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MITSUBISHI ELECTRIC VL-10JV3-D

Mitsubishi Electric VL-10JV3-D Lossnay Mini Ventilation Fan User Manual

Model: VL-10JV3-D

1. INTRODUCTION

This manual provides essential instructions for the safe and efficient operation, installation, and maintenance of your Mitsubishi Electric VL-10JV3-D Lossnay Mini Ventilation Fan. This unit is designed for 24-hour simultaneous supply and exhaust ventilation in living rooms up to 10 tatami mats (16.5m²) in cold regions. Please read this manual thoroughly before use and keep it for future reference.



Image 1.1: Mitsubishi Electric VL-10JV3-D Lossnay Mini Ventilation Fan. This image shows the compact, rectangular ventilation unit, typically installed on a wall, with visible air intake and exhaust vents.

2. IMPORTANT SAFETY INFORMATION

Failure to follow these safety instructions may result in injury or damage to the product.

- **Moisture Resistance:** This unit is not moisture-resistant. Do not install or use it in bathrooms, washrooms, or other high-humidity environments.
- **System Components:** Always use this unit in combination with the specified system components. Using incompatible parts may lead to malfunction or safety hazards.
- **Severe Weather Conditions:** During periods of low outdoor temperature, strong snow, wind, rain, fog, or powder snow, water or snow may enter with the supply air, causing dripping. In such conditions, stop the unit's operation and close the manual shutter. Do not stop operation under normal conditions or solely for cleaning/inspection.
- **Condensation/Frost Risk:** Condensation or frost may form on the panel and inside the main unit under specific environmental conditions: outdoor temperature -10°C or below, indoor temperature $15-25^{\circ}\text{C}$, and indoor humidity 45% or above.
- **Installation Restrictions:** This unit is designed for wall-mounted installation only. It cannot be mounted vertically or on the ceiling.

3. PRODUCT FEATURES

The VL-10JV3-D Lossnay Mini Ventilation Fan offers advanced features for efficient and comfortable indoor air quality:

- **24-Hour Ventilation:** Provides continuous air exchange for improved indoor air quality.
- **Cold Region Specifications:** Designed to operate effectively in colder climates.
- **Permeable Membrane Total Heat Exchanger:** Recovers heat from exhaust air to pre-condition incoming fresh air, reducing energy loss.
- **Two-Stage Airflow:** Features 'Strong' and 'Weak' settings for adjustable ventilation intensity.
- **Low Noise & Low Power Consumption:** Engineered for quiet and energy-efficient operation.
- **Antibacterial Panel:** The main unit panel incorporates antibacterial properties.
- **Allergen Removal Filter:** Equipped with a filter designed to remove allergens from the air.
- **Cold Weather Operation Mode:** An exhaust-only mode that closes the supply air shutter to prevent cold air ingress during extremely low outdoor temperatures (recommended for -10°C to -20°C outdoor temperatures).
- **Compact Body:** Space-saving design for easy integration.
- **Quick-Connect Terminal:** Simplifies electrical connection.

4. SETUP AND INSTALLATION

Proper installation is crucial for the performance and safety of your ventilation fan. Installation should be performed by a qualified professional.

1. **Mounting:** The unit is designed for wall-mounted installation only. Ensure the mounting surface is sturdy and level.
2. **Duct Connection:** Connect a ϕ 100mm connection pipe to the unit. Ensure all connections are sealed to prevent air leakage.
3. **Electrical Connection:** Utilize the quick-connect terminal for electrical wiring. The unit operates on a single-phase 100V power supply. A direct outlet plug replacement cord (P-01DC, P-250DC) can be attached if needed.
4. **Outdoor Components:** Note that the outdoor hood and pipe are sold separately and must be installed according to local building codes and manufacturer guidelines.
5. **System Integration:** This unit must be used in conjunction with specified system components for optimal performance and safety.

5. OPERATING INSTRUCTIONS

Familiarize yourself with the controls for effective use of your ventilation fan.

- **Power Switch:** The main power switch is located on the upper right side of the main unit. Toggle this switch to turn the unit ON or OFF.
- **Airflow Switching:** A 'Strong' and 'Weak' switching switch is also located on the upper right side of the main unit. Select the desired airflow intensity.
- **Manual Slide Shutter:** A manual slide shutter is located on the rear side of the main unit. This shutter can be manually closed to block airflow, particularly useful during severe weather.
- **Cold Weather Operation Mode:** To activate this mode, close the manual slide shutter for the supply air. The unit will then operate in exhaust-only mode, preventing cold outdoor air from entering while still removing stale indoor air. This mode is recommended when outdoor temperatures are between -10°C and -20°C .

6. MAINTENANCE AND CARE

Regular maintenance ensures optimal performance and longevity of your ventilation fan.

- **Filter Cleaning/Replacement:** The unit is equipped with a standard allergen removal filter. Periodically inspect and clean or replace the filter as needed to maintain air quality and airflow efficiency.
- **Optional High-Performance Filter:** For enhanced particle collection efficiency, consider using the separately sold high-performance dust filter (P-70HF2). The standard filter may allow some small particles and insects to pass through.
- **General Cleaning:** Ensure the unit is powered off before any cleaning. Wipe the exterior surfaces with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- **Inspection:** Regularly check for any unusual noises, vibrations, or reduced airflow. If any issues are

detected, refer to the troubleshooting section or contact customer support.

7. TROUBLESHOOTING

This section addresses common issues you might encounter with your ventilation fan.

Problem	Possible Cause	Solution
Water/Snow ingress and dripping	Severe outdoor weather conditions (low temperature, strong snow, wind, rain, fog, powder snow).	Stop operation and close the manual slide shutter. Resume operation once weather conditions improve.
Condensation or frost on unit/panel	Operating under specific environmental conditions: outdoor temperature < -10°C, indoor temperature 15-25°C, indoor humidity > 45%.	Adjust indoor temperature/humidity or use 'Cold Weather Operation' mode. If conditions are extreme, temporary cessation of operation may be necessary.
Small particles/insects entering	Standard filter allows some small particles to pass.	Consider replacing the standard filter with the separately sold high-performance dust filter (P-70HF2) for improved collection efficiency.
Reduced airflow or unusual noise	Clogged filter, obstruction in ducts, or internal malfunction.	Check and clean/replace filters. Inspect ducts for obstructions. If the problem persists, contact customer support.

8. SPECIFICATIONS

Feature	Detail
Brand	Mitsubishi Electric
Model Number	VL-10JV3-D
Connection Pipe Diameter	φ100 mm
Applicable Room Size	10 Tatami Mats (16.5 m ²)
Power Supply	Single Phase 100V (Power cord type)
Material	Plastic, Alloy Steel
Dimensions (Package)	49.6 x 30.5 x 24 cm

Feature	Detail
Item Weight	3.46 kg
Features	Energy efficiency, 24-hour ventilation, Cold region specifications, Heat exchanger, Antibacterial panel, Allergen removal filter
Included Accessories	Instruction Manual
Usage Environment	Indoor, Outdoor (with appropriate outdoor components)

9. WARRANTY AND SUPPORT

For warranty information, please refer to the specific warranty card or documentation included with your product at the time of purchase. For technical support, spare parts, or service inquiries, please contact your local Mitsubishi Electric dealer or authorized service center. Keep your purchase receipt and model number (VL-10JV3-D) handy when contacting support.