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## Panasonic FY-30KW-W

# Panasonic FY-30KW-W Wall-Mounted Heat Exchange Ventilation Fan Instruction Manual

## INTRODUCTION

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This manual provides essential information for the safe and efficient use of your Panasonic FY-30KW-W wall-mounted heat exchange ventilation fan. Please read these instructions thoroughly before installation and operation, and keep this manual for future reference.

## SAFETY INFORMATION

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### Important Safety Precautions:

- This product requires a pre-installed pipe for proper function. Refer to the construction manual for applicable pipe types. This unit cannot be installed on VP pipes.
- When operating the product, ensure the shutter lever is moved to the "open" position.
- If the outdoor temperature is  $-5^{\circ}\text{C}$  or below, and the indoor temperature is  $20^{\circ}\text{C}$  with indoor relative humidity of 50% or more, condensation may form on the main unit's surface. Wipe any condensation with a cloth.
- During periods of low outdoor temperatures (below  $-10^{\circ}\text{C}$ ), or strong wind, rain, or snow (especially fog or powder snow), water or snow may enter with the supply air, causing dripping. In such cases, stop operation and close the shutter.
- Except for the conditions mentioned above, and during cleaning or inspection, do not stop operation to ensure continuous 24-hour ventilation.
- Multiple units cannot be operated with a single switch.

## SETUP AND INSTALLATION

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Proper installation is crucial for the performance and safety of the unit. It is recommended that installation be performed by a qualified professional.

### Dimensions and Mounting

Refer to the diagram below for external dimensions and mounting hole specifications. All measurements are in millimeters (mm).

■外形寸法図(単位 : mm)

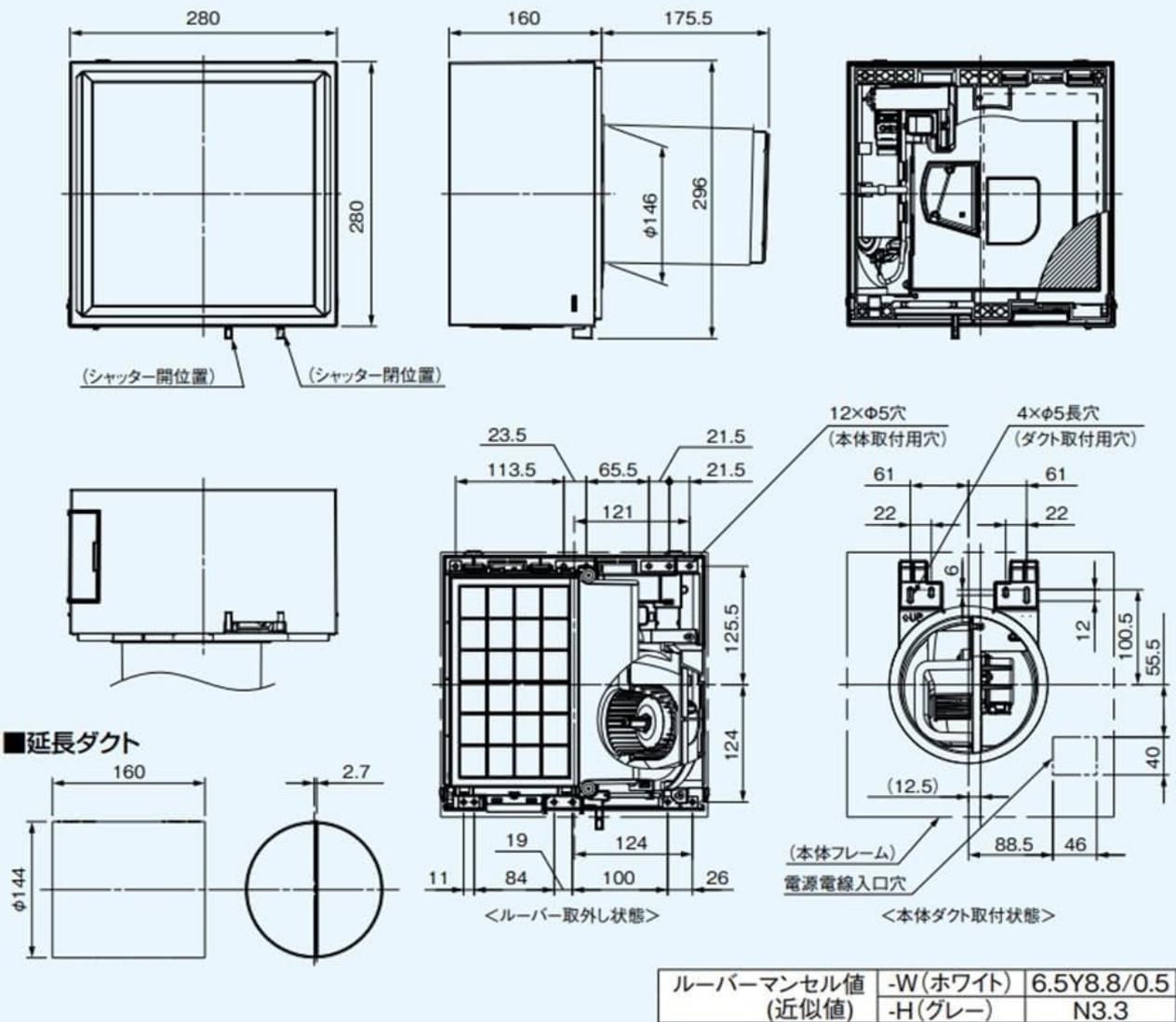


Figure 1: External Dimension Diagram (Unit: mm)

**Key Dimensions:**

- **Main Unit:** Width 280 mm, Height 280 mm, Depth 332 mm.
- **Mounting Holes (Main Unit):** 12 holes,  $\varnothing 5$  mm.
- **Mounting Holes (Duct Attachment):** 4 elongated holes,  $\varnothing 5$  mm.
- **Extension Duct:** Length 160 mm, Diameter  $\varnothing 144$  mm.

Ensure adequate space for installation and maintenance access. The unit requires a pre-installed pipe; confirm compatibility with the construction manual. Do not install on VP pipes.

**OPERATING INSTRUCTIONS**

The Panasonic FY-30KW-W fan is designed for continuous ventilation with heat exchange capabilities.

**Basic Operation**

1. **Power On:** Connect the unit to a single-phase 100V, 50/60 Hz power supply.
2. **Shutter Position:** Before operating, ensure the shutter lever is moved to the "open" position.
3. **Fan Speed Selection:** The unit offers two fan speed settings: **Strong** and **Weak**. Select the desired speed based on ventilation needs.
4. **Continuous Operation:** For optimal indoor air quality, the unit is designed for 24-hour continuous ventilation. Avoid stopping operation unless necessary for maintenance or extreme weather conditions.

## Special Conditions

- In severe weather (outdoor temperatures below -10°C, strong wind, rain, snow, fog, or powder snow), stop the unit and close the shutter to prevent water/snow ingress.

## MAINTENANCE

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Regular maintenance ensures the longevity and efficiency of your ventilation fan.

### Filter Cleaning and Replacement

- The fresh air filter (for fine particles) should be cleaned approximately once a year.
- Replace the fresh air filter approximately once every two years.
- *Note:* Filter replacement periods are guidelines. Depending on the usage environment, replacement may be required sooner.

### Condensation Management

- If condensation forms on the unit's surface under specific cold and humid conditions (outdoor -5°C or below, indoor 20°C and 50% humidity or more), wipe it immediately with a soft, dry cloth.

## TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Unit not operating.	Power supply issue; Shutter closed.	Check power connection. Ensure shutter lever is in the "open" position.
Water/snow entering the room.	Extreme outdoor weather conditions (low temperature, strong wind, rain, snow, fog).	Stop operation and close the shutter immediately. Resume operation when weather improves.
Condensation on unit surface.	Cold outdoor temperature (-5°C or below) combined with high indoor humidity (20°C, 50% RH or more).	Wipe the surface with a dry cloth. Consider adjusting indoor humidity if possible.
Reduced airflow or efficiency.	Clogged fresh air filter.	Clean or replace the fresh air filter as per maintenance guidelines.

If problems persist after attempting these solutions, please contact Panasonic customer support or a qualified service technician.

## SPECIFICATIONS

Detailed technical specifications for the Panasonic FY-30KW-W heat exchange ventilation fan.

Feature	Specification
Model Number	FY-30KW-W
Dimensions (W x D x H)	280 mm x 332 mm x 280 mm
Weight	2.6 kg
Motor Type	2-pole open capacitor induction motor
Rated Power Supply	Single phase 100V, 50/60 Hz
Power Consumption (Strong/Weak)	50Hz: 8.1W / 4.5W; 60Hz: 9.6W / 5.4W
Air Volume (Strong/Weak)	50Hz: 30 m <sup>3</sup> /h / 18.5 m <sup>3</sup> /h; 60Hz: 30 m <sup>3</sup> /h / 18 m <sup>3</sup> /h
Effective Ventilation Volume (Strong/Weak)	50Hz: 27.6 m <sup>3</sup> /h / 17.0 m <sup>3</sup> /h; 60Hz: 27.6 m <sup>3</sup> /h / 16.6 m <sup>3</sup> /h
Effective Ventilation Rate	92%
Noise Level (Strong/Weak)	50Hz: 27 dB / 18 dB; 60Hz: 27 dB / 18 dB
Temperature Exchange Efficiency (Strong/Weak)	67% / 76%
Heat Exchange Efficiency (Cooling, Strong/Weak)	50% / 58%
Heat Exchange Efficiency (Heating, Strong/Weak)	57% / 68%
Insulation Class	E
Materials	Louver, main frame, ducts, fans, intake filter cover: PP resin; Supply shutter: ABS resin; Exhaust shutter: PE+PP resin

## WARRANTY AND SUPPORT

For warranty information, please refer to the warranty card included with your product or visit the official Panasonic website. For technical support, service, or inquiries, please contact Panasonic customer service.

*Note:* The lifespan of components like filters can vary based on usage environment. The stated replacement periods are guidelines and not a guarantee of performance for the entire period.



