This air-to-air heat exchange unit complies with EMC directive 2004/108/EC, LV directive 2006/95/EC.

Ce conditionneur est conforme à la directive EMC: 2004/108/EC, LV directive 2006/95/EC.

Questo scambiatore di calore aria-aria è conforme alla direttiva EMC: 2004/108/EC, LV directive 2006/95/EC.

Esta unidad de intercambio de calor aire-aire de aire cumple con las exigencias del EMC: 2004/108/EC, directiva LV 2006/95/EC.

Dieser Luft-Luft-Wärmetauscher erfüllt die Richtlinien 2004/108/EG und 2006/95/EG.
Thank you very much for having purchased our “Mitsubishi Daiya Air-to-air heat exchange unit”.
Please read through this instruction manual with care so that you can use the unit correctly.
After reading it, please keep it so you can read it whenever necessary.
Please refer to the manual for questions on use or in the event that any irregularities occur.

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Cautions on Safety

Never Fail to Observe

Described below are the way we are stimulating your attention to what you are supposed to observe to prevent dangers to the users or other people as well as loss to the property.

- The degrees of danger or damage that is likely to occur due to the wrong use ignoring the indications are categorized for explanation as marked below.

<table>
<thead>
<tr>
<th>Caution Level</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>DANGER</strong></td>
<td>Indicates “Impending risk of death or serious injury.”</td>
</tr>
<tr>
<td><strong>WARNING</strong></td>
<td>Indicates “Risk of death or serious injury.”</td>
</tr>
<tr>
<td><strong>CAUTION</strong></td>
<td>Indicates “Risk of minor injury or property damage.”</td>
</tr>
</tbody>
</table>

Kinds of the items to be observed are categorized for clarification with the following pictorial symbols.

(The marks described below are samples.)

- This pictorial indication shows “Prohibited”.
- This pictorial indication shows “Forced Execution”.

Cautions for Operation

**DANGER**

- **Do not use as an air circulators for open-type burners(heaters).**
  - Prohibited
  - When gas or oil stoves are used in the home, separate equipment for circulating the air should be used.

- **When any abnormal condition (scorching smell or others) is found, stop the operation immediately and switch the exclusive circuit breaker “OFF”**.
  - If you continue the operation without removing the cause, it could cause an electric shock or a fire.
    - When the system needs a repair, consult your dealer.

**WARNING**

- **Don’t push a finger or a stick into the air inlet or the outlet.**
  - A fan with a high rpm will injure you.
  - Prohibited
  - **Modification of the system is strictly prohibited.**
  - Improper practice of repair could cause a water leakage, an electric shock or a fire.
  - Prohibited
  - When the system needs a repair, consult your dealer.

- **Do not use the room air intake opening at a position where it may suck in hot or humid air.**
  - Doing so may affect the inside of the product, resulting in electric shock or fire.

- **Do not insert fingers or sticks even if air blower does not operate.**
  - It may suddenly operate and cause injuries.

- **If there is a combustible gas leakage from other appliances, ventilate the room by opening windows.**
  - If operation were to be attempted in such a situation, sparking at electrical contact points could cause an explosion.

- **Netting or something similar should be provided at the external air intake opening to prevent birds etc. interfering with the unit.**
  - Nests or other foreign objects should be removed. That could lead to a lack of oxygen in the room.

- **If the unit has been submerged under water due to a natural disaster such as flood or typhoon, consult your dealer before using it again.**
  - If you use it as it stands, it may lead to failure, electric shock or fire.
Cautions on Safety

Never Fail to Observe

Cautions for Installation

![WARNING]

- When the air-to-air heat exchange unit are relocated, contact your dealer or a professional installer.
  
  ![Prohibited]

  Improper practice of installation could cause a drop of the unit, a water leakage, an electric shock or a fire.

  - Ask the sales office or the engineering shop to perform the work.

- The external air intake opening should be positioned away from the exhaust openings of combustion gases etc.

  ![Prohibited]

  The intake of such gases could lead to a lack of oxygen in the room.

- The system should be applied to places as office, restaurant, residences and the like.

  ![Prohibited]

  Application to inferior environment such as an engineering shop, could cause equipment malfunction and serious injury or death.

Cautions for Maintenance

![WARNING]

- When the system is checked and the power cable undergoes maintenance, stop the operation, and switch the exclusive circuit breaker “OFF”.

  ![Prohibited]

  The internal fan is revolving at high speeds and can cause serious injury. And when using a stepladder, etc., make sure to fix it property.

- It is strictly prohibited to place a container of combustible gas or liquid near the air-to-air heat exchange unit or to spray it directly with the gas or liquid.

  ![Prohibited]

  It could cause a fire.

- Do not use outside the rated voltage.

  ![Prohibited]

  It could cause a fire or an electric shock.

- Do not blow directly towards animals or plants.

  ![Prohibited]

  Likely to cause bad effect on animals and plants.

- Don’t put a container of water on air-to-air heat exchange unit.

  ![Prohibited]

  When water spills, it is likely to enter inside the unit and degrade electric insulation, possibly resulting in an electric shock.

Cautions for Operation

![CAUTION]

- Combustion apparatus should not be placed allowing a direct exposure to wind of the air-to-air heat exchange unit.

  ![Prohibited]

  Incomplete combustion could occur on the apparatus.

- Don’t blow directly towards animals or plants.

  ![Prohibited]

  It could cause an electric shock.

- Do not wash the air-to-air heat exchange unit with water.

  ![Prohibited]

  It could cause an electric shock.

- Do not handle switches with a wet hand.

  ![Prohibited]

  It could cause an electric shock.

- If the air-to-air heat exchange unit are not used for a long period of time, switch the exclusive circuit breaker “OFF” for safety reasons.

  ![Prohibited]

  If the power is left on, any build-up of dust could cause a heat generation or a fire.
Cautions on Safety

Cautions for Operation

- The system should never be used for any other purposes than intended such as for preservation of foods, animals and plants, precision devices or work of art.
- It could cause deterioration of foods or other problems.

- When the room is heated in winter, do not operate the ventilator in “normal ventilation” mode.

- Do not use the power switch to turn on or off the system.

- During the operation or maintenance, do not use an unstable footrest.

- Do not strain the remote control cord.

- During thunderstorm, stop the operation and turn off the switch.

- Do not use the unit where powder or fiber is floating.

- CAUTION

Cautions for Installation

- Do not install in locations where harmful or corrosive gases may be present (e.g., acidic, alkali, organic solvent, paint gases, etc. from machinery or factories).

- Installation in such a location could cause a gas-poisoning and a fire.

- Prohibited

- Depending on the place of installation, a circuit breaker may be necessary.

- Unless the circuit breaker is installed, it could cause electric shocks.

- Do not install in locations where oily smoke or soot may be present.

- There is a possibility that oil will adhere to the filter, heat exchange element etc. and make operation impossible.

- Prohibited

- Make sure to use a fuse of proper electric rating.

- Prohibited

- Use of steel or copper wire in place of a fuse is strictly prohibited because it could result in a trouble or fire accident.

- Prohibited

- Do not install in locations with high humidity, such as close to bathroom etc.

- Installation in such a location could cause an electric shock or a breakdown.

- Prohibited

- Check occasionally the support structure of the unit for any damage after a use of long period of time.

- Prohibited

- If the structure is not repaired immediately, the unit could topple down to cause a personal injury.
Cautions on Safety

Never Fail to Observe

Cautions for Installation

- Make sure the system is grounded.

![Grounding symbol]

Grounding cable should never be connected to a gas pipe, city water pipe, lightning conductor rod or grounding cable of telephone. If the grounding cable is not set properly, it could cause electric shocks.

- Do not install the product in an environment where the room temperature may be significantly lower than the outside temperature.

![No symbol]

Doing so may result in electric shock or fire.

- Be sure to ask a specialized installation service shop to carry out installation work.

Otherwise, personal injury could result.

Cautions for Maintenance

- Remove a product if it is not being used. Do not leave the disused product as it is.

![Warning symbol]

The disused product might drop, causing personal injury.

- When cleaning filters or heat exchange elements, be sure to turn off the switch and turn the dedicated breaker to the “Off” position in advance.

![Warning symbol]

As the fan rotates inside at high speed, failure to do so may result in personal injury. When working in an elevated position, firmly secure the step ladder.

- The filter should be cleaned regularly.

![Warning symbol]

Dust or dirt build-up on it can lead to a lack of oxygen in the room.

- Use gloves when cleaning the filter or heat exchange element.

![Warning symbol]

Doing so will reduce the possibility of injury.
# Request

## Checking Install Location

This air-to-air heat exchange unit is designed to be used in offices or conference rooms. The main unit and the room air intake opening (supply/exhaust air grill) cannot be used in the following locations.

<table>
<thead>
<tr>
<th>Location</th>
<th>Description</th>
<th>Illustration</th>
</tr>
</thead>
<tbody>
<tr>
<td>An area subject to high temperatures or exposed to direct flame</td>
<td>Avoid a location where the temperature in the vicinity of the air-to-air heat exchange unit and cassette type louver rises to 40 °C or higher. Using the product in areas subject to such high temperatures may cause deformation of a filter or heat exchange element, or combustion loss of the motor.</td>
<td>![Image of high temperature warning]</td>
</tr>
<tr>
<td>A humid area</td>
<td>Do not use the product in the bathroom or an area subject high humidity or where steam is generated. Doing so may cause dew to form inside the main unit, resulting in electric shock or fire, or cause dew to drop.</td>
<td>![Image of humid area warning]</td>
</tr>
<tr>
<td>A cooking room or other area containing thick greasy fumes</td>
<td>Grease may be attached to filters or heat exchange elements, rendering the product inoperable.</td>
<td>![Image of cooking area warning]</td>
</tr>
</tbody>
</table>

- For details about install locations and installation, consult your sales representative or installation service shop.
- If you assume inverse rotation caused by adverse wind, we recommend that you install an “Electric damper” (to be procured separately) to prevent air from entering.

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**CAUTION**

### Intrusion of bugs, etc.

- If you want to stop the ventilator to prevent bugs and other insects from entering, be sure to switch the mode to “energy recovery” first, and then turn off the operation switch to stop the ventilator. Even when you use the ventilator in “normal ventilation” mode, switch the mode to “energy recovery” first, wait for at least 30 seconds, and then turn off the operation switch to stop the ventilator. If you stop the ventilator in “normal ventilation” mode, the dampers will not be switched and bugs and other insects may enter into the room.

- In order to suck fresh air into the room, this product is equipped with a rough filter in the air supply portion. However, in an environment containing many bugs or that has light that attracts bugs and other insects near the outside air openings, the rough filter cannot block bugs, and they may enter through gaps around the filter and gaps in the main unit.

- When fog or humid air is sucked in, dew may form inside the main unit, and dew may leak from the main unit. If this occurs, stop the ventilator.
We have confirmed that dew does not drop out of this air-to-air heat exchange unit in the following condition based on JIS. If the product is used in harsher conditions, dew may form and drip out.

**JIS B 8628 Total heat exchanger Attachment 5 (Regulation) Dew condensation test procedure**

<table>
<thead>
<tr>
<th>Classification</th>
<th>Indoor conditions</th>
<th>Outdoor conditions</th>
<th>Operating status</th>
<th>Test duration (h)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Dry bulb temp.</td>
<td>Wet bulb temp.</td>
<td>Dry bulb temp.</td>
<td>Wet bulb temp.</td>
</tr>
<tr>
<td>Cooling in summer</td>
<td>22±1</td>
<td>17±2</td>
<td>35±1</td>
<td>29±2</td>
</tr>
<tr>
<td>Heating in winter</td>
<td>20±1</td>
<td>14±2</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Heating in winter</td>
<td>20±1</td>
<td>14±2</td>
<td>–</td>
<td>–</td>
</tr>
</tbody>
</table>

**Usage instructions**

Be sure to use filters. Otherwise, heat exchange elements may become clogged with dust and dirt, which may lead to efficiency deterioration and render heat exchange elements inoperable.

Ensure the operation switch is handled correctly. In particular, avoid rapid re-switching operations as it may cause a malfunction and adversely affect the switch and electrical components in the main unit, resulting in failure.

Never operate the on “Normal ventilation” during the winter when the room is being heated, as this will cause condensation to form inside the unit and in the inlet-outlet vent.
Features

1. Energy-saving ventilation
   This product efficiently retrieves thermal energy (outdoor air load) lost by ventilation, allowing you to save cooling and heating costs.

2. Facility size reduction
   As this product drastically reduces the outdoor air load, your cooling and heating equipment can be downsized corresponding to the retrievable thermal energy level.

3. Moisture adjustment
   During cooling operations, this product adjusts the humidity level of humid outdoor air to be closer to the humidity level of dehumidified (cooled) indoor air, and supplies the air. During heating operations, this product adds indoor moisture to dry outdoor air and adjusts the humidity to be closer to that of indoor humidity, and supplies the air.

4. Comfortable ventilation
   This product can minimize the fluctuation of room temperature for ventilation purposes. As air supply and exhaust take place simultaneously, you can expect stable ventilation even in a room with less air circulation.

5. Sound insulation
   Air trunks of the main unit and heat exchange elements are designed for sound insulation. The structure blocks intrusion of outdoor noise and leakage of indoor sound, and thus does not damage office or shop environments.

Ventilation modes

- Energy recovery............Supplies outdoor air to a room by exchanging heat between outdoor air and room air to adjust the outdoor temperature and humidity closer to that of indoor conditions.
- Normal ventilation........Supplies outdoor air to a room without exchanging heat between outdoor air and room air.
Part Names (Position of Model Number Display)

SAF150E6
SAF250E6
SAF350E6
SAF500E6
SAF650E6
SAF800E6
SAF1000E6

<table>
<thead>
<tr>
<th>Model No.</th>
<th>A</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>SAF150E6</td>
<td>970</td>
<td>467</td>
<td>270</td>
</tr>
<tr>
<td>SAF250E6</td>
<td>882</td>
<td>599</td>
<td></td>
</tr>
<tr>
<td>SAF350E6</td>
<td>1050</td>
<td>804</td>
<td>317</td>
</tr>
<tr>
<td>SAF500E6</td>
<td>1090</td>
<td>904</td>
<td></td>
</tr>
<tr>
<td>SAF650E6</td>
<td>1204</td>
<td>884</td>
<td>388</td>
</tr>
<tr>
<td>SAF800E6</td>
<td>1322</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SAF1000E6</td>
<td>1134</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note) Dimensions do not include suspension fittings.

Switches (Accessory)

- **SAF-REMOC-E**
  - (Metal plate)
  - Operation indicator
  - Operation switch
  - Air volume adjusting switch
  - Function select switch

- **Switches**
  - □ 450 Inspection opening
  - Maintenance space
  - 600
  - 70
  - 120
  - 70

EA (Exhaust Air)  OA (Outside Air)

Heat exchange element
Filters
Inspection opening
Maintenance space

Unit: mm
1. **Operation indicator**
   The operation indicator lights up while the ventilator is running. The operation indicator turns off when the ventilator stops.

2. **Operation switch**
   Turn the operation switch to the “1” (On) position to start operation.
   Turn the operation switch to the “0” (Off) position to stop operation.

3. **Air volume adjusting switch**
   Select either “High” air volume or “Low” air volume.

4. **Function select switch**
   Select either “HEAT EXCH.” (Energy recovery) or “NOML VENT.” (Normal ventilation) according to the season.

<table>
<thead>
<tr>
<th>Function select switch</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>For cooling/heating in summer/winter</td>
<td>Select “HEAT EXCH.” (Energy recovery)</td>
</tr>
<tr>
<td>For middle seasons spring/autumn</td>
<td>Select “NOML VENT.” (Normal ventilation)</td>
</tr>
</tbody>
</table>

---

**Caution**

When the room is heated in winter, do not operate the ventilator in “normal ventilation” mode. Doing so may cause dew to form, resulting in electric shock or fire.

---

**Request**

• In order to prevent bugs from entering when stopping the operation, first operate the ventilator in the energy recovery mode for at least 30 seconds, and then turn the switch to the “Off” position to stop operation.

**Information**

• Heat exchange elements may emit odor when you use them for the first time. This phenomenon is normal and does not indicate an abnormality or a failure.
## Maintenance Procedure

When running the air-to-air heat exchange unit over the long term, dust and dirt accumulated in filters may cause ventilation air volume to decrease and, as a result, efficiency of ventilation may decrease, or abnormal sounds or abnormal vibration may be noticed. Clean off dust and dirt attached to filters and heat exchange elements periodically according to the level of contamination.

### Request

<table>
<thead>
<tr>
<th>Before cleaning, be sure to turn off the operation switch and turn the dedicated breaker to the “Off” position.</th>
<th>Do not put filters and other resin parts in hot water at 60 °C or higher temperature.</th>
<th>Never splash water on the motor, switches, or heat exchange elements.</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Switch" /></td>
<td><img src="image" alt="Water at 60 deg C or higher temperature" /></td>
<td><img src="image" alt="Water at 60 deg C or higher temperature" /></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Do not use the following items.</th>
<th>Never use open flame to dry the filters. Doing so may cause deformation or otherwise alter the filter.</th>
<th>Be sure to use filters. Otherwise, heat exchange elements may become clogged with dust and dirt, which may lead to efficiency deterioration and render heat exchange elements inoperable.</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Metallic scrub brush" /></td>
<td><img src="image" alt="Filter" /></td>
<td><img src="image" alt="Heat exchange elements" /></td>
</tr>
</tbody>
</table>

- Do not put filters and other resin parts in hot water at 60 °C or higher temperature.
- Never use open flame to dry the filters. Doing so may cause deformation or otherwise alter the filter.
- Be sure to use filters. Otherwise, heat exchange elements may become clogged with dust and dirt, which may lead to efficiency deterioration and render heat exchange elements inoperable.
Maintenance Procedure (Continued)

SAF150E6, SAF250E6, SAF350E6, SAF500E6

- Be sure to turn off the operation switch and turn the dedicated breaker to the “Off” position.

- Filter maintenance
  (Clean filters once or twice per year.)

  1. Using a cross-head screwdriver, remove the screw.
  2. Enter the roof space through the energy recovery ventilator inspection opening. While holding the inspection cover in one hand, rotate two knobs to adjust their orientations as shown in the figure at right. Open the inspection cover by about 90 degrees, lift it up slightly and remove it from the hook.
  3. A filter is installed in each of two positions. Pull it forward to remove it.
  4. Softly tap the removed filter using one hand, or use the cleaner to remove dust and dirt. If the filter is highly contaminated, wash it with the solution of lukewarm water and neutral detergent.
  5. Dry the filter sufficiently, and then install it.

Request

Never use open flame to dry the filter. Doing so may cause deformation or otherwise alter the filter.

- If a filter is broken, contact your sales representative or installation service shop.

- Maintenance of heat exchange elements
  (Clean them if they are extremely contaminated)

  1. First remove filters.
  2. Pull out the heat exchange elements from the main unit.

SAF350E6 or SAF500E6 has two heat exchange elements.

Request

You must hold the heat exchange element securely. Note the masses of heat exchange elements as shown in the following.

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Mass (kg/piece)</th>
<th>Qt’y used</th>
</tr>
</thead>
<tbody>
<tr>
<td>SAF150E6</td>
<td>3.4</td>
<td>1</td>
</tr>
<tr>
<td>SAF250E6</td>
<td>4.5</td>
<td>1</td>
</tr>
<tr>
<td>SAF350E6</td>
<td>3.4</td>
<td>2</td>
</tr>
<tr>
<td>SAF500E6</td>
<td>3.7</td>
<td>2</td>
</tr>
</tbody>
</table>
③ Suck dust and dirt on the surface using the cleaner nozzle.

**Request**

- Gently apply the cleaner nozzle to the surface. Applying the nozzle using excessive force may crush the mesh of the heat exchange element.
- Never use water to wash the heat exchange element.

If a heat exchange element is broken, contact your sales representative or installation service shop.

④ When you complete the cleaning process, return the heat exchange element or filter to its original position.

**Request**

- Be sure to install filters. Otherwise, heat exchange elements may become clogged, which may cause efficiency to deteriorate.
- Insert the heat exchange element so that the arrow mark faces up. (If you install the main unit upside down, insert the heat exchange element so that the arrow mark faces down.)

⑤ While holding the inspection cover for the air-to-air heat exchange unit in one hand, fasten the knob and adjust its orientation as shown in the figure at right.

**Request**

- If the knob is not fastened sufficiently, air may leak or the inspection cover may come off.

⑥ Install and fasten screw that was removed in Step (1).
SAF650E6, SAF800E6, SAF1000E6

Be sure to turn off the operation switch and turn the dedicated breaker to the “Off” position.

Filter maintenance
(Clean filters once or twice per year.)

1. Using a cross-head screwdriver, remove the screw.
2. Enter the roof space through the air-to-air heat exchange unit inspection opening. While holding the inspection cover in one hand, rotate two knobs to adjust their orientations as shown in the figure at right. Open the inspection cover by about 90 degrees, lift it up slightly and remove it from the hook.
3. A filter is installed in each of two positions. Pull it forward to remove it.
4. Softly tap the removed filter using one hand, or use the cleaner to remove dust and dirt. If the filter is highly contaminated, wash it with the solution of lukewarm water and neutral detergent.
5. Dry the filter sufficiently, and then install it. (Align the filter with the rail groove and insert it.)

Request

Never use open flame to dry the filter. Doing so may cause deformation or otherwise alter the filter.

If a filter is broken, contact your sales representative or installation service shop.

Maintenance of heat exchange elements
(Clean them if they are extremely contaminated)

1. Pull the heat exchange element out of the main unit. SAF650E6 or SAF800E6 has three heat exchange elements, and SAF1000E6 has four.
2. Hold the heat exchange element with both hands as shown in the figure at right, and gently pull it out. Note that pulling it out using excessive force may damage the exterior (foam polystyrene).

Request

Do not hold the PP band when pulling out the heat exchange element. Doing so may loosen the PP band and cause air to leak out.
If a heat exchange element is broken, contact your sales representative or installation service shop.

③ Suck dust and dirt on the surface using the cleaner nozzle.

- Gently apply the cleaner nozzle to the surface. Applying the nozzle using excessive force may crush the mesh of the heat exchange element.
- Never use water to wash the heat exchange element.

④ When you complete the cleaning process, return the heat exchange element to its original position.

- Be sure to insert the heat exchange element correctly so that the “Front” label comes to the front.

⑤ While holding the inspection cover for the air-to-air heat exchange unit in one hand, fasten the knob and adjust its orientation as shown in the figure at right.

- If the knob is not fastened sufficiently, air may leak or the inspection cover may come off.

⑥ Install and fasten screw that was removed in Step (1).

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Mass (kg/piece)</th>
<th>Qt’y used</th>
</tr>
</thead>
<tbody>
<tr>
<td>SAF650E6</td>
<td>3.3</td>
<td>3</td>
</tr>
<tr>
<td>SAF800E6</td>
<td>4.0</td>
<td>3</td>
</tr>
<tr>
<td>SAF1000E6</td>
<td>4.0</td>
<td>4</td>
</tr>
</tbody>
</table>
If a failure is suspected...

Check the ventilator based on the following table. If you find an abnormality, be sure to turn off the operation switch, then turn the dedicated breaker to the “Off” position, and contact your sales representative or installation service shop regarding repairs or checking.

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Items to be checked</th>
</tr>
</thead>
<tbody>
<tr>
<td>● The air-to-air heat exchange unit does not work even when the operation switch is turned on.</td>
<td>● Tripped breaker</td>
</tr>
<tr>
<td>● Air is not supplied from the ventilator.</td>
<td>● Power failure</td>
</tr>
<tr>
<td></td>
<td>● Dust accumulated on filters or heat exchange elements</td>
</tr>
<tr>
<td></td>
<td>(Remove dust according to Maintenance Procedure, pages 11 to 15.)</td>
</tr>
</tbody>
</table>

If the symptoms have not improved even after the above actions have been implemented, or if other symptoms are found, contact your sales representative for details.

About After-Sales Service

Request for inspection

For optimal and safe use of the product, we recommend that you conclude a maintenance agreement with us. Besides the usual maintenance operations, we also recommend that periodical inspections and maintenance be carried out. For more information, please contact your sales representative or installation service shop.

Minimum holding period for repair performance parts

The minimum holding period of repair performance parts for the air-to-air heat exchange unit is 10 years after the product has been discontinued. The repair performance parts are required in order to maintain product functions.
## Specifications

<table>
<thead>
<tr>
<th>Item</th>
<th>Model No. SAF150E6</th>
<th>SAF250E6</th>
<th>SAF350E6</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Power Source</strong></td>
<td>220-240V~ 50Hz</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Ventilation Mode</strong></td>
<td>Heat Exchange Ventilation</td>
<td>Normal Ventilation</td>
<td></td>
</tr>
<tr>
<td><strong>Notch</strong></td>
<td>(Extra high) High Low</td>
<td>(Extra high) High Low</td>
<td></td>
</tr>
<tr>
<td><strong>Input (W)</strong></td>
<td>97-114 92-107 69-77</td>
<td>112-128 108-123 87-96</td>
<td>182-190 178-185 175-168</td>
</tr>
<tr>
<td><strong>Air Volume (m³/h)</strong></td>
<td>150 150 120</td>
<td>250 250 190</td>
<td>350 350 240</td>
</tr>
<tr>
<td><strong>External Static Pressure (Pa)</strong></td>
<td>80 70 25</td>
<td>105 95 45</td>
<td>140 60 45</td>
</tr>
<tr>
<td><strong>Noise (dB)</strong></td>
<td>28.5-29.0 28.0-29.0 19.5-21.5</td>
<td>30.0-31.5 29.5-30.5 23.5-26.5</td>
<td>32.5-33.0 30.5-31.0 22.5-25.5</td>
</tr>
<tr>
<td><strong>Temperature Exchange Efficiency (%)</strong></td>
<td>75 75 77</td>
<td>— — —</td>
<td>75 75 78</td>
</tr>
<tr>
<td><strong>Dimensions(mm)</strong></td>
<td>Width 970 × Depth 467 × Height 270</td>
<td>Width 882 × Depth 599 × Height 270</td>
<td>Width 1050 × Depth 804 × Height 317</td>
</tr>
<tr>
<td><strong>Weight (kg)</strong></td>
<td>25</td>
<td>29</td>
<td>49</td>
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</table>

The above values are measured under the external static pressure.

• Noise values are measured at 1.5 m below the center of the main unit (measured in the anechoic room).

• The notch is set to “High” or “Extra high” depending on the operating environment.
<table>
<thead>
<tr>
<th>Item</th>
<th>Model No.</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Source</td>
<td></td>
<td>220-240V~ 50Hz</td>
<td></td>
</tr>
<tr>
<td>Ventilation Mode</td>
<td>Heat Exchange Ventilation</td>
<td>Normal Ventilation</td>
<td></td>
</tr>
<tr>
<td>Notch</td>
<td>(Extra high)</td>
<td>High</td>
<td>Low</td>
</tr>
<tr>
<td>Input (W)</td>
<td>263-289</td>
<td>204-225</td>
<td>165-185</td>
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<tr>
<td>Air Volume (m³/h)</td>
<td>500</td>
<td>500</td>
<td>440</td>
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<tr>
<td>External Static Pressure (Pa)</td>
<td>120</td>
<td>60</td>
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<tr>
<td>Noise (dB)</td>
<td>36.5-37.5</td>
<td>34.5-35.5</td>
<td>31.0-32.5</td>
</tr>
<tr>
<td>Temperature Exchange Efficiency(%)</td>
<td>75</td>
<td>75</td>
<td>76</td>
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<tr>
<td>Dimensions(mm)</td>
<td>Width 1090 × Depth 904 × Height 317</td>
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<td>Weight (kg)</td>
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<td>Ventilation Mode</td>
<td>Heat Exchange Ventilation</td>
<td>Normal Ventilation</td>
<td></td>
</tr>
<tr>
<td>Notch</td>
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<td>High</td>
<td>Low</td>
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<td>Input (W)</td>
<td>326-347</td>
<td>269-295</td>
<td>200-210</td>
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<tr>
<td>Air Volume (m³/h)</td>
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<td>650</td>
<td>460</td>
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<td>34.5-35.5</td>
<td>30.0-32.0</td>
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<tr>
<td>Temperature Exchange Efficiency(%)</td>
<td>75</td>
<td>75</td>
<td>79</td>
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<tr>
<td>Dimensions(mm)</td>
<td>Width 1204 × Depth 884 × Height 388</td>
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<td>Weight (kg)</td>
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<tbody>
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<td>Power Source</td>
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</tr>
<tr>
<td>Ventilation Mode</td>
<td>Heat Exchange Ventilation</td>
<td>Normal Ventilation</td>
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</tr>
<tr>
<td>Notch</td>
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<tr>
<td>Input (W)</td>
<td>387-418</td>
<td>360-378</td>
<td>293-295</td>
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<tr>
<td>Air Volume (m³/h)</td>
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<td>800</td>
<td>630</td>
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<tr>
<td>External Static Pressure (Pa)</td>
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<td>110</td>
<td>55</td>
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<td>Noise (dB)</td>
<td>37.0-37.5</td>
<td>36.5-37.0</td>
<td>33.5-34.5</td>
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<tr>
<td>Temperature Exchange Efficiency(%)</td>
<td>75</td>
<td>75</td>
<td>76</td>
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<td>Dimensions(mm)</td>
<td>Width 1322 × Depth 884 × Height 388</td>
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<td>Weight (kg)</td>
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<td>Power Source</td>
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<td>220-240V~ 50Hz</td>
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</tr>
<tr>
<td>Ventilation Mode</td>
<td>Heat Exchange Ventilation</td>
<td>Normal Ventilation</td>
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</tr>
<tr>
<td>Notch</td>
<td>(Extra high)</td>
<td>High</td>
<td>Low</td>
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<tr>
<td>Input (W)</td>
<td>437-464</td>
<td>416-432</td>
<td>301-311</td>
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<tr>
<td>Air Volume (m³/h)</td>
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<td>1000</td>
<td>700</td>
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<tr>
<td>External Static Pressure (Pa)</td>
<td>105</td>
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<td>Noise (dB)</td>
<td>37.5-38.5</td>
<td>37.0-37.5</td>
<td>33.5-34.5</td>
</tr>
<tr>
<td>Temperature Exchange Efficiency(%)</td>
<td>75</td>
<td>75</td>
<td>79</td>
</tr>
<tr>
<td>Dimensions(mm)</td>
<td>Width 1322 × Depth 1134 × Height 388</td>
<td></td>
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<tr>
<td>Weight (kg)</td>
<td>83</td>
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</tr>
</tbody>
</table>

The above values are measured under the external static pressure.
• Noise values are measured at 1.5 m below the center of the main unit (measured in the anechoic room).
• The notch is set to “High” or “Extra high” depending on the operating environment.
EC DECLARATION OF CONFORMITY

We  MITSUBISHI HEAVY INDUSTRIES, LTD.
    AIR-CONDITIONING & REFRIGERATION DIVISION
    3-1, Asahi, Nishibiwajima-cho, Kiyosu,
    Aichi, 452-8561, JAPAN

declare under our sole responsibility that the apparatus

Description of apparatus:  Heat Exchanger Unit
Model name: SAF Series

referred to in this declaration conforms with the following directives.
Relevant EC Directives :
    Machinery Directive 2006/42/EC
Applied Standards :
    EN 60335-1

Authorized representative in EU :
    MITSUBISHI HEAVY INDUSTRIES AIR-CONDITIONING EUROPE, LTD.
    7 Roundwood Avenue, Stockley Park, Uxbridge, Middlesex, UB11 1AX, United Kingdom

Note : About the detail of Conformity model, see EC DECLARATION OF CONFORMITY sheet
       included in a package
AIR-CONDITIONING & REFRIGERATION DIVISION
3-1, Asahi, Nishibiwajima-cho, Kiyosu, Aichi, 452-8561, Japan
http://www.mhi.co.jp

MITSUBISHI HEAVY INDUSTRIES, LTD.

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