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> [Panasonic Ziaino F-ML4000B Hypochlorous Acid Air Purifier Instruction Manual](#)

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Model: F-ML4000B

1. PRODUCT OVERVIEW

The Panasonic Ziaino F-ML4000B is a hypochlorous acid air purifier and deodorizer designed to sterilize and deodorize the air in your living space. It utilizes hypochlorous acid to effectively eliminate floating and adhering bacteria and viruses, as well as various odors, providing a cleaner and fresher environment. Its compact design allows for flexible placement in various rooms.



Figure 1: Panasonic Ziaino F-ML4000B unit, showcasing its sleek design.

2. SAFETY INFORMATION

Please read all safety instructions carefully before using the appliance to prevent injury to yourself and others, and to avoid property damage. Keep this manual for future reference.

- Always use the correct power supply as specified in the product specifications.
- Do not block air inlets or outlets. Ensure proper ventilation around the unit.
- Keep the appliance away from water and moisture. Do not operate with wet hands.

- Do not attempt to disassemble or repair the unit yourself. Contact qualified service personnel for repairs.
- Keep out of reach of children and pets.
- Only use specified salt tablets and water for the hypochlorous acid generation.

3. SETUP

Follow these steps to set up your Ziaino F-ML4000B for the first time:

1. **Unpack the Unit:** Carefully remove the air purifier from its packaging.
2. **Choose a Location:** Place the unit on a flat, stable surface. Ensure there is adequate space around the unit for air circulation. The compact design allows it to fit in spaces as small as A4 size.
3. **Fill the Water Tank:** Remove the water tank from the unit. Fill it with clean tap water up to the maximum fill line.
4. **Insert Salt Tablet:** Place one specified salt tablet into the designated compartment within the water tank. The unit automatically generates hypochlorous acid from the salt tablet and water.
5. **Replace Water Tank:** Securely reinsert the water tank into the unit.
6. **Connect Power:** Plug the power cord into a suitable electrical outlet.



Figure 2: The compact design of the Ziaino F-ML4000B, suitable for small spaces like an A4 footprint.

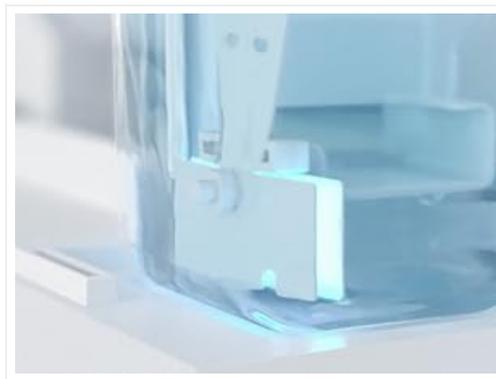


Figure 3: Illustration of the automatic hypochlorous acid generation process within the unit.

4. OPERATING INSTRUCTIONS

The Ziaino F-ML4000B offers effective sterilization and deodorization for various indoor environments.

4.1 Control Panel

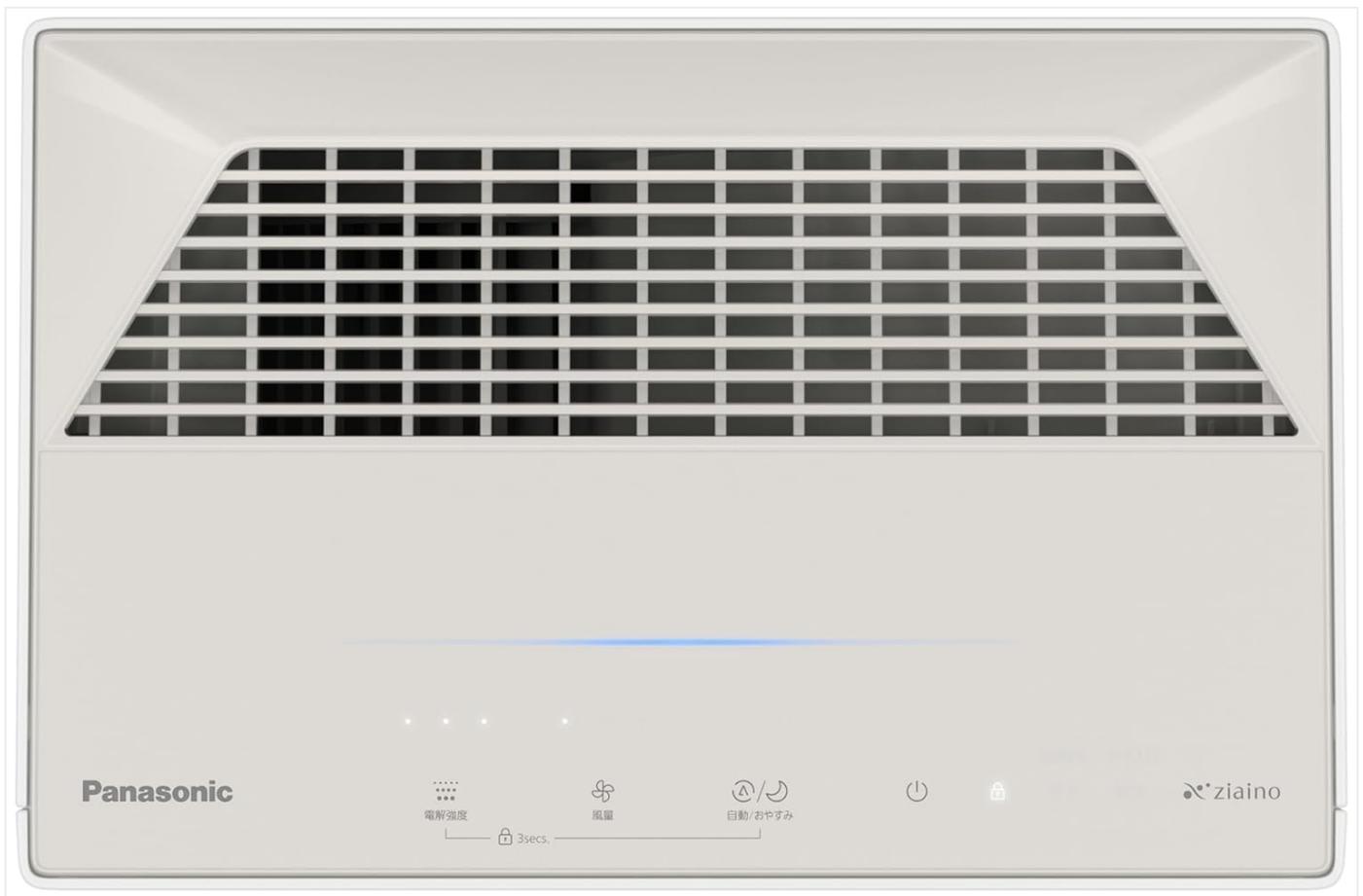


Figure 4: Top view of the control panel with power, mode, and fan speed settings.

Use the buttons on the control panel to power on/off, adjust fan speed, and select operating modes. Refer to the icons on the panel for specific functions.

4.2 Sterilization Function

The unit effectively sterilizes both airborne and adhering bacteria and viruses using hypochlorous acid.

- **Airborne Bacteria:** Approximately 35 minutes for a 6-tatami (approx. 10m²) enclosed space.
- **Adhering Bacteria:** Approximately 12 hours for an 18-tatami (approx. 30m²) enclosed space.

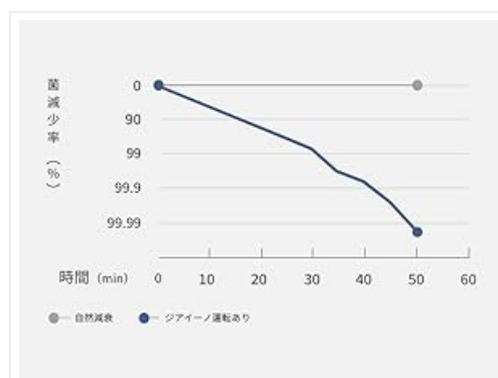


Figure 5: Illustration of floating bacteria in the air, targeted by the unit.

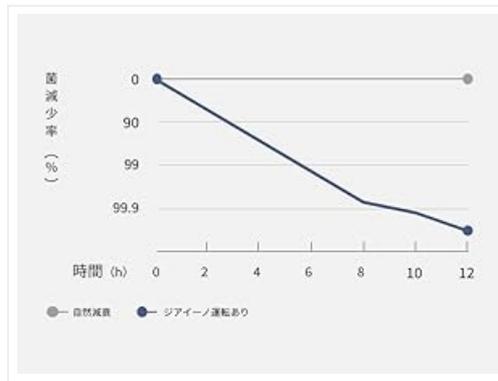


Figure 6: Illustration of bacteria adhering to surfaces within a room, also targeted by the unit.

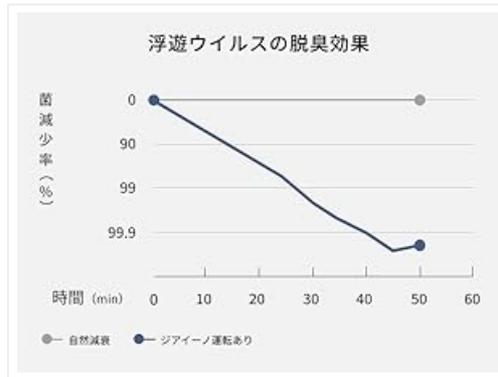


Figure 7: Graph illustrating the suppression effect of the unit on airborne viruses over time.

4.3 Deodorization Function

The Ziairno F-ML4000B provides continuous deodorization against persistent odors such as pet odors, care odors, raw garbage odors, drain odors, grilled fish odors, and sweat/body odors. It quickly deodorizes before odors permeate the room.



Figure 8: Visual representation of the deodorization effect on common household odors.



Figure 9: Graph showing the reduction of pet waste odor intensity after 175 minutes of operation.



Figure 10: The unit effectively deodorizes entrance odors, as shown in this example placement.

4.4 Dust Collection and Allergen Suppression

The unit also features a dust collection function, effectively capturing pollen and house dust. The protective element (HEPA filter) captures harmful substances, and some of the released hypochlorous acid suppresses captured pollen and allergens.

- **Dust Collection Area:** Up to 8 tatami (approx. 13m²).
- **Pollen/Allergen Suppression:** Effective against indoor pollen and allergens.



Figure 11: Illustration of the dust collection process, showing pollen and dust being captured.

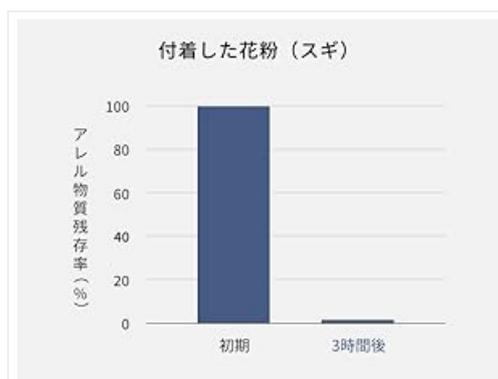


Figure 12: Graph demonstrating the suppression of adhering pollen (cedar) over time.

5. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your Ziaino F-ML4000B. The water-related components require periodic cleaning.

- **Weekly Drainage:** Lightly drain the water from the unit once a week. This helps prevent buildup.
- **Bi-Annual Thorough Cleaning:** A thorough cleaning of the sterilization filter, water tray, and mold prevention unit is

recommended once every six months.

- **Prevent Slime Buildup:** The unit is designed to suppress slime formation, but regular cleaning is still essential.

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Figure 13: The removable water tray, designed for easy cleaning.



Figure 14: The unit's design incorporates features to suppress slime formation in the water tank.



Figure 15: The flat tray design minimizes indentations, making it easier to clean.

6. TROUBLESHOOTING

If you encounter any issues with your Ziaino F-ML4000B, please refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Unit does not power on.	Power cord not properly connected; no power from outlet.	Ensure the power cord is securely plugged into both the unit and a working electrical outlet.
Weak deodorization/sterilization effect.	Low water level; expired salt tablet; dirty filters/tray; unit placed in a very large or poorly ventilated area.	Check water level and refill if necessary. Replace salt tablet if needed. Clean the water tray and filters as per maintenance instructions. Ensure the unit is suitable for the room size.
Unusual noise during operation.	Obstruction in fan; unit not on a stable surface; internal component issue.	Check for any foreign objects obstructing the fan. Place the unit on a stable, flat surface. If the noise persists, contact customer support.
Water leakage.	Water tank not properly installed; tank damaged.	Ensure the water tank is correctly and securely inserted. Inspect the tank for cracks or damage.

If the problem persists after trying these solutions, please contact Panasonic customer support.

7. SPECIFICATIONS

Key technical specifications for the Panasonic Ziaino F-ML4000B:

Feature	Detail
Model Number	F-ML4000B-W
Brand	Panasonic
Color	White
Product Dimensions (D x W x H)	18.5 x 28 x 45 cm
Package Dimensions	50.4 x 34.4 x 22.4 cm
Item Weight	6.41 kg (Package Weight)

Feature	Detail
Power Source	Corded Electric
Battery Usage	No
Applicable Floor Area (Sterilization)	Up to 18 tatami (approx. 30m ²)
Applicable Floor Area (Dust Collection)	Up to 8 tatami (approx. 13m ²)

8. WARRANTY AND SUPPORT

This product comes with a manufacturer's warranty. Please refer to the warranty card included in the packaging for specific terms and conditions.

- **Extended Protection:** A 5-year accident protection plan is available for purchase (¥8160).
- **Customer Support:** For technical assistance, troubleshooting, or warranty claims, please contact Panasonic customer service. Contact details can be found on the official Panasonic website or in your product documentation.

