FLOOR TYPE AIR CONDITIONERS
MFZ-KJ25VE MFZ-KJ35VE MFZ-KJ50VE MFZ-KJ60VE

INSTALLATION MANUAL

For INSTALLER

• When installing multi units, refer to the installation manual of the multi unit for outdoor unit installation.

Note:
These models can be connected to the multi units, except for KJ60.
1. BEFORE INSTALLATION

- Do not install the unit by yourself (user).
- Incomplete installation could cause fire, electric shock, injury due to the unit falling, or leakage of water. Consult the dealer from whom you purchased the air conditioner.
- Perform the installation securely referring to the installation manual.
- Incomplete installation could cause fire, electric shock, injury due to the unit falling, or leakage of water.
- Installing the unit, use appropriate protective equipment and tools for safety.
- Failure to do so could cause injury.
- Install the unit securely in a place which can bear the weight of the unit.
- If the installation location cannot bear the weight of the unit, the unit would fall causing injury.
- Electrical work should be performed by a qualified, experienced electrician, according to the installation manual. Be sure to use an exclusive circuit.
- Do not connect other electrical appliances to the circuit.
- If the capacity of the power circuit is insufficient or there is incomplete electrical work, it could result in electric shock or fire.
- Earth the unit correctly.
- Do not connect the earth to a gas pipe, water pipe, lightning rod or telephone earth. Faulty earthing could cause electric shock.
- Do not damage the wires by applying excessive pressure with parts or screws.
- Damaged wires could cause fire or electric shock.
- Be sure to cut off the main power in case of setting up the indoor P.C. board or wiring works. Failure to do so could cause electric shock.
- Use the specified wires to connect the indoor and outdoor units securely and attach the wires firmly to the terminal block connecting sections so the wire is not pulled out. If the wire is not applied to the sections, Do not extend the wires, or use intermediate connection. Incomplete connecting and securing could cause fire.

2. SELECTING THE INSTALLATION LOCATION

- Install an earth leakage breaker depending on the installation place. If an earth leakage breaker is not installed, it could cause electric shock.
- Perform the drainage/pipework work securely according to the installation manual.

Model names are indicated in 1.3. When installing multi units, refer to the installation manual of the multi unit for outdoor unit installation.

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### WARNING
(Could lead to death, serious injury, etc.)

- Do not install the unit in a place where inflammable gas may leak.
  - If gas leaks and accumulates in the area around the unit, it could cause an explosion.
  - Do not use intermediate connection of the power cord or the extension cord and do not connect many devices to one AC outlet.
  - It could cause a fire or an electric shock due to excessive contact, defective insulation, exceeding the permissible current, etc.
  - Be sure to use the parts provided or specified parts for the installation work.
  - The use of defective parts could cause an injury or leakage of water due to a fire, an electric shock, the unit falling, etc.
  - When plugging the power supply plug into the outlet, make sure that there is no dust, clogging, or loose parts in both outlet and the plug. Make sure that the power supply plug is pushed completely into the outlet.
  - If there is dust, clogging, or loose parts on the power supply plug or the outlet, it could cause electric shock or fire. If those parts are found on the power supply plug, replace it.
  - Attach the electrical cover to the indoor unit and the service panel to the outdoor unit securely.
  - If the electrical cover of the indoor unit and the service panel of the outdoor unit are not attached securely, it could result in a fire or an electric shock due to dust, water, etc.
  - When installing, relocating, or servicing the unit, make sure that no substance other than the specified refrigerant (R410A) enters the refrigerant circuit.
  - Any presence of foreign substance such as air can cause abnormal pressure rise and may result in explosion or injury. The use of any refrigerant other than that specified for the system will cause mechanical failure, system malfunction, or unit break-down. In the worst case, this could lead to a serious impediment to securing product safety.

- Do not discharge the refrigerant into the atmosphere. If refrigerant leaks during installation, ventilate the room. If refrigerant comes in contact with a fire, harmful gas could be generated.

- Do not discharge the refrigerant into the atmosphere. If refrigerant leaks during installation, ventilate the room. If refrigerant comes in contact with a fire, harmful gas could be generated.

### CAUTION
(Could lead to serious injury in particular environments when operated incorrectly)

- Do not install the outdoor unit where small aerials or TV antennas are available. If small animals enter and touch the electric parts inside the unit, it could cause a malfunction, smoke, emission, or fire. Also, advise user to keep the area around the unit clean.

- Do not do the air inlet or the aluminum fins of the outdoor unit. This could cause injury.

### Required Tools for Installation

| Phillips screwdriver | Wrench (or spanner) |
| Levelling tool | 4 mm hexagonal wrench |
| Scale | Flare tool for R410A |
| Utility knife or scissors | Gauze manifold for R410A |
| 35 class 65 mm | Vacuum pump for R410A |
| 50, 60 class 75 mm | Hose saw/Torque wrench |
| Pipe cutter with reamer | |

- Do not install the outdoor unit where small aerials or TV antennas are available. If small animals enter and touch the electric parts inside the unit, it could cause a malfunction, smoke, emission, or fire. Also, advise user to keep the area around the unit clean.

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1-3. SPECIFICATIONS

<table>
<thead>
<tr>
<th>Model</th>
<th>Power supply *1</th>
<th>Wire specifications *2</th>
<th>Pipe size (thickness *3, *4)</th>
<th>Pipe length and height difference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Indoor unit</td>
<td>Outdoor unit</td>
<td>Rated Voltage</td>
<td>Frequency</td>
<td>Breaker capacity</td>
</tr>
<tr>
<td>MFZ-KU25VE</td>
<td>MUFZ-KU25VE</td>
<td>230 V</td>
<td>50 Hz</td>
<td>10 A</td>
</tr>
<tr>
<td>MFZ-KJ35VE</td>
<td>MUFZ-KJ35VE</td>
<td>16 A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MFZ-KJ50VE</td>
<td>MUFZ-KJ50VE(HZ)</td>
<td>20 A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MFZ-KJ60VE <strong>10</strong></td>
<td>MUFZ-KJ60VE(HZ)</td>
<td>20 A</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*1 Connect to the power switch which has a gap of 3 mm or more when open to interrupt the source power phase. (When the power switch is shut off, it must interrupt all phases.)
*2 Use wires in conformity with design 60245 IEC 57.
*3 Never use pipes with thickness less than specified. The pressure resistance will be insufficient.
*4 Use a copper pipe or a copper-alloy seamless pipe.
*5 Be careful not to crush or bend the pipe during pipe bending. Refrigerant pipe bending radius must be 100 mm or more.
*6 If pipe length exceeds 7 m, additional refrigerant (R410A) charge is required. No additional charge is required for pipe length less than 7 m. Additional refrigerant = A × (pipe length (m) – 7)
*7 Insulation material: Heat resisting foam plastic 0.045 specific gravity.
*8 Be sure to use the insulation of specified thickness. Excessive thickness may cause incorrect installation of the indoor unit and insufficient thickness may cause drip damage.
*9 Single connection only.

1-4. INSTALLATION DIAGRAM

- Be sure to use wall hole sleeve (C) to prevent indoor/ outdoor connecting wire (A) from contacting metal parts in the wall and to prevent damage by rodents in case the wall is hollow.
- *Note: Place indoor/outdoor unit connecting wire (A) and power supply cord (K) at least 1 m away from the TV antenna wire.
- Appearances of the outdoor unit may differ from some models.

IMPORTANT NOTES

To comply with the requirements of Australian standard AS/NZS 3000 electrical installations (wiring rules), the electrical wiring required between the indoor and outdoor units must be installed by a licensed electrical contractor.

ACCESORIES

Check the following parts before installation.

<table>
<thead>
<tr>
<th>Part</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Drain hose**</td>
<td>1</td>
</tr>
<tr>
<td>2. Remote controller holder</td>
<td>1</td>
</tr>
<tr>
<td>3. Fixing screw for (2) 3.5×16 mm (Black)</td>
<td>2</td>
</tr>
<tr>
<td>4. Pipe cover</td>
<td>1</td>
</tr>
<tr>
<td>5. Band</td>
<td>2</td>
</tr>
<tr>
<td>6. Battery (AAA) for (12)</td>
<td>2</td>
</tr>
<tr>
<td>7. Indoor unit mounting bracket</td>
<td>1</td>
</tr>
<tr>
<td>8. Fixing screw for (7) 4×25 mm</td>
<td>5</td>
</tr>
<tr>
<td>9. Wood screw for indoor unit fixation</td>
<td>4</td>
</tr>
<tr>
<td>10. Washer of (9)</td>
<td>4</td>
</tr>
<tr>
<td>11. Felt tape (For left or right piping)</td>
<td>1</td>
</tr>
<tr>
<td>12. Wireless remote controller</td>
<td>1</td>
</tr>
<tr>
<td>13. Air cleaning filter</td>
<td>2</td>
</tr>
</tbody>
</table>

*Note: The Drain hose is connected to the unit.

<Outdoor unit>

<VE type only>

- Provide drain piping before indoor and outdoor piping connection.
- Connect drain hose (I) I.D 15 mm as shown in the illustration.
- Make sure to provide drain piping with a downhill grade for easy drain flow.

Drain piping for outdoor unit

- *Note:
  - Install the unit horizontally.
  - Do not use drain socket (14) in cold regions. Drain may freeze and make the fan stop.
  - The outdoor unit produces condensate during the heating operation. Select the installation place to ensure to prevent the outdoor unit and/ or the grounds from being wet by drain water or damaged by frozen drain water.

Drain outlet

Air outlet

Pipe fixing band

Pipe fixing screw (F)

Wall hole cover (D)

Fix the pipe to wall with pipe fixing band (E).

Cut off the extra length

Pipe fixing band

Pipe fixing screw (F)

Return line of unit

Drain line of unit

Outdoor unit installation (KJ25, 35, KJ50, 60)

800/840 mm

150/175 mm

500 mm

40 mm

50/60 Hz

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2. INDOOR UNIT INSTALLATION

2-1. FIXING OF INDOOR UNIT MOUNTING BRACKET

- Find a structural material (such as a stud) in the wall and fix bracket (7) horizontally with fixing screws (8).
- To prevent bracket (7) from vibrating, be sure to install the fixing screws in the holes indicated in the illustration. For added support, fixing screws may also be installed in other holes.

2-2. HOLE DRILLING

1) Determine the wall hole position.
2) Drill a dia. 65 mm hole (dia. 75 mm for KJ50/60). The outdoor side should be 5 to 7 mm lower than the indoor side.
3) Insert wall hole sleeve (C).

2-3. INDOOR UNIT PREPARATION

Remove the front panel of the indoor unit.
1) Push down the tab on the both sides of the unit to open the front panel.
2) Pull the front panel toward you to remove it.
3) Remove the 2 screws.
4) Open the rear horizontal vane.
5) Push the 2 locations on the top of the panel, and then pull the upper part of the panel toward you.
6) Remove the panel while lifting it up (slightly).
2-4. INDOOR UNIT INSTALLATION

2-4-1. INSTALLING THE INDOOR UNIT ON THE FLOOR
1. Place the indoor unit on the flat floor.
2. Fix the indoor unit at 4 points with the included wood screws (9) and washers (10). Tighten the screws securely.

2-4-2. MOUNTING THE INDOOR UNIT ON THE WALL
1. Hook the top of the indoor unit on the indoor unit mounting bracket (7).
2. Fix the indoor unit at 4 points with the included wood screws (9) and washers (10). Tighten the screws securely.

2-4-3. EMBEDDING THE INDOOR UNIT IN A WALL
1. Make a hole in the wall.
2. Using reinforcement material, adjust the depth.
3. Remove 6 screws that fix the base to the unit. Remove the base from the unit.
4. Fix the indoor unit at 4 points with the included wood screws (9) and washers (10). Tighten the screws securely.

2-5. CONNECTING WIRES FOR INDOOR UNIT
1) Remove VA clamp.
2) Pass indoor/outdoor unit connecting wire (A) from the back of the indoor unit and process the end of the wire.
3) Loosen terminal screw, and connect first the earth wire, then indoor/outdoor unit connecting wire (A) to the terminal block. Be careful not to make miswiring. Fix the wire to the terminal block securely so that no part of its core is appeared, and no external force is conveyed to the connecting section of the terminal block.
4) Firmly tighten the terminal screws to prevent them from loosening. After tightening, pull the wires lightly to confirm that they do not move.
5) Secure indoor/outdoor unit connecting wire (A) and the earth wire with the VA clamp. Never fail to hook the left claw of the VA clamp. Attach the VA clamp securely.

- Make earth wire a little longer than others. (More than 45 mm)
- For future servicing, give extra length to the connecting wires.
- Do not fold the excess wire, or cram it into small space. Take caution not to damage the wires.
- Be sure to attach each screw to its correspondent terminal when securing the cord and/or the wire to the terminal block.

2-6. PIPE FORMING AND INSTALLATION

Pipe Forming
- Route the drain hose diagonally below the connecting pipes.
- Make sure that the drain hose is not routed upward and that there are no waves in the hose.
- Do not pull the hose when applying the tape.
- Route the piping so that it does not project past the rear of the indoor unit. (Refer to the figure to the right.)

Connecting Pipe Installation
- Install the connecting pipes so that the piping can move slightly to the front, back, left, and right.
- Be sure to insulate the connecting pipes so that they do not contact the panel.
- Be careful not to crush the connecting pipes when bending them.
FOR LEFT OR LEFT-REAR PIPING
Bundle the connecting pipes and drain hose together, and then wrap them in felt tape (11).
Cut and use the lower side panels on the left and right sides of the indoor unit as shown below.
Smooth the cut edges of the side panels so that they will not damage the insulation coating.
• For left or right piping
• Installing flush against a wall with molding

Wrap the felt tape (11) tightly around the pipes and hose starting near where the pipes and hose are routed from the indoor unit. (The overlap width of the felt tape (11) should not be more than 1/2 of the tape width.)

2-7. DRAIN PIPING
• If the extension drain hose has to pass through a room, be sure to wrap it with commercially sold insulation.
• The drain hose should point downward for easy drain flow. (Fig. 1)
• If the drain hose provided with the indoor unit is too short, connect it with drain hose (I) that should be provided at your site. (Fig. 2)
• When connecting the drain hose to the hard vinyl chloride pipe, be sure to insert it securely into the pipe. (Fig. 3)

The Drain hose is removed at installation.
• When routing the drain piping, make sure that the drain hose (1) is routed as shown. (Fig. 4)
• Insert the drain hose all the way to the base of the drain pan (end connection). (Fig. 5)
Make sure that the catch of the drain hose is securely hooked onto the projection on the hose fitting of the drain pan.
After connecting the drain hose, be sure to pull the hose to confirm that it is connected securely.

2-8. FRONT PANEL INSTALLATION
1) Open the rear horizontal vane.
2) Attach the panel. Make sure that the catches are engaged.
3) Fix the panel with screws.
4) Insert the bottom part of the front panel.
5) Push 3 places on the upper part of the front panel to close it.

2-9. CONNECTING AN INTERFACE (option)/CONNECTOR CABLE (option) TO THE AIR CONDITIONER
• Connect an interface/connector cable to the indoor control P.C. board of an air conditioner with a connecting cable.
• Cutting or extending the connecting cable of the interface/connector cable results in defects in connecting. Do not bundle the connecting cable together with power supply cord, indoor/outdoor connecting wire, and/or earth wire. Keep as much distance as possible between the connecting cable and those wires.
• The thin part of the connecting cable should be stored and placed where customers cannot touch it.

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1) Remove the panel.
2) Open the cover of the indoor control P.C. board.
3) Join the connecting cable to CN105 and/or CN104 on the indoor control P.C. board.
4) Route the connecting cable through this point in the figure.
5) Attach the cable clamp provided with interface/connector cable to the thick part of the connecting cable with a screw 4×16 as shown in the figure.
6) Close the cover of the indoor control P.C. board. Be careful not to catch the thin part of the connecting cable in the cover. Reinstall the panel.

**WARNING**

Fix the connecting cable at the prescribed position securely. Incorrect installation may cause electric shock, fire, and/or malfunction.

### 3. OUTDOOR UNIT INSTALLATION

#### 3-1. CONNECTING WIRES FOR OUTDOOR UNIT

1) Open the service panel.
2) Loosen terminal screw, and connect indoor/outdoor unit connecting wire (A) from the indoor unit correctly on the terminal block. Be careful not to make mis-wiring. Fix the wire to the terminal block securely so that no part of its core is appeared, and no ex-isting wires is conveyed to the connecting section of the terminal block.
3) Firmly tighten the terminal screws to prevent them from loosening. After tightening, pull the wires lightly to confirm that they do not move.
4) Connect power supply cord (K).
5) Fix indoor/outdoor unit connecting wire (A) and power supply cord (K) with the cord clamp.
6) Close the service panel securely.

- **Make earth wire a little longer than others. (More than 100 mm)**
- **For future servicing, give extra length to the connecting wires.**
- **Be sure to attach each screw to its correspondent terminal when securing the cord and/or the wire to the terminal block.**

#### 3-2. FLARING WORK

1) Cut the copper pipe correctly with pipe cutter. (Fig. 1, 2)
2) Completely remove all burrs from the cut cross section of pipe. (Fig. 3)
   - **Put the end of the copper pipe to downward direction as you remove burrs in order to avoid to let burrs drop in the piping.**
3) Remove flare nuts attached to indoor and outdoor units, then put them on pipe having completed burr removal. (Not possible to put them on after flaring work.)
4) Flaring work (Fig. 4, 5). Firmly hold copper pipe in the dimension shown in the table. Select A mm from the table according to the tool you use.
5) Check
   - ** compare the flared work with Fig. 6.**
   - **If flare is noted to be defective, cut off the flared section and do flaring work again.**

![Flaring Work Diagram](image)

<table>
<thead>
<tr>
<th>Pipe diameter (mm)</th>
<th>Nut (mm)</th>
<th>Clutch type tool for R410A</th>
<th>A (mm)</th>
<th>Clutch type tool for R22</th>
<th>Wing nut type tool for R22</th>
<th>N/mm</th>
<th>kgf/cm</th>
</tr>
</thead>
<tbody>
<tr>
<td>ø 6.35 (1/4&quot;)</td>
<td>17</td>
<td>0.0 to 0.5</td>
<td>1.0 to 1.5</td>
<td>1.5 to 2.0</td>
<td>34.3 to 41.2</td>
<td>140</td>
<td>180</td>
</tr>
<tr>
<td>ø 9.52 (3/8&quot;)</td>
<td>22</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ø12.7 (1/2&quot;)</td>
<td>26</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### 3-3. PIPE CONNECTION

- **Fasten flare nut with a torque wrench as specified in the table.**
- **When fastened too tight, flare nut may break after a long period and cause refrigerant leakage.**
- **Be sure to wrap insulation around the piping. Direct contact with the bare piping may result in burns or frostbite.**

**Indoor unit connection**

- Connect both liquid and gas pipe ends to indoor unit.
- **Apply a thin coat of refrigeration oil (J) on the flared ends of the pipes. Do not apply refrigeration oil on screw threads. Excessive tightening torque will result in damage on the screw.**
- **For connection, first align the center, then tighten the first 3 to 4 turns of flare nut.**
- **Use tightening torque table above as a guideline for indoor unit side union joint section, and tighten using two wrenches. Excessive tightening damages the flare section.**

**Outdoor unit connection**

Connect pipes to stop valve pipe joint of the outdoor unit in the same manner applied for indoor unit.
- **For tightening, use a torque wrench or spanner and use the same tightening torque applied for indoor unit.**

#### 3-4. INSULATION AND TAPING

1) Cover piping joints with pipe cover.
2) For outdoor unit side, surely insulate every piping including valves.
3) Using piping tape (G), apply taping starting from the entry of outdoor unit.
   - **Stop the end of piping tape (G) with tape (with adhesive agent attached).**
   - **When piping have to be arranged through above ceiling, closet or where the temperature and humidity are high, wind additional commercially sold insulation to prevent condensation.**

![Insulation and Taping Diagram](image)
4. PURGING PROCEDURES, LEAK TEST, AND TEST RUN

4-1. PURGING PROCEDURES AND LEAK TEST

1) Remove service port cap of stop valve on the side of the outdoor unit gas pipe. (The stop valves are fully closed and covered in caps in initial status.)
2) Connect gauge manifold valve and vacuum pump to service port of stop valve on the gas pipe side of the outdoor unit.
3) Run the vacuum pump. (Vacuumize for more than 15 minutes.)
4) Check the vacuum with gauge manifold valve, then close gauge manifold valve, and stop the vacuum pump.
5) Leave as it is for one or two minutes. Make sure pointer gauge manifold valve remains in the same position. Confirm that pressure gauge shows ~0.101 MPa [Gauge] (~760 mmHg).
6) Remove gauge manifold valve quickly from service port of stop valve.
7) After refrigerant pipes are connected and evacuated, fully open all stop valves on both sides of gas pipe and liquid pipe. Operating without fully opening lowers the performance and this causes trouble.
8) Refer to 1-3., and charge the prescribed amount of refrigerant if needed. Be sure to charge slowly with liquid refrigerant. Otherwise, composition of the refrigerant in the system may be changed and affect performance of the air conditioner.
9) Tighten cap of service port to obtain the initial status.
10) Leak test

4-2. TEST RUN

Make sure the following is done.
- Panel is installed correctly.
- Indoor and outdoor units are installed correctly, and power is supplied.
1) Press the E.O. SW once for COOL, and twice for HEAT operation. Test run will be performed for 30 minutes. If the left lamp of the operation indicator blinks every 0.5 seconds, inspect the indoor/outdoor unit connecting wire (A) for mis-wiring. After the test run, emergency mode (set temperature 24℃) will start.
2) To stop operation, press the E.O. SW several times until all LED lamps turn off. Refer to operating instructions for details.
Checking the remote (infrared) signal reception
Press the ON/OFF button on the remote controller (12) and check that an electronic sound is heard from the indoor unit. Press the ON/OFF button again to turn the air conditioner off.
- Once the compressor stops, the restart preventive device operates so the compressor will not operate for 3 minutes to protect the air conditioner.

4-3. AUTO RESTART FUNCTION

This product is equipped with an auto restart function. When the power supply is stopped during operation, such as during blackouts, the function automatically starts operation in the previous setting once the power supply is resumed. (Refer to the operating instructions for details.)

Caution:
- After test run or remote signal reception check, turn off the unit with the E.O. SW or the remote controller before turning off the power supply. Not doing so will cause the unit to start operation automatically when power supply is resumed.
To the user
- After installing the unit, make sure to explain the user about auto restart function.
- If auto restart function is unnecessary, it can be deactivated. Consult the service representative to deactivate the function. Refer to the service manual for details.

4-4. EXPLANATION TO THE USER

- Using the OPERATING INSTRUCTIONS, explain to the user how to use the air conditioner (how to use the remote controller, how to remove or put the remote controller in the remote controller holder, how to clean, precautions for operation, etc.)
- Recommend the user to read the OPERATING INSTRUCTIONS carefully.

5. PUMPING DOWN

When relocating or disposing of the air conditioner, pump down the system following the procedure below so that no refrigerant is released into the atmosphere.
1) Connect the gauge manifold valve to the service port of the stop valve on the gas pipe side of the outdoor unit.
2) Fully close the stop valve on the liquid pipe side of the outdoor unit.
3) Close the stop valve on the gas pipe side of the outdoor unit almost completely so that it can be easily closed fully when the pressure gauge shows 0 MPa [Gauge] (0 kgf/cm²).
4) Start the emergency COOL operation.
To start the emergency operation in COOL mode, disconnect the power supply plug and/or turn off the breaker. After 15 seconds, connect the power supply plug and/or turn on the breaker, and then press the E.O. SW once. (The emergency COOL operation can be performed continuously for up to 30 minutes.)
5) Fully close the stop valve on the gas pipe side of the outdoor unit when the pressure gauge shows 0.05 to 0.0 MPa [Gauge] (approx. 0.5 to 0 kgf/cm²).
6) Stop the emergency COOL operation.
- Press the E.O. SW twice to stop the operation.

When pumping down the refrigerant, stop the compressor before disconnecting the refrigerant pipes. The compressor may burst if air etc. get into it.

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