Trial Operation

When the installation work is complete, it is advised to re-check both the wiring and the fixing of the unit so that this product operates correctly with no vibration or noise.

Operation

1. Turn the power switch ON. (Press the U side.)
2. Set the air volume switch on High or Low, whichever you prefer. (Press the ON/OFF switch)
3. Move the outlet louver and adjust the air direction. (When adjusting the louver, do not use a tool or other implement.) The outlet louver can be adjusted by approximately 20° on the inside and the outside units.
4. To stop the air curtain, turn the power switch OFF. (Press the O side.)

Maintenance

The Air Curtain should be cleaned when it gets dirty – roughly once every three months as a general rule. Also, be sure to clean and test run the Air Curtain before starting operation for the summer and winter seasons.

- Always switch power off before cleaning the unit.
- If there is dirt on the front panel, remove it with a vacuum cleaner. Also, if the inside of this product is extremely dirty, clean it off with a feather duster, etc.

- Do not use solvents such as the following to clean the unit:
  - Paint thinner, alcohol, gasoline, kerosene, aerosol sprays, alkaline solvents, or chemicals in chemically treated cleaning cloths. (Surface deterioration or discoloration could result.)

Reassembly and Inspection after Cleaning

When cleaning is finished, reverse the disassembly steps to reassemble the unit.

1. Take out the two screws used to install the front panel.
2. Pull the front part of the front panel, then lift it up and off the hooks on the unit’s body and remove it.
3. Take off the nuts, then pull the blades off the fan motor shafts.

Specifications

<table>
<thead>
<tr>
<th>TYPE</th>
<th>Power Source</th>
<th>Speed control</th>
<th>Input (W)</th>
<th>Maximum load current(A)</th>
<th>Air volume (m³/h)</th>
<th>Noise (dB)</th>
<th>Starting current (A)</th>
<th>Weight (kg)</th>
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<tbody>
<tr>
<td>GK-3506SA</td>
<td>single phase</td>
<td>165-175</td>
<td>0.75-0.75</td>
<td>16-17.5</td>
<td>100-150</td>
<td>64.5-66.5</td>
<td>1.4</td>
<td>13</td>
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<tr>
<td>GK-3509SA</td>
<td>single phase</td>
<td>165-180</td>
<td>1.1-1.1</td>
<td>16-17.5</td>
<td>2160-2340</td>
<td>60-650</td>
<td>2.1</td>
<td>20</td>
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<tr>
<td>GK-3512SA</td>
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<td>335-355</td>
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<td>2980-3120</td>
<td>80-867</td>
<td>2.8</td>
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</table>

After-Sales Service

Please contact the dealer from whom the unit was purchased concerning after-sales service.

MITSUBISHI ELECTRIC CORPORATION

OPERATING AND INSTALLATION INSTRUCTIONS

Be sure to read this instruction manual before starting installation work. Installation work must be carried out by a dealer or a specialist installation contractor.

- This is a single-phase product. Check the power supply before proceeding with the installation work.

- After reading this information, keep it in a place where any person using the product can refer to it at any time.

**Essential Safety Precautions**

Please be absolutely sure to read through the following information: it will help you to install the Air Curtain correctly and safely and to operate it properly.

The precautions presented here contain important safety information: be sure to follow the applicable instructions given.

- The graphic symbols have the following significance:
  - **Prohibited**
  - **Do not use water where water is present.**
  - **You must follow the instructions given.**
  - **Beware of rotating objects.**
  - **Do NOT disassemble.**
  - **Do NOT touch.**
  - **Grounding is required.**

**WARNINGS**

This applies to mishandling or misoperation of the product which may lead to a fatal or serious injury.

- **Do not touch the moving parts.** (You may injure yourself.)
- **Do not poke your fingers or any objects into the air outlet ports or moving parts during operation since this is dangerous.** (You may injure yourself.)
- **If operation stops while the power is still switched on, do not touch the product under any circumstances.** (There is a danger that the unit could suddenly start operating again and cause injury. There is also a danger of electrical shock.)
- **Do not attempt remodelling under any circumstances. Disassemble and repair are permitted only by qualified repair engineers.** (The product may cause fire, electrical shock and/or injury)
- **Do not apply water to the product or splash water onto it.** (Short-circuiting or electrical shock may be caused.)
- **Do not use the product where the combustion area of its combustion device will be directly exposed to wind or air movement.** (This may cause incomplete combustion or result in the flames being extinguished, leading to carbon monoxide poisoning.)
- **When passing the product and metal ducts connected to the product through wooden buildings lined or covered with metal or wire laths or with metal sheets, install the product and ducts in such a way that they will not make electrical contact with the metal or wire laths or metal sheets. (Ignition may occur if there are power leaks.)**
- **Before proceeding with maintenance work, be absolutely sure to set the circuit-breaker on the power board to the OFF position. In addition, do not perform the work with wet hands.** (Electrical shock or injury may result.)
- **Ground the product properly.** (Electrical shock may be caused in case of malfunctioning or power leaks.)
**Mounting Method**

Mounting locations and surfaces differ, but in any case make sure that the unit is mounted sufficiently securely and that it is level.

**NOTE**

- In the case of a standard installation (with the unit mounted horizontally), install it so that the air outlet is facing downward.
- If there is a wall on the side of the air curtain, install the wall mounting plate 40 mm or more from the wall. Otherwise, the air curtain’s body will hit the side wall and you will not be able to install it.
- If multiple units are being installed continuously, install the mounting plates at an interval of 80~95 mm from each other.
- If you are mounting the air curtain on a wall, leave a gap of 55 mm or more from the ceiling to the mounting plate. If it is closer than that, the unit will hit against the ceiling and you will not be able to install it.

**Installing the Wall mounting plate**

1. Remove the two mounting screws from the unit body, then remove the wall mounting plate from the unit body.
2. Run the vinyl cabtyre cable through the U groove.

**Installing the Unit**

1. Insert the hook fitting on the back of the unit into the holder on the wall mounting plate, lowering it until it stops.
2. Fasten the unit to the wall mounting plate securely using the 2 screws provided.

**Wiring**

- Make wiring connections for the parts indicated by bold lines in the connection diagram.
- When selecting a motor circuit breaker, use a value of 1.2 to 1.5 times that of the load current listed in the specifications.
- Use 0.75 mm² wire, and use a 1.25 mm² or larger ground wire. If multiple units are operated, connect them to electric wiring which has a capacity that can handle the total current value.