Thank you very much for purchasing this Panasonic Ventilating Fan.

Please read these instructions carefully before attempting to install, operate or service the Panasonic Ventilating Fan. Failure to comply with instructions could result in personal injury or property damage. Please explain to users how to operate and maintain the product after installation, and this booklet should be presented to users. Please retain this booklet for future reference.

In the event of a power failure or a failure of the power supply, do not use the fan. Please refer to the AMCA specifications for more information.

Please contact your local Panasonic representative for further assistance.

Panasonic

Installation and Operating Instructions

Ventilating Fan

Model No. FV-24JR2

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The following instructions should be strictly observed in order to prevent injury to the users and other people, or damage to property.

The degrees of injury or damage that can be occured when the instructions are ignored and if the product is not used properly have been classified and described by the following indications.

**Warning**

Those things shown in this column indicate that there is possibility of causing death or severe injury.

- **Caution**

Those things shown in this column indicate that there is possibility of causing injury to the users or damage.

- **Caution**

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- **Caution**

Those things shown in this column indicate that there is possibility of causing death or severe injury.

Types of instructions that should be observed have been classified and described by the following pictorial symbols.  

**Installation Cautions**

Installation instructions that should be followed to prevent the product from being damaged or malfunctioning.

**Warning**

These symbols indicate the item is “PROHIBITED” to do.

This symbol indicates the “COMPULSORY” item that must be followed without failure.

This symbol indicates the “CAUTION” item.

A grounding device is required.

- Phải có thiết bị tiếp đất.

Product failure or electric leakage may cause electric shock.

- Sản phẩm không hoạt động hoặc có điện có thể gây điện chấn.

- Sử dụng thiết bị điện với điện áp và dây sạc quy định chỉ được chính xác.

Use this product at the rated voltage and frequency indicated on the name plate.

- Sản phẩm không hoạt động hoặc không thể sạc điện.

- Điều này có thể làm hỏng sản phẩm hoặc gây hỏa hoạn.

This may damage the product or result in fire.  

- Nếu không đúng điều kiện điện áp và làm sạc điện.

- Điều này có thể làm hỏng sản phẩm hoặc gây hỏa hoạn.

- Điều này có thể dẫn đến rò rỉ hoặc cháy.
Warning

Do not install the product as the method which is not approved in the instruction.

Improper installation may cause the product to fall off.

Do not install it at places where steam is present.

The lowest surface of this product should be mounted above 2.3m from the floor after installation.

Touching the product may result in injury.

The special-purpose or dedicated parts, such as mounting fixtures, must be used if such parts are provided.

Improper installation may cause the product to fall off.

The precautions illustrated in the guide are not sufficient.

Install this product securely.

Improper installation may cause the product to fall off.

Improper installation may cause the product to fall off.
INSTALLATION CAUTIONS (CONTINUED)

**Warning**

- Precautions must be taken to avoid the back-flow of gases into the room from the open-flue of gas or other fuel-burning appliances.

**Cảnh báo**

- Thực hiện các biện pháp phòng ngừa tránh khí từ đường hút cháy gas vào phòng từ hầm nhiệt hoặc từ các thiết bị đặt trong nhà, nhằm đảm bảo an toàn cho người sử dụng.

This may result in fire.

**Chú ý**

- Nếu không có hệ thống hút cháy gas, việc sử dụng Incorrect installation may cause the product to fall off.

**Quan tài**

- Những vị trí không phù hợp với điều kiện sử dụng, việc điều chỉnh không đúng hoặc không có hệ thống hút cháy gas, việc sử dụng

- Do not install this product in places with excessive oil mist.

**Không lắp đặt thiết bị ở nơi có quá nhiều hơi dầu mỡ.**

- Không lắp đặt thiết bị ở nơi có quá nhiều hơi dầu mỡ.

- Achten Sie darauf, dass das Produkt nicht in der Nähe von Ölspritzern installiert wird.

**Không lắp đặt thiết bị ở nơi có quá nhiều hơi dầu mỡ.**

- Không lắp đặt thiết bị ở nơi có quá nhiều hơi dầu mỡ.

- **Caution**

- Short circuit may result in fire.

**Cảnh báo**

- Phải thực hiện các biện pháp phòng ngừa từ thiết bị khôngollections or other fuel-burning appliances.

**Caution**

- Short circuit may result in fire.

**Chú ý**

- short circuit may result in fire.

**Quan tài**

- Phải thực hiện các biện pháp phòng ngừa từ thiết bị không collections or other fuel-burning appliances.
**Caution**

- Do not install this product on an inclined ceiling.
- Make sure there is a square inspection hole of at least 45 cm.
- Make sure that the parts are installed securely.
- Be sure to provide an appropriate opening for air intake.
- Ensure installation regulation concerning local requirement should be fulfilled.

**Chú ý**

- Không lắp đặt sản phẩm này trên tường nhà bị nghiêng.
- Có đảm bảo có khuôn thay đổi của hộp gió không nhỏ hơn 45 cm.
- Đảm bảo các chi tiết được安装牢固.
- Cố đảm bảo có cửa quay gió đủ lớn.
- Cố đảm bảo tuân thủ quy định mẫuensen địa phương.

---

Rainwater may flow back into the room.

Nước mưa có thể chảy ngược lại vào phòng.

This may make installation and maintenance difficult.

Điều này có thể khiến công tác lắp đặt và bảo dưỡng gặp khó khăn.

This may affect product performance.

Điều này có thể ảnh hưởng đến hoạt động của sản phẩm.

This may damage the product's structure and decrease its safety.

Điều này có thể làm hỏng cấu trúc sản phẩm hoặc làm giảm mức độ an toàn của sản phẩm.

---

**Warning**

Parts may fall off.

Các chi tiết có thể bị rơi ra.

---

**Note**

This may affect ventilation performance of the product.

Điều này có thể ảnh hưởng đến hoạt động thông gió của sản phẩm.

---

**Notice**

Installation requires a suitable opening for air intake.

Điều này có thể ảnh hưởng đến hoạt động thông gió của sản phẩm.
<table>
<thead>
<tr>
<th>No.</th>
<th>Part name</th>
<th>Tên bộ phận</th>
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<th>Part name</th>
<th>Tên bộ phận</th>
</tr>
</thead>
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<tr>
<td>①</td>
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<td>Thân quạt</td>
<td>②</td>
<td>Wiring box</td>
<td>Hộp chença năng</td>
<td>③</td>
<td>Adapter assembly</td>
<td>Phụ kiện ống</td>
</tr>
<tr>
<td></td>
<td>ตัวพัดลม</td>
<td>จิ๊มจูเท้า</td>
<td></td>
<td>กล่องสายไฟ</td>
<td>صندوق المفرقع</td>
<td></td>
<td>Bộ lắp ráp</td>
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<tr>
<td>④</td>
<td>Louver</td>
<td>Cửa gió</td>
<td>⑤</td>
<td>Sensor unit (For FV-24JR2 Model)</td>
<td>Bộ cảm biến (สำหรับรุ่น FV-24JR2)</td>
<td>⑥</td>
<td>Air volume switch</td>
<td>ผังควบคุมการไหลอากาศ</td>
</tr>
<tr>
<td></td>
<td>บานเคลือด</td>
<td>ซีลนิค</td>
<td></td>
<td>หน่วยที่ตรวจจับ FV-24JR2</td>
<td>หน่วยการกันการเปลี่ยนแปลง (รุ่น FV-24/R2)</td>
<td></td>
<td>ปรับปรุงระบายอากาศ</td>
<td>ผังควบคุมการไหลอากาศ</td>
</tr>
<tr>
<td>⑦</td>
<td>Hexagon screw</td>
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<td></td>
<td>สกรูเกลียว обратกลอน</td>
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<td></td>
<td>ใบพัด</td>
<td>ด้านร่วง</td>
</tr>
</tbody>
</table>
The following accessories are provided with the ventilating fan in the package. When you unpack, check if the accessories are all included. If any accessory is missing, please contact the dealer.

<table>
<thead>
<tr>
<th>Appearance / Phù kiến kèm theo</th>
<th>Name and Purpose / Chữ và ví dụประสงค์การใช้</th>
<th>Tên gọi và Mục đích sử dụng / คำของและภารกิจ</th>
<th>Quantity / Số lượng</th>
<th>Unit / đơn vị</th>
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<td>Hướng dẫn Lắp đặt và vận hành</td>
<td>تعليماتการติดตั้งและใช้งาน</td>
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<td>Số lượng</td>
</tr>
<tr>
<td>Tapping screw (ST4.2x20) fixing the body assembly and the adapter assembly to the wooden frame</td>
<td>vít cắm ตั้งโปรแกรมเปิดรับ การติดตั้งของจักรกลแผ่นไม้</td>
<td>Vit cắm ตั้งโปรแกรมเปิดรับ</td>
<td>6</td>
<td>Số lượng</td>
</tr>
<tr>
<td>Louver (FV-24JR2 model’s louver is connected with fan body)</td>
<td>ผนังทำเลที่ (ผนังทำเลที่ติดตั้งกับตัวพัดลม)</td>
<td>ผนังทำเลที่ (ผนังทำเลที่ติดตั้งกับตัวพัดลม)</td>
<td>1</td>
<td>Số lượng</td>
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<tr>
<td>Cửa gió (Cửa gió kiểu FV-24JR2 được gắn với thân quạt)</td>
<td>Cửa gió (Cửa gió kiểu FV-24JR2 được gắn với thân quạt)</td>
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<td>1</td>
<td>Số lượng</td>
</tr>
</tbody>
</table>

HOW TO INSTALL

When you unpack and take out the product, be sure to take out the louver and the fan body together, because the sensor lead wire is connected between the louver and the fan body.

Warning
Danger

CÁCH LẤP ĐẶT

Installation illustrations are based on the FV-24JR2 model.

Installation instructions for FV-24JR2

When extracting the product, be sure to take out the louver and the fan body together, because the sensor lead wire is connected between the louver and the fan body.

警告
危险

When extracting the product, be sure to take out the louver and the fan body together, because the sensor lead wire is connected between the louver and the fan body.

警告
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This may cause the sensor lead wire to be damaged.

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This may cause the sensor lead wire to be damaged.
Caution

Be sure not to add any tension on the sensor lead wire between the louver and the fan body when installing this fan.

The sensor lead wire or the louver may be damaged.

When you install the fan, be careful not to be struck by the hanging louver.

Do not take out the louver from the poly cover before install it.

Peel off the caution label and screws accessory stucked on the adapter assembly.

Prepare the fan body installation (with wooden joist)

1. Build a wooden frame horizontally from the wooden joist. Note that the distance between the top of the fan body and the ceiling should be at least 20 mm. スラブ天井を取り付ける際には注意が必要です。通風面積が確保できるようスラブ天井との間隔は20mm以上

2. Keep the power cord above the fan body, then insert the fan body to the wooden frame as shown in the figure and firmly secure the fan body with six tapping screws (ST4,2x20).


Chú ý

Khi lắp đặt quạt, không nên căng dây cảm biến giữa cửa gió và thân quạt.

Nếu quạt hoặc dây cảm biến bị rơi, bạn sẽ gặp rủi ro.

Thời điểm lắp đặt quạt, hãy cẩn thận để không bị phÄnh chưa gió đang rơi ở trên và vÃo.

This may cause injury or damage the louver.

Chumláy sÁng phÄnh chưa gió không giãm Ánh sáng và khắc một trong khi lắp đặt.

The dirt may adhere to the louver or damage may be caused.

Chất bẩn có thể bám dính vào hoặc có thể gây hỏng cửa gió.

Chuẩn bị

Cách lắp đặt (tiếp tục)

Việc lắp đặt tiếp theo (tiếp theo)

1. Lắp đặt quạt (có khung gỗ)

Tình trạng quạt (bướm xám)

Tình trạng quạt (bướm xám)

Để lắp đặt quạt vào cấu trúc, hãy nối dây cảm biến giữa cửa gió và thân quạt.

Screw accessory ốc vít

Caution label viếng cảnh chú ý

Nhãn của thành phần

PREPARATIONS

VIỆC TƯỚI RỄ MÁT

2-A FAN BODY INSTALLATION (WITH WOODEN JOIST)
2-A Fan Body Installation (with wooden joist)

Lắp đặt thân quạt (có khung gỗ)

kiểm định (tiếp tục)

Fan body installation (with wooden joist)

2-B Fan Body Installation (with anchor bolts)

Lắp đặt thân quạt (với các bu lông treo)

Turbofan Installation (continued)

việc giám sát (tiếp tục)

Turbofan installation (continued)

Checking and installation of the fan body.

Fan body installation (continued)

Checking and installation of the fan body.

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Fan body installation (continued)

Checking and installation of the fan body.

Fan body installation (continued)

Checking and installation of the fan body.
2-C Fan Body Installation (Install the adapter assembly first)

① First remove the hexagon screw attaching the adapter assembly to the fan body.

Đầu tiên hãy tháo vít lục giác niêm óc tay tiếp hợp với chân quạt.

First remove the hexagon screw attaching the adapter assembly to the fan body.

② Remove the adapter assembly by following Steps 1 and 2 as shown in the figure.

Lắp bộ tiếp hợp theo các Bước 1 và 2 như hình.

③ Build a wooden frame horizontally from the wooden joist. Note that the distance between the top of the fan body and the ceiling should be at least 20 mm. The distance must be measured from the front of the fan body and the rear of the wooden frame.

Làm một khung gỗ theo hình dạng lên từ thanh gỗ. Lưu ý rằng khoảng cách giữa phần trên của quạt và trần nhà là 20 mm.

④ Install the adapter assembly by clamping to the wooden frame as shown in the figure, and fix the adapter assembly to the wooden frame with two tapping screws (ST4.2x20).

Lắp bộ tiếp hợp bằng cách áp vào khung gỗ như hình bên và gắn bộ tiếp hợp vào khung gỗ bằng hai con vít đục đầu côn (ST4.2x20). 

⑤ Keep the power cord above the fan body, then insert the fan body into the wooden frame, and connect it to the adapter assembly.

Bắt đầu dây nguồn điện vào trên quạt, sau đó gắn quạt vào khung gỗ và gắn vào bộ tiếp hợp.

⑥ Ensure that the power cord completely passes through the wooden frame, let the fan body and wooden frame would clamp to damage the power cord.

Chắc chắn dây điện hoàn toàn đi qua khung gỗ, để quạt và khung gỗ kết hợp để tránh gây hư hại dây điện.

⑦ If the adapter line does not align with the middle of the wooden frame, you may not be able to install the fan body onto the adapter assembly.

Nếu dây kết nối đầu ra không đúng trung tâm của khung gỗ, bạn sẽ không thể lắp được quạt lên bộ tiếp hợp.

⑧ Bao đảm dây điện nguồn hoàn toàn đi qua khung gỗ để tránh mắc cạn và hư hỏng dây điện.

Nếu dây điện không đi qua khung gỗ, bạn sẽ không thể lắp được quạt lên bộ tiếp hợp.

⑨ Thích hợp cho tiếp hợp với không gian của bạn.

Thích hợp cho tiếp hợp với không gian của bạn. Nếu không, bạn có thể lắp được quạt lên bộ tiếp hợp.
3 Power Cord Connection

Connect the power cord to the power supply according to the wiring diagram and the local electrical wiring rules of fixed wiring.

FV-24JR2

Make sure all connections are fastened firmly after wiring is finished.

Do not damage the insulation paste of the power cord.

It is required to use terminal (not supplied) that complies IEC 60998.

The all connections should be accommodated in a suitable compartment.

Nối dây với nguồn điện

Tỏa nọi hàng điện

Connect the power cord to the power supply according to the wiring diagram and the local electrical wiring rules of fixed wiring.

FV-24JA2

Make sure all connections are fastened firmly after wiring is finished.

Do not damage the insulation paste of the power cord.

It is required to use terminal (not supplied) that complies IEC 60998.

The all connections should be accommodated in a suitable compartment.

Nối dây với nguồn điện

Tỏa nọi hàng điện

Connect the power cord to the power supply according to the wiring diagram and the local electrical wiring rules of fixed wiring.

FV-24JR2

Make sure all connections are fastened firmly after wiring is finished.

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Tỏa nọi hàng điện

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Tỏa nọi hàng điện

Connect the power cord to the power supply according to the wiring diagram and the local electrical wiring rules of fixed wiring.

FV-24JA2

Make sure all connections are fastened firmly after wiring is finished.

Do not damage the insulation paste of the power cord.

It is required to use terminal (not supplied) that complies IEC 60998.

The all connections should be accommodated in a suitable compartment.
4 Duct Connection and Joist Plate Installation

① Insert the duct into the adapter assembly and tighten it with adhesive tape (not supplied). (Suspend the duct from the ceiling to prevent any external force onto the fan body.)

ไม่ควรใช้ในระบบทานผนังและพานไปแนวผนังทางไม่ได้มาพร้อมกับเครื่อง
(แขวนท่อจากที่เพื่อป้องกันการกระแทกหรือกว่างพัดลม)
Duct ติดต่อกับท่อ และจัดตั้งขอบด้านบน
(ไม่ให้เกิดการกระแทก)

ความสามารถในการเป็นตัวท่อพื้น
Duct ผนัง หรือแขวน

② Install the joist plate. Note that the gap between the flange and the joist plate should be 2 to 5 mm.

ติดต่อกับท่อผนังและจัดตั้งขอบด้านบนที่เหมาะสม
ที่จะมีการกระแทกหรือกว่างพัดลม
Lắpด้านท่อผนัง ขอบด้านบนอย่างเหมาะสม

③ Install the pipe hood or vent cap (not supplied) on the outer wall.

ติดต่อกับท่อผนังและจัดตั้งขอบด้านบนที่เหมาะสม
Lắpด้านท่อผนัง ขอบด้านบนอย่างเหมาะสม

Pipe hood ติดต่อกับท่อผนัง
Vent cap ขอบด้านบน

FV-MCX100P ศูนย์กลาง
FV-VCX100P ศูนย์กลาง

5 Louver Installation

วิธีการติดตั้งกรมพลัง

① Take off the poly cover before installing the louver and please wear gloves during the louver installation.

การออกแบบกันฝุ่นหรือการติดตั้งกรมพลัง
ขั้นตอนการ套装ลิโอเวอร์

② First, insert the mounting spring 1 into the slot near the switch knob as shown in the figure.

ขั้นตอนการ套装ลิโอเวอร์

③ Adjust the air volume switch by following the switch indication on Page 14.

ปรับอุณหภูมิการควบคุมตามคำแนะนำในหน้า 14
HOW TO INSTALL (CONTINUED)

### CÁCH LẤP DÂT (TIẾP TỤC)

#### düc trình kỹ thuật

**4.** For FV-24JR2 model: Check that the sensor lead wire is in the wire hook and does not fall off. Be sure to tidy up the sensor lead wire and keep it away from the air intake and fan blades.

- **Fan function:**
  - **Function:** Working normally
  - **Operation:**
    - Do the fan blades rotate anti-clockwise?
    - Is there any abnormal sound or vibration?
    - Check the fan motor and blades

**5.** Finally, insert the mounting spring 2 into another slot and mount louver to the fan body.

- **Spring slot:**
  - **Operation:**
    - Mounting spring 2

### Test Run

6. **Causes:**

**1.** When the power is turned on, check for functions as follows:

- **Fan function:**
  - **Operation:**
    - Does the LED indicator blink when the sensor detects motion of a person?
    - Do the fan blades rotate properly?
    - Are there any abnormal sounds or vibrations?

**2.** Functions of the wall signal switch (For FV-24JR2 model):

- **Function:**
  - **Operation:**
    - Toggle the air volume switch to the “0” position by following the switch indication on Page 14. Does the LED indicator light up when the sensor detects motion of a person?
    - Does the fan blades rotate properly?
    - Do the fan blades stop rotating automatically in 15 minutes after the person leaves?

**3.** If LED sensor function does not work properly:

- **Operation:**
  - **Function:**
    - Check the LED sensor and power supply
    - Check the wall signal switch

**4.** If the LED sensor function does not work properly:

- **Operation:**
  - **Function:**
    - Check the LED sensor function

**5.** If the wall signal switch does not work properly:

- **Operation:**
  - **Function:**
    - Check the wall signal switch

### Chạy thử

**1.** Khi bắt nguồn, kiểm tra các chức năng sau:

- Quyết định vị trí:
  - **Chức năng:**
    - Đèn led cảm biến khi động người?
    - Đèn led cảm biến khi động người có tự động tắt không?

**2.** Ghi chú:

- **Chức năng:**
  - **Điều kiện:**
    - Đèn led cảm biến khi động người?
    - Đèn led cảm biến khi động người có tự động tắt không?

**3.** Ghi chú:

- **Chức năng:**
  - **Điều kiện:**
    - Đèn led cảm biến khi động người?
    - Đèn led cảm biến khi động người có tự động tắt không?

**4.** Ghi chú:

- **Chức năng:**
  - **Điều kiện:**
    - Đèn led cảm biến khi động người?
    - Đèn led cảm biến khi động người có tự động tắt không?

**5.** Ghi chú:

- **Chức năng:**
  - **Điều kiện:**
    - Đèn led cảm biến khi động người?
    - Đèn led cảm biến khi động người có tự động tắt không?

**6.** Ghi chú:

- **Chức năng:**
  - **Điều kiện:**
    - Đèn led cảm biến khi động người?
    - Đèn led cảm biến khi động người có tự động tắt không?
**SWITCH INDICATION**

** Påtaensesst**

- **Air volume switch positions**
  - Dạng tăng giảm gas
  - Các vị trí của công tắc cài đặt lưu lượng gió:
    - 0
    - 80
    - 120
    - 160

<table>
<thead>
<tr>
<th>Air Volume (m³/h)</th>
<th>Lưu lượng khí</th>
<th>Công tắc chỉnh lưu</th>
<th>Lưu lượng gió</th>
</tr>
</thead>
<tbody>
<tr>
<td>▼</td>
<td>0</td>
<td>80</td>
<td>120</td>
</tr>
<tr>
<td></td>
<td></td>
<td>160</td>
<td></td>
</tr>
</tbody>
</table>

Initial setting: 80 m³/h, Adjust range: 80 - 160 m³/h. The "▼" position is used for factory test only. Do not use this position. (Suitable sensor range: 0 - 80 m³/h)

**Operation**

**Procedure**

1. **Motion sensor (For FV-24J2R)**
   - Cảm biến chuyển động (Dạng cho kiểu FV-24J2R)
   - Khi cảm biến phát hiện chuyển động của một người, quạt dòng tiếp tục hoạt động.

2. **Detectable range**
   - Phạm vi cảm biến:
     - At the condition that the room temperature is 25°C:
       - The distance that can be detected is about 3m.
     - The field of view of the sensor is about 90°.

**Operation**

- **When the sensor detects motion of a person, the fan keeps running at the maximum air volume until the delay time ends.**

**Button Function**

- **Human action**
  - Human activity in the room

**Detectable Area**

- **Fan action**
  - Fan runs when there is motion

**Air Volume Status**

- **Air volume switch**
  - Lưu lượng gió
  - Tổng cài đặt thông số:
    - 160 m³/h
    - 120 m³/h
    - 80 m³/h
    - 0 m³/h
<table>
<thead>
<tr>
<th>Functions of the wall signal switch (continued)</th>
<th>Các chức năng của công tắc tín hiệu trên tường (tiếp)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Human action</strong> (Hành động người)</td>
<td><strong>Các chức năng của công tắc tín hiệu trên tường</strong> (tiếp)</td>
</tr>
<tr>
<td><strong>Fan action</strong> (Hành động quạt)</td>
<td><strong>Vấn đề</strong> (tiếp)****</td>
</tr>
<tr>
<td><strong>Air volume status</strong> (Tình trạng lưu lượng)</td>
<td><strong>Vận hành</strong> (tiếp)****</td>
</tr>
<tr>
<td><strong>Entry (Vào)</strong></td>
<td><strong>Chú ý</strong> (tiếp)****</td>
</tr>
<tr>
<td><strong>Exit (Ra)</strong></td>
<td><strong>Thủ tục</strong> (tiếp)****</td>
</tr>
<tr>
<td><strong>Outside (Bên ngoài)</strong></td>
<td><strong>Trạng thái</strong> (tiếp)****</td>
</tr>
<tr>
<td><strong>Inside (Trong)</strong></td>
<td><strong>Trạng thái</strong> (tiếp)****</td>
</tr>
<tr>
<td><strong>Human action</strong> (Hành động người)</td>
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<td><strong>Inside (Trong)</strong></td>
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</tr>
</tbody>
</table>

**Warning** (Cảnh báo)

- **A grounding device is required.** (Tắt công tắc đề)

  **Phai có thiết bị tiếp đất.**

  **Bịp nối mạng điện.**

  **Sản phẩm không hoạt động hoặc ro ri điện có thể gây giữ điện.**

  **Để tránh điện áp, thiết bị sẽ nối mạng điện.**

  **Không được sử dụng** (tiếp)**** |

- **Do not disassemble the product for repair or alteration.** (Giữ sản phẩm)

  **Không được sử dụng** (tiếp)**** |

  **Để tránh điện áp, thiết bị sẽ nối mạng điện.**

- **Use this product at the rated voltage and frequency indicated on the nameplate.** (Giữ sản phẩm)

  **Để tránh điện áp, thiết bị sẽ nối mạng điện.**

  **Sản phẩm không hoạt động hoặc ro ri điện có thể gây giữ điện.**

  **Để tránh điện áp, thiết bị sẽ nối mạng điện.**

  **Không được sử dụng** (tiếp)**** |

- **In case of gas leakage, do not turn on/off this product.** (Giữ sản phẩm)

  **Để tránh điện áp, thiết bị sẽ nối mạng điện.**

  **Sản phẩm không hoạt động hoặc ro ri điện có thể gây giữ điện.**

  **Để tránh điện áp, thiết bị sẽ nối mạng điện.**

  **Không được sử dụng** (tiếp)**** |

- **This may damage the product or result in fire.** (Giữ sản phẩm)

  **Để tránh điện áp, thiết bị sẽ nối mạng điện.**

  **Sản phẩm không hoạt động hoặc ro ri điện có thể gây giữ điện.**

  **Để tránh điện áp, thiết bị sẽ nối mạng điện.**

  **Không được sử dụng** (tiếp)**** |
Do not spray water or any other liquids directly onto this product or clean it with any liquids.

Keep water away from the motor. Do not wash the product or clean the filter with water.

This may damage the product or result in fire. Do not wash the product or clean the filter with water.

When cleaning the louvre, do not put your hand in the louvre gap. This may result in injury.

If the supply cord is damaged, it must be replaced by the manufacturer or its service agent or a similarly qualified person in order to avoid a hazard. The repair of this appliance by other persons may cause injury to persons or damage to the appliance.

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.

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**Routine Maintenance**

**Văn hành và bảo dưỡng định kỳ (Tiếp tục)**

- **Requirement**
  - Routine maintenance is required every year. Disconnect the power source before you conduct any maintenance.
  - Do not immerse blade or other resin parts in hot water over 60°C.
  - Do not use petroil, benzene, thinner or any other such chemicals for cleaning the ventilating fan.

- **Yêu cầu**
  - Bảo dưỡng định kỳ là cần thiết cho hoạt động an toàn và hiệu quả của máy.
  - Không được làm sạch bằng nước nóng trên 60°C.
  - Không được sử dụng xăng, benzene, dung môi hay bất kỳ hóa chất nào để làm sạch quạt thông gió.

**For FV-24JR2 model:**

1. Pull down the mounting spring to the right of the "Panasonic" logo as described in Steps 1 and 2 in the figure.
2. Clean the louver and the sensor cover with a soft dry cloth. Be sure not to add any tension on the sensor lead wire.
3. Clean the dirt from the fan body using a suction cleaner.
4. Wipe the dust off the fan body with a soft cloth moistened with kitchen detergent.

**For FV-24JR2 model:**

1. Đóng cho khóa FV-24JR2:
2. Clean the louver and the sensor cover with a soft dry cloth. Be sure not to add any tension on the sensor lead wire.
3. Do not disassemble the sensor unit from the louver when cleaning.
4. Wipe the dust off the fan body with a soft cloth moistened with kitchen detergent.

---

**Bảo dưỡng định kỳ**

**Bảo dưỡng định kỳ**

- **Installation**
  - Pull down the mounting spring to the right of the "Panasonic" logo as described in Steps 1 and 2 in the figure.
  - Clean the louver and the sensor cover with a soft dry cloth. Be sure not to add any tension on the sensor lead wire.
  - Clean the dirt from the fan body using a suction cleaner.
  - Wipe the dust off the fan body with a soft cloth moistened with kitchen detergent.

**Bảo dưỡng định kỳ**

- **Installation**
  - Pull down the mounting spring to the right of the "Panasonic" logo as described in Steps 1 and 2 in the figure.
  - Clean the louver and the sensor cover with a soft dry cloth. Be sure not to add any tension on the sensor lead wire.
  - Clean the dirt from the fan body using a suction cleaner.
  - Wipe the dust off the fan body with a soft cloth moistened with kitchen detergent.

---

**Maintenance Tips**

- **Maintenance Tips**
  - Clean the louver and the sensor cover with a soft dry cloth.
  - Clean the dirt from the fan body using a suction cleaner.
  - Wipe the dust off the fan body with a soft cloth moistened with kitchen detergent.

---

**Safety Precautions**

- **Safety Precautions**
  - Pull down the mounting spring to the right of the "Panasonic" logo as described in Steps 1 and 2 in the figure.
  - Clean the louver and the sensor cover with a soft dry cloth.
  - Clean the dirt from the fan body using a suction cleaner.
  - Wipe the dust off the fan body with a soft cloth moistened with kitchen detergent.
For FV-24JA2 model: สำหรับรุ่น FV-24JA2

① Pull down the mounting spring as described in Steps 1 and 2 in the figure. and then remove the louver.

ließt sich von der Klemmplatte 1 und 2 abheben

Withdraw the mounting spring

Kéo lại treo đai ra theo các Bước 1 và 2 như hình và tháo cửa sổ.

Removing the mounting spring

② Rinse the louver with water, and then dry it with a soft dry cloth or leave it air dry.

dạt vách ngăn và rửa cho sạch bằng nước, sau đó phơi khô

Rửa cửa sổ bằng nước sạch, và lau khô bằng

Dry to a clean and dry

③ Clean the dirt from the fan body using a suction cleaner.

Lau sạch bụi trên phần quạt bằng máy hút bụi.

Cleaning the dirt from the fan body

④ Wipe the dust off the fan body with a soft cloth moistened with kitchen detergent. Then clean it with a clean cloth. Finally, replace the louver.

Lau sạch bụi trên phần quạt bằng một miếng vải mềm ẩm được tẩm mỡ chén

Wipe dust off the fan body

TROUBLE SHOOTING GUIDE

ĐÀI TÍNH HỎI LỰC SỰ CỐ

Check according to the following table to correct a malfunction if the fan still does not work correctly. Disconnect the power source and contact the dealer.

4. If the fan stops operating, check the air intake and exhaust.
5. If the fan starts operating again, the problem is solved.

PROBLEM ปัญหา | NGUỒN NGŘC สาเหตุ | ACTION hành động | BIỂN PHẠM giải pháp
---|---|---|---
Is the room temperature near the temperature of human body? Nhiệt độ không ổn định

| NGUỒN NGŘC สาเหตุ | Action, check after the room temperature drops.

| BIỂN PHẠM giải pháp | is too close to the human body. | Làm sao để giảm nhiệt độ? | Kiểm tra lại khi nhiệt độ trong phòng giảm.

| BIỂN PHẠM giải pháp | the sense of the sensor slow to the people’s motion? | Không phải thiết bị nào khác | đợt không có tính thời gian.

| BIỂN PHẠM giải pháp | Is the sensor unit dirty? | Bụi bẩn trên thiết bị | làm sạch thiết bị.

| BIỂN PHẠM giải pháp | Is the sensor unit dirty? | Bụi bẩn trên thiết bị | làm sạch thiết bị.

| BIỂN PHẠM giải pháp | Clean the dirt according with “OPERATION AND ROUTINE MAINTENANCE” at page 15 to 18.

| BIỂN PHẠM giải pháp | "VĂN HÀNH VÀ BẢO DƯỠNG ĐỊNH KỲ" ở trang 15 đến 18.

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**WIRING DIAGRAM**

**FV-24JR2**

- **DC Motor**: Black
- **Blue**: Red
- **Red**: Black
- **White**: Green/Yellow
- **Green/Yellow**: White
- **Brown/Blue**: Green
- **Green**: Brown
- **Yellow**: Blue
- **Black**: Green/Yellow
- **Red**: White
- **White**: Black
- **Red**: Green
- **Green**: Blue
- **Blue**: Red
- **N**: Grounding
- **Air Volume Switch**: Not included.
- **Main PCB Assy**: Not included.
- **Sensor**: Not included.

**FV-24JA2**

- **DC Motor**: Black
- **Blue**: Red
- **Red**: Black
- **White**: Green/Yellow
- **Green/Yellow**: White
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- **Blue**: Red
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- **Air Volume Switch**: Not included.
- **Main PCB Assy**: Not included.
- **Sensor**: Not included.

---

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Model</th>
<th>Voltage (V)</th>
<th>Frequency (Hz)</th>
<th>Power Consumption [W]</th>
<th>Air Volume [m³/h]</th>
<th>Noise [dB(A)]</th>
<th>Static Pressure [Pa]</th>
<th>Net Weight [kg]</th>
</tr>
</thead>
<tbody>
<tr>
<td>FV-24JR2/FV-24JA2</td>
<td>220 - 240</td>
<td>50</td>
<td>8.0</td>
<td>160</td>
<td>31</td>
<td>170</td>
<td>2.9</td>
</tr>
<tr>
<td></td>
<td>220 - 230</td>
<td>60</td>
<td>5.2</td>
<td>120</td>
<td>26</td>
<td>170</td>
<td></td>
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<td></td>
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1. The values of rated input, air volume and noise are specified at the static pressure of 0 Pa.
2. The values of noise level is A weighted average sound pressure level, the mean value are measured by our company, within +3 and -7 tolerance.
3. Test method: In the noise test room, measure the noise value at a position 1 m away from the left side/right side/bottom of the sample respectively, and then calculate the average value.
4. The values of air volume are the mid-points of results measured by our company, within ±10% tolerance.
5. Static pressure is the central value of the company's test results when the air volume is 0, with a lower deviation of -10%.

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**THÔNG SỐ KỸ THUẬT**

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1. Các giá trị được thay thế tại áp suất tĩnh là 0 Pa.
2. Giá trị của độ ồn là mức áp lực âm thanh trung bình đơn vị A, giá trị trung bình là công ty chúng tôi đo với sai số từ ±3 đến -7.
3. Phương pháp kiểm tra: Trong phòng kiểm tra tiếng ồn, máy đo giá trị tiếng ồn tại vị trí trên cạnh trái/phải của máy và sau độ tĩnh giá trị trung bình.
4. Giá trị của luồng gió ở mức giao di động theo kết quả mà chúng tôi đo đạc với sai số ±10%.
5. Áp suất tĩnh là giá trị chính trong kết quả kiểm tra của công ty khỏi khoảng khi l向下, với mức sai lệch là ±10%.

---

* Các thông số ở trên có thể thay đổi mà không báo trước.
### AMCA SPECIFICATIONS

#### AMCA

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The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311.

- The Watts rating is only for AMCA test method and it is at the static pressure of 0 inch of H2O.
- The Watts rating is only for IEC test method.

The AMCA specifications for the FV-24JR2 and FV-24JA2 models are as follows:

- **CFM (cubic feet per minute)**
- **Sones**
- **Power consumption**

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