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TOYOTOMI TIW-A160F

TOYOTOMI Window Air Conditioner TIW-A160F User Manual

Model: TIW-A160F

1. INTRODUCTION

Thank you for purchasing the TOYOTOMI Window Air Conditioner, Model TIW-A160F. This compact cooling-only unit is designed for easy installation without the need for an outdoor unit or complex wall construction. It provides efficient cooling for rooms ranging from 4 to 7 tatami mats, depending on the frequency (50Hz or 60Hz). Please read this manual thoroughly before installation and operation to ensure safe and optimal performance of your air conditioner. Keep this manual for future reference.



Image 1.1: Front view of the TOYOTOMI TIW-A160F Window Air Conditioner. This image shows the compact design of the unit, suitable for window installation.

2. IMPORTANT SAFETY INFORMATION

To prevent injury to the user or others and property damage, the following instructions must be followed. Incorrect operation due to ignoring instructions may cause harm or damage.

- **Electrical Safety:** Ensure the power supply matches the unit's specifications (100V). Do not use extension cords or multi-outlet adapters. Always plug the unit directly into a dedicated wall outlet.
- **Installation:** Install the unit securely in a window frame according to the instructions. Do not attempt to install the unit in an unstable location.

- **Operation:** Do not insert fingers or objects into the air inlet/outlet. Do not operate the unit with wet hands.
- **Maintenance:** Always unplug the unit before cleaning or performing any maintenance. Do not use flammable sprays or solvents near the unit.
- **Children and Pets:** Keep children and pets away from the unit during operation.
- **Damage:** If the power cord is damaged, it must be replaced by the manufacturer, its service agent, or similarly qualified persons to avoid a hazard.

3. PACKAGE CONTENTS

Please check that all the following items are included in the box:

- TOYOTOMI Window Air Conditioner Unit (TIW-A160F)
- Remote Control
- Aluminum Standard Mounting Frame
- Instruction Manual (this document)
- Warranty Card



Image 3.1: Example of the remote control included with the unit. The remote allows for convenient adjustment of settings.

4. SETUP AND INSTALLATION

The TOYOTOMI TIW-A160F is designed for straightforward window installation, eliminating the need for an outdoor unit or complex wall modifications. Follow these general steps for installation:

1. **Prepare the Window:** Ensure the window frame is sturdy and clean. The window must be a double-hung or sliding type that can accommodate the unit and mounting frame.
2. **Install the Mounting Frame:** Attach the provided aluminum standard mounting frame to the window opening according to the detailed instructions in the separate mounting frame guide. Ensure it is level and securely fastened to prevent vibration and air leakage.
3. **Place the Unit:** Carefully lift the air conditioner unit and slide it into the installed mounting frame. Ensure it is firmly seated and locked into place. Due to the unit's weight (approximately 22 kg), it is recommended to have assistance during this step.
4. **Secure the Unit:** Use the provided screws and brackets to secure the air conditioner to the mounting frame and window sash, preventing it from falling or being dislodged.
5. **Seal Gaps:** Use the included sealing materials (foam strips, weatherstripping) to fill any gaps around the unit and frame. This prevents air leakage and improves cooling efficiency.
6. **Power Connection:** Plug the power cord into a dedicated 100V electrical outlet. Do not use extension cords.



Image 4.1: Illustrative diagram of a window air conditioner installation. This diagram demonstrates how the unit fits into a window frame with the mounting kit.

5. OPERATING INSTRUCTIONS

Your TOYOTOMI Window Air Conditioner is operated primarily using the remote control. The unit itself has a basic ON/OFF button for emergency use.

5.1 Basic Operation

- **Power On/Off:** Press the **ON/OFF** button on the remote control to turn the unit on or off.
- **Mode Selection:** This unit is a cooling-only model. It will primarily operate in cooling mode. A dehumidifying function is also available.
- **Temperature Adjustment:** Use the **Temperature Up (▲)** and **Temperature Down (▼)** buttons on the remote to set your desired room temperature.
- **Fan Speed:** Adjust the fan speed (Low, Medium, High) using the **Fan Speed** button on the remote.

5.2 Dehumidifying Function

The unit can also operate in dehumidifying mode to reduce humidity in the room. In this mode, the unit will cool slightly while removing moisture from the air. The dehumidifying capacity is approximately 0.8 L/h (50Hz) or 1.0 L/h (60Hz).

5.3 Airflow Direction

Manually adjust the horizontal and vertical louvers on the front of the unit to direct the airflow as desired for optimal comfort.

6. MAINTENANCE AND CARE

Regular maintenance ensures efficient operation and extends the lifespan of your air conditioner. Always unplug the unit before cleaning.

6.1 Air Filter Cleaning

The air filter should be cleaned every two weeks or more frequently if the unit is used often or in dusty environments.

1. Open the front panel of the unit.
2. Carefully remove the air filter(s).
3. Wash the filter(s) with lukewarm water and a mild detergent. Rinse thoroughly.
4. Allow the filter(s) to air dry completely before reinserting them into the unit. Do not expose to direct sunlight or heat.
5. Close the front panel securely.

6.2 Exterior Cleaning

Wipe the exterior of the unit with a soft, damp cloth. Do not use harsh chemicals, abrasives, or solvents, as these can damage the surface.

6.3 Seasonal Storage

If storing the unit for an extended period:

- Clean the air filter and exterior thoroughly.
- Run the unit in fan-only mode for a few hours to dry out any internal moisture.
- Unplug the unit and store it in a dry, dust-free location, preferably in its original packaging.

7. TROUBLESHOOTING

Before contacting customer support, please refer to the following table for common issues and their solutions.

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Unit does not turn on	No power supply; Power cord not plugged in; Circuit breaker tripped.	Check power cord connection; Reset circuit breaker; Ensure power outlet is functional.
Insufficient cooling	Dirty air filter; Room too large for unit capacity; Doors/windows open; Air intake/outlet blocked.	Clean air filter; Close doors/windows; Remove obstructions; Consider room size vs. unit capacity.
Unusual noise or vibration	Loose installation; Unit not level; Compressor noise (normal); Objects vibrating against unit.	Ensure unit is securely installed and level; Check for loose parts or objects near the unit. Some compressor noise is normal for window units.
Water leakage	Unit not tilted slightly outwards; Drain hose (if used) blocked or disconnected.	Ensure unit is slightly tilted outwards for proper drainage; Check and clear drain hose.
Remote control not working	Dead batteries; Obstruction between remote and unit.	Replace batteries; Remove any obstructions.

8. SPECIFICATIONS

Brand:	TOYOTOMI
Model:	TIW-A160F
Type:	Window Air Conditioner (Cooling Only)
Power Consumption (50Hz/60Hz):	523W / 598W
Cooling Capacity (50Hz/60Hz):	1.4 kW / 1.6 kW
Dehumidifying Capacity (50Hz/60Hz):	0.8 L/h / 1.0 L/h
Applicable Room Size (50Hz):	4-6 tatami (6-10 square meters)
Applicable Room Size (60Hz):	4.5-7 tatami (7-11 square meters)
Voltage:	100 V
Material:	Metal
Product Dimensions (D x W x H):	27.5 x 36.1 x 74.2 cm
Product Weight:	22 kg
Special Features:	Rapid Cooling

9. WARRANTY AND SUPPORT

Your TOYOTOMI Window Air Conditioner TIW-A160F comes with a warranty. Please refer to the included Warranty Card for specific terms, conditions, and duration of the warranty coverage. Keep your proof of purchase for warranty claims. For technical assistance, service, or to inquire about replacement parts, please contact TOYOTOMI customer support. Contact information can typically be found on the Warranty Card or the official TOYOTOMI website.

When contacting support, please have your model number (TIW-A160F) and purchase date ready.