 21 SEER2 rating, it utilizes eco-friendly R32 refrigerant to minimize environmental impact and power consumption.

Key features include smart control via the Daikin One Home app, various operating modes (Auto, Cool, Dry, Heat, Fan Only), timer settings, adjustable airflow, and quiet operation. The system comes complete with necessary installation components, including Maxwell installation kits, communication cables, and an outdoor wall bracket.



Figure 1: Complete Daikin 2-Zone Mini Split System components, including outdoor condenser, two indoor units, remote controls, and installation accessories.

2. SETUP AND INSTALLATION

This Daikin mini-split system requires professional installation by an HVAC-certified technician to ensure proper function, safety, and warranty validity. The system is pre-charged with R32 refrigerant, simplifying part of the setup process.

2.1 Components Included

- 2MXM18AVJU9 Multi-Split 18,000 BTU Heat Pump Air Conditioner Outdoor Condenser
- (2) FTXV Series Indoor Fan Coils with Remote Control
- (2) Maxwell 15 Ft Pre-Flared Installation Kits with Interconnecting Cables

- Maxwell Wall Mounting Brackets

2.2 Installation Guidelines (For Certified Technicians)

1. **Site Selection:** Choose appropriate locations for the outdoor condenser and indoor fan coils, ensuring adequate airflow and structural support.
2. **Mounting:** Securely mount the outdoor condenser using the provided Maxwell Wall Mounting Brackets and install indoor units according to manufacturer specifications.
3. **Piping and Electrical Connections:** Connect the pre-flared refrigerant lines and communication cables from the Maxwell installation kits between the outdoor and indoor units. Ensure all electrical connections comply with local codes and the system's power requirements (1Ph, 60 Hz, 208-230V).
4. **Vacuum and Leak Test:** Perform a thorough vacuum of the refrigerant lines and conduct a leak test to ensure system integrity.
5. **System Start-up:** Follow the manufacturer's start-up procedures, including checking refrigerant levels and verifying proper operation of all components.

3. OPERATING INSTRUCTIONS

The Daikin system offers multiple ways to control your indoor climate for optimal comfort.

3.1 Remote Control Operation

Each indoor unit comes with a dedicated remote control for direct operation. Refer to the remote control's specific manual for detailed button functions.

FTXV SERIES WALL MOUNT FAN COIL SYSTEM

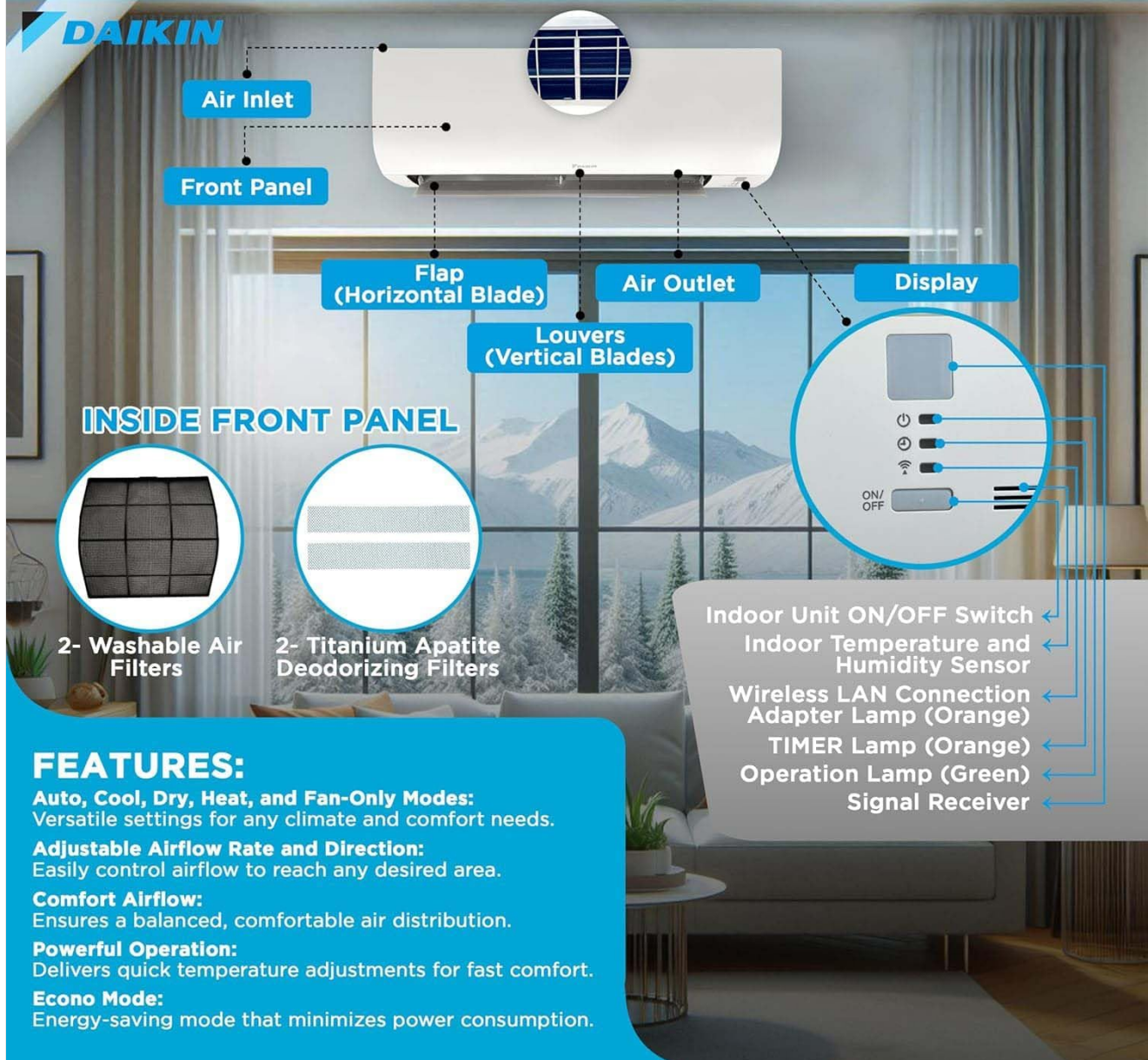


Figure 2: Diagram of the FTXV Series indoor unit, highlighting air inlet/outlet, display, and control panel features.

Common Remote Control Functions:

- **ON/OFF:** Powers the unit on or off.
- **Mode Selection:** Cycle through Auto, Cool, Dry, Heat, and Fan Only modes.
- **Temperature Adjustment:** Increase or decrease the desired temperature.
- **Fan Speed:** Adjust fan speed (e.g., Low, Medium, High, Auto).
- **Swing/Airflow:** Control the direction of the airflow (e.g., 4-way swing, Auto-Swing).
- **Timer:** Set programmed on/off times.
- **ECONO Operation:** Activates energy-saving mode.
- **Powerful Operation Mode:** Provides rapid cooling or heating for quick comfort.
- **NIGHT SET Mode:** Adjusts temperature for comfortable sleep.

3.2 Smart Control (Daikin One Home App, Alexa, Google Home)

The system is compatible with the Daikin One Home app, allowing for convenient remote control and monitoring from your smartphone or tablet. Voice control is also available through Alexa and Google Home. Refer to the Daikin

4. MAINTENANCE

Regular maintenance ensures optimal performance, energy efficiency, and longevity of your Daikin mini-split system.

4.1 Indoor Unit Filter Cleaning

The indoor units are equipped with 2-Washable Air Filters and 2-Titanium Apatite Deodorizing Filters. Clean these filters regularly, typically every two weeks or more frequently depending on usage and air quality.

1. Open the front panel of the indoor unit.
2. Remove the air filters.
3. Clean the washable filters with water and mild detergent, then rinse thoroughly. Allow them to dry completely before reinstallation.
4. For Titanium Apatite Deodorizing Filters, follow specific cleaning instructions in the detailed product manual, usually involving exposure to sunlight.
5. Reinstall all filters and close the front panel.

4.2 Outdoor Unit Maintenance

Keep the area around the outdoor condenser clear of debris, leaves, and other obstructions to ensure proper airflow. The outdoor heat exchanger has an anti-corrosion treatment, but periodic inspection for dirt buildup is recommended. For detailed cleaning of the outdoor coil, consult a professional HVAC technician.

4.3 Professional Servicing

It is recommended to have your system inspected and serviced by a certified HVAC technician annually. This includes checking refrigerant levels, electrical connections, and overall system performance.

5. TROUBLESHOOTING

This section provides solutions to common issues you might encounter. For complex problems, contact a certified HVAC technician.

Problem	Possible Cause	Solution
Unit does not turn on	No power; Remote control batteries low; Circuit breaker tripped	Check power supply; Replace remote batteries; Reset circuit breaker
Insufficient cooling/heating	Dirty air filters; Blocked outdoor unit; Incorrect mode/temperature setting; Low refrigerant	Clean air filters; Clear obstructions from outdoor unit; Verify settings; Contact technician for refrigerant check
Unusual noise	Loose parts; Obstruction in fan; Normal operating sounds (e.g., refrigerant flow)	Inspect for loose parts; Remove obstructions; If persistent or loud, contact technician
LED indicator flashing/error code	System self-diagnosis detected an issue	Note the error code and consult the detailed service manual or contact a certified technician.
Unit does not respond to remote	Batteries low/dead; Obstruction between remote and unit; Remote malfunction	Replace batteries; Ensure clear line of sight; Try controlling via Daikin One Home app if connected.

The system features LED self-diagnostics and an auto-restart function after power failures to enhance reliability.

6. SPECIFICATIONS

Detailed technical specifications for the Daikin 18,000 BTU 2-Zone Mini Split Heat Pump System.

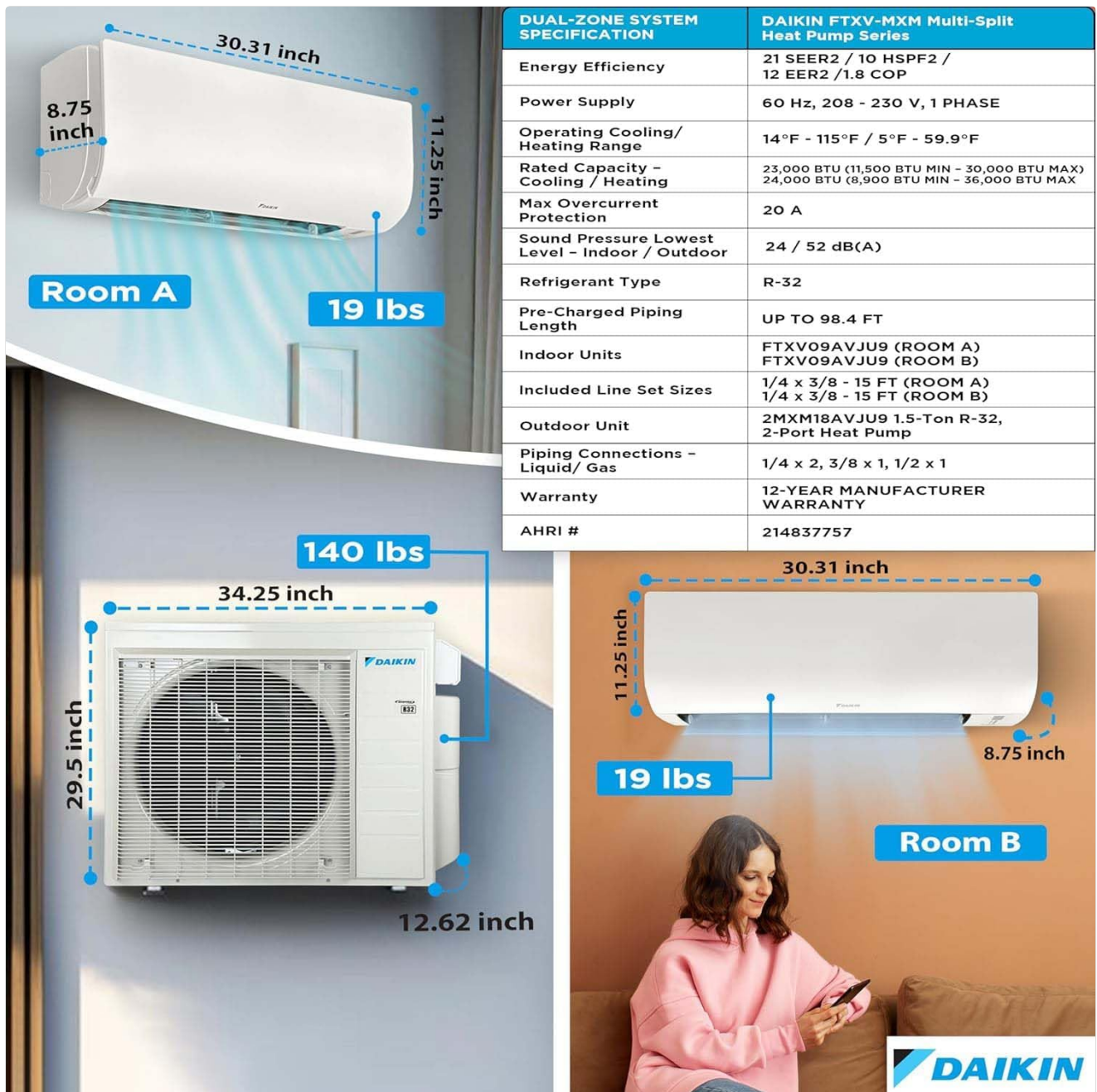


Figure 3: Detailed dimensions and key specifications for the Daikin outdoor and indoor units.

Feature	Specification
Model Info	2MXM18AVJU9 + FTXV09AVJU9 + FTXV09AVJU9
Capacity	1.5 Tons (18,000 BTU)
Cooling Capacity	17,200 BTU (5,600 BTU Min – 21,000 BTU Max)
Heating Capacity	18,500 BTU (2,900 BTU Min – 25,000 BTU Max)
SEER2 Rating	21
HSPF2 Rating	10
EER2 Rating	12
COP	1.8
Refrigerant Type	R-32
Power Supply	1Ph, 60 Hz, 208-230V
Max Overcurrent Protection (MOCP)	20A
Noise Level (Indoor/Outdoor)	24 / 52 dB(A)
Operating Cooling Range	14°F to 115°F
Operating Heating Range	5°F to 59.9°F
Outdoor Unit Dimensions (D x W x H)	12.62" x 34.25" x 29.5"
Indoor Unit Dimensions (D x W x H)	8.75" x 30.31" x 11.25"
AHRI Certified	#214837757

7. WARRANTY AND SUPPORT

Your Daikin Mini Split Heat Pump System comes with a comprehensive warranty and access to support resources.

7.1 Manufacturer Warranty

A **12-Year Manufacturer Warranty** is included with this system. Please note that this warranty is contingent upon installation by an HVAC-certified technician. Retain your proof of purchase and installation records for warranty claims.

7.2 Customer Support

For technical assistance, warranty claims, or to locate a certified Daikin service provider, please refer to the official Daikin website or contact their customer service. You can also visit the DAIKIN Store on Amazon for additional product information and resources.

