



DEHUMIDIFIER

**2003****SERVICE MANUAL**

No.MJW-21

Model **MJ-E16S/E16SX-S1**

Sold from 2003

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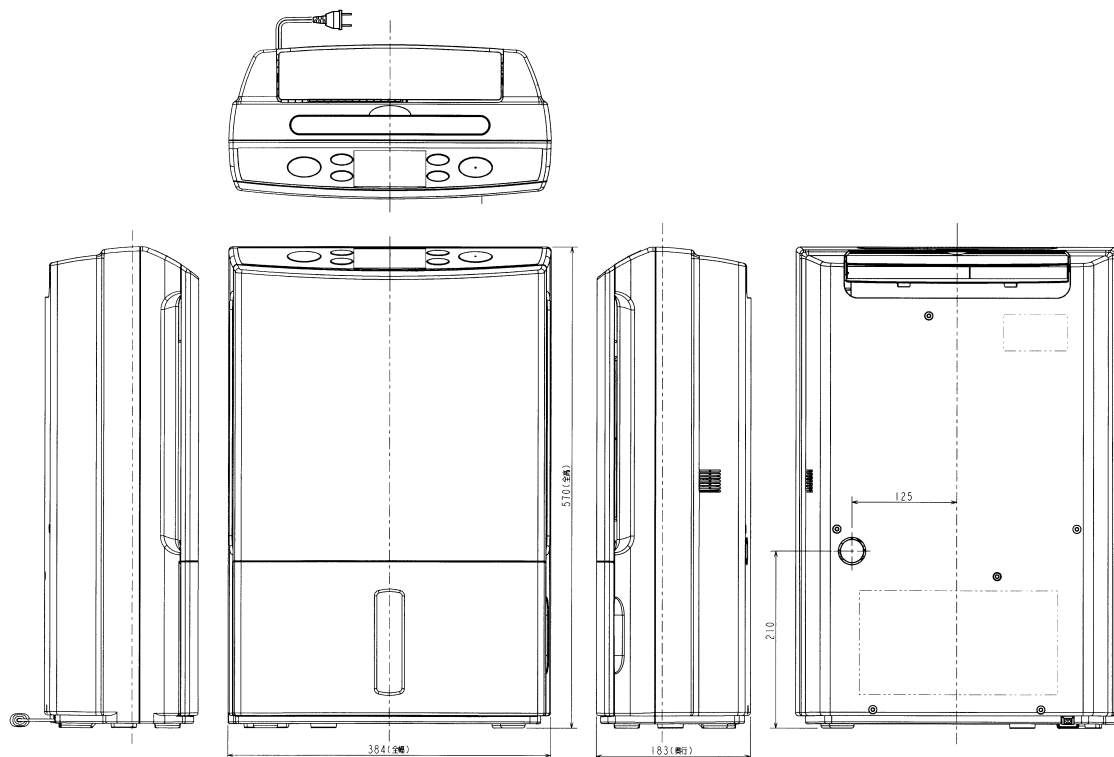
## 1. Product specifications

| Model                      |                                                                                       | MJ-E16S-S1                                                                                                |                                                                  |     |         | MJ-E16SX-S1                                                                                                                                |                     |         |                    |         |          |                   |              |         |      |         |         |            |
|----------------------------|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|-----|---------|--------------------------------------------------------------------------------------------------------------------------------------------|---------------------|---------|--------------------|---------|----------|-------------------|--------------|---------|------|---------|---------|------------|
| Item                       |                                                                                       |                                                                                                           |                                                                  |     |         |                                                                                                                                            |                     |         |                    |         |          |                   |              |         |      |         |         |            |
| Performance                | Dehumidifying capacity<br>(30°C room temperature, 80% relative humidity) (liters/day) | 16.0                                                                                                      |                                                                  |     |         |                                                                                                                                            |                     |         |                    |         |          |                   |              |         |      |         |         |            |
|                            | Operating noise levels(dB)                                                            |                                                                                                           |                                                                  |     |         |                                                                                                                                            |                     |         |                    |         |          |                   |              |         |      |         |         |            |
|                            | Laundry                                                                               | 41                                                                                                        |                                                                  |     |         |                                                                                                                                            |                     |         |                    |         |          |                   |              |         |      |         |         |            |
|                            | Continuous dehumidifying                                                              | 37                                                                                                        |                                                                  |     |         |                                                                                                                                            |                     |         |                    |         |          |                   |              |         |      |         |         |            |
| Electrical characteristics | Power supply (phases,V,Hz)                                                            | single phase, 220-240V, 50Hz                                                                              |                                                                  |     |         |                                                                                                                                            |                     |         |                    |         |          |                   |              |         |      |         |         |            |
|                            | Power consumption (W)                                                                 | 275                                                                                                       |                                                                  |     |         |                                                                                                                                            |                     |         |                    |         |          |                   |              |         |      |         |         |            |
|                            | Operating current (A)                                                                 | 1.3                                                                                                       |                                                                  |     |         |                                                                                                                                            |                     |         |                    |         |          |                   |              |         |      |         |         |            |
|                            | Starting current (A)                                                                  | 5.5                                                                                                       |                                                                  |     |         |                                                                                                                                            |                     |         |                    |         |          |                   |              |         |      |         |         |            |
| Product performance        | Color tone                                                                            | Metallic Blue (A)                                                                                         |                                                                  |     |         |                                                                                                                                            |                     |         |                    |         |          |                   |              |         |      |         |         |            |
|                            | Dimensions (H × W × D mm)                                                             | 570 × 384 × 183                                                                                           |                                                                  |     |         |                                                                                                                                            |                     |         |                    |         |          |                   |              |         |      |         |         |            |
|                            | Weight (kg)                                                                           | 11.7                                                                                                      |                                                                  |     |         |                                                                                                                                            |                     |         |                    |         |          |                   |              |         |      |         |         |            |
|                            | Coolant quantity (g)                                                                  | HFC - 134a, 120g                                                                                          |                                                                  |     |         |                                                                                                                                            |                     |         |                    |         |          |                   |              |         |      |         |         |            |
|                            | Evaporator                                                                            | Slit fin                                                                                                  |                                                                  |     |         |                                                                                                                                            |                     |         |                    |         |          |                   |              |         |      |         |         |            |
|                            | Condenser                                                                             | Slit fin                                                                                                  |                                                                  |     |         |                                                                                                                                            |                     |         |                    |         |          |                   |              |         |      |         |         |            |
|                            | Compressor                                                                            | Compressor protection                                                                                     | Thermal overcurrent relay                                        |     |         |                                                                                                                                            |                     |         |                    |         |          |                   |              |         |      |         |         |            |
|                            |                                                                                       | Model                                                                                                     | XB460 VTE (rotary)                                               |     |         |                                                                                                                                            |                     |         |                    |         |          |                   |              |         |      |         |         |            |
|                            |                                                                                       | Output (W)                                                                                                | 150                                                              |     |         |                                                                                                                                            |                     |         |                    |         |          |                   |              |         |      |         |         |            |
|                            |                                                                                       | Winding resistance (Ω)                                                                                    | Primary: 26.1 , subsidiary: 70.7                                 |     |         |                                                                                                                                            |                     |         |                    |         |          |                   |              |         |      |         |         |            |
|                            | Blower                                                                                | Blower protection                                                                                         | With temperature fuse                                            |     |         |                                                                                                                                            |                     |         |                    |         |          |                   |              |         |      |         |         |            |
|                            |                                                                                       | Type                                                                                                      | Sirocco fan                                                      |     |         |                                                                                                                                            |                     |         |                    |         |          |                   |              |         |      |         |         |            |
|                            |                                                                                       | Output (W)                                                                                                | 16                                                               |     |         |                                                                                                                                            |                     |         |                    |         |          |                   |              |         |      |         |         |            |
|                            |                                                                                       | Flow rate selection                                                                                       | 4                                                                |     |         |                                                                                                                                            |                     |         |                    |         |          |                   |              |         |      |         |         |            |
|                            |                                                                                       |                                                                                                           | E16S                                                             |     |         |                                                                                                                                            | Common              |         |                    | E16SX   |          |                   |              |         |      |         |         |            |
|                            |                                                                                       | Speed (rpm)                                                                                               | Air purifier                                                     | 700 | Laundry | 720 [740]*                                                                                                                                 | Low                 | 675-700 | Easy Dehumidifying | 675-700 | Low Temp | [740]*<br>675-700 | Mildew Guard | 675-700 | Auto | 675-700 | Laundry | 720 [740]* |
|                            |                                                                                       | Flow rate (m³/min)                                                                                        |                                                                  | 2.5 |         | 2.6 [2.7]*                                                                                                                                 |                     | 2.4-2.5 |                    | 2.4-2.5 |          | [2.7]<br>2.4-2.5  |              | 2.4-2.5 |      | 2.4-2.5 |         | 2.6 [2.7]* |
|                            |                                                                                       | Operating room temperature (reference) (°C)                                                               | 1 ~ 35 (°C)                                                      |     |         |                                                                                                                                            |                     |         |                    |         |          |                   |              |         |      |         |         |            |
|                            | Defrosting method                                                                     | Hot gas type                                                                                              |                                                                  |     |         |                                                                                                                                            |                     |         |                    |         |          |                   |              |         |      |         |         |            |
|                            | Humidity control                                                                      | Built-in humidity sensor                                                                                  |                                                                  |     |         |                                                                                                                                            |                     |         |                    |         |          |                   |              |         |      |         |         |            |
|                            | Tank full protection                                                                  | Reed switch (automatic)                                                                                   |                                                                  |     |         |                                                                                                                                            |                     |         |                    |         |          |                   |              |         |      |         |         |            |
|                            | Tank capacity (liters)                                                                | Auto-stopper tripped with about 4.0 liters of water                                                       |                                                                  |     |         |                                                                                                                                            |                     |         |                    |         |          |                   |              |         |      |         |         |            |
|                            | Continuous drainage                                                                   | Commercial hose (inside diameter 15 mm)                                                                   |                                                                  |     |         |                                                                                                                                            |                     |         |                    |         |          |                   |              |         |      |         |         |            |
|                            | Operation modes                                                                       | LOW · EASY DEHUMIDIFYING · LOW TEMP · AIR PURIFIER (E16S) · LAUNDRY · AUTO (E16SX) · MILDEW GUARD (E16SX) |                                                                  |     |         |                                                                                                                                            |                     |         |                    |         |          |                   |              |         |      |         |         |            |
| Indications                | E16S                                                                                  |                                                                                                           | Common                                                           |     |         | E16SX                                                                                                                                      |                     |         |                    |         |          |                   |              |         |      |         |         |            |
|                            | LAUNDRY · AIR PURIFIER · OFF TIMER (2 · 4 · 8h)                                       |                                                                                                           | LOW · LOW TEMP · EASY DEHUMIDIFYING · TANK FULL · COLD · DEFROST |     |         | LAUNDRY · MILDEW GUARD · AUTO · CURRENT HUMIDIFY · SELECTION HUMIDIFY · ON/OFF TIMER(1-9h) · SWING LOUVRE(WIDE, UPWARD, REAR) · CHILD LOCK |                     |         |                    |         |          |                   |              |         |      |         |         |            |
| Timer                      | Off timer (2 · 4 · 8h)                                                                |                                                                                                           |                                                                  |     |         |                                                                                                                                            | On/Off timer (1-9h) |         |                    |         |          |                   |              |         |      |         |         |            |
| Air cleaning performance   | Yes                                                                                   |                                                                                                           |                                                                  |     |         |                                                                                                                                            |                     |         |                    |         |          |                   |              |         |      |         |         |            |
| Plug socket rating         | 16A                                                                                   |                                                                                                           |                                                                  |     |         |                                                                                                                                            |                     |         |                    |         |          |                   |              |         |      |         |         |            |

● The operating noise levels indicated are typical values measured in our anechoic room.

\* The brackets [ ] enclose values measured at a room temperature of about 15°C or lower.

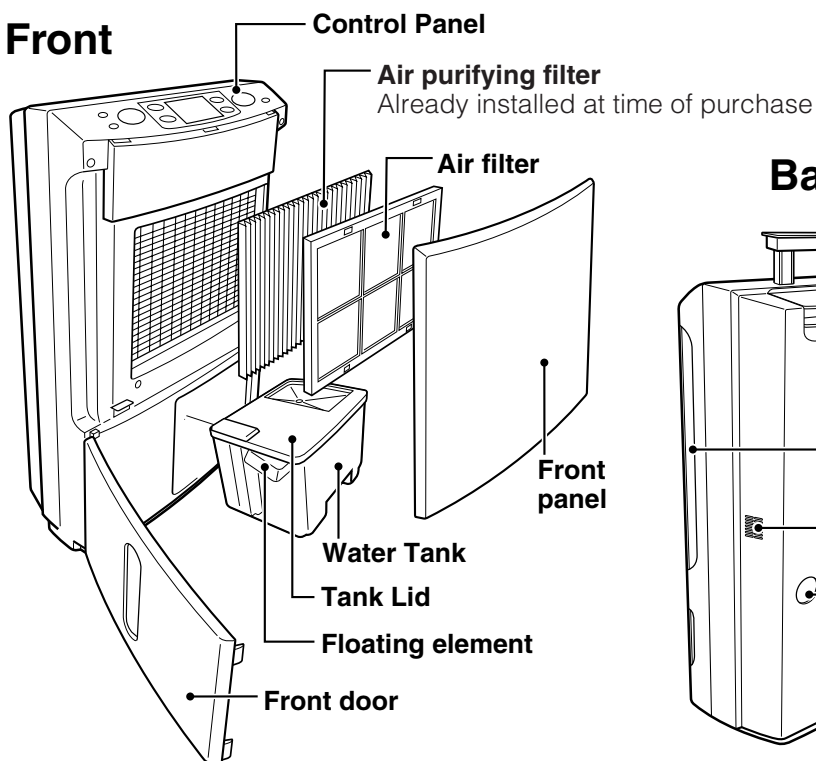
## 2. Outer Dimensions



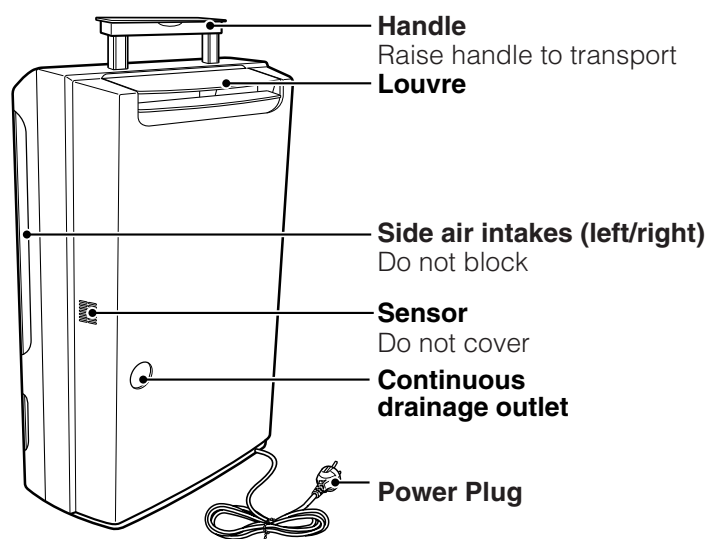
## 3. External View, Parts and Display Section

**E16SX**

### Front



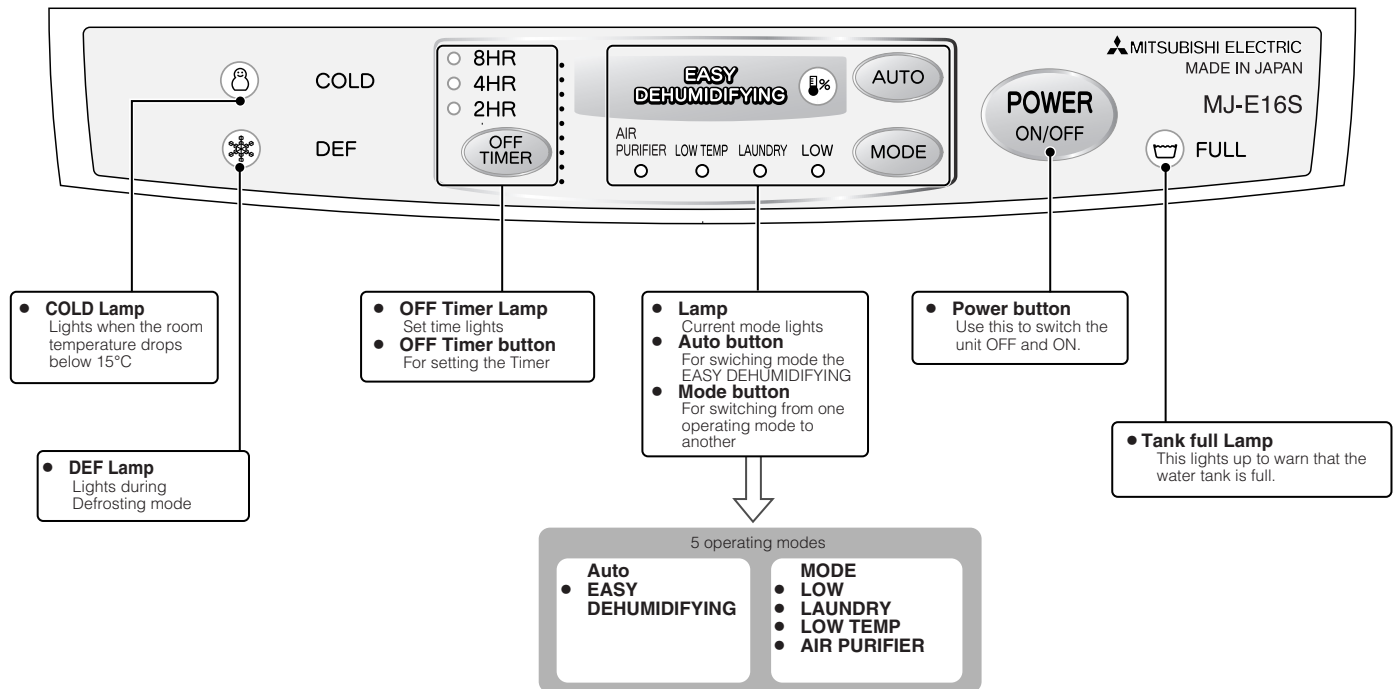
### Back



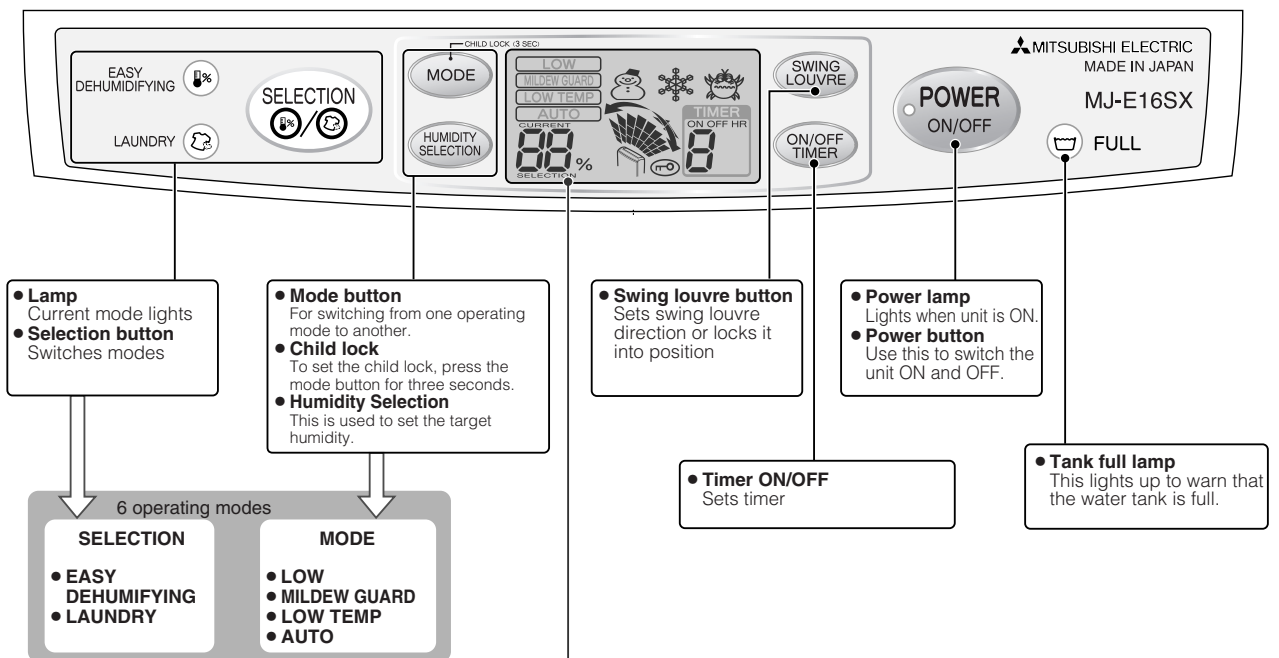
The water tank may contain water residue at time of purchase. This is from final product testing at the factory and is not due to a defect.

# Control Panel

## MJ-E16S

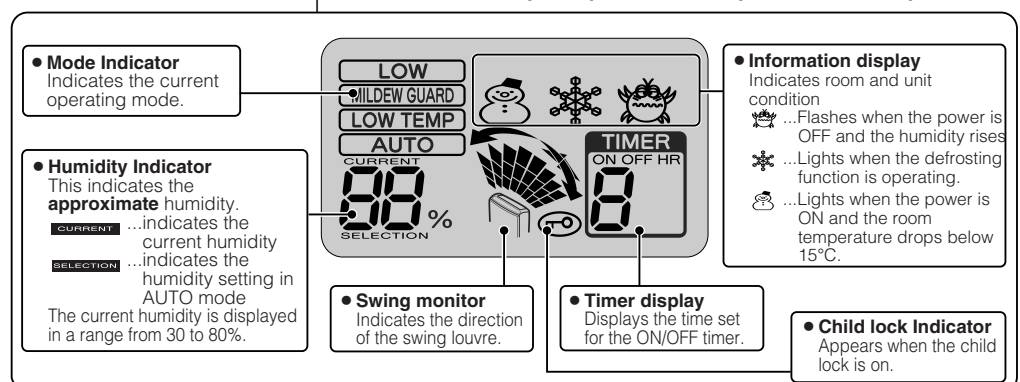


## MJ-E16SX



# LCD Panel

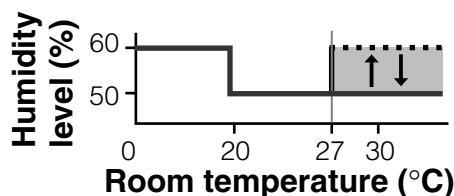
The LCD panel provides an explanation of all operations.



## <Modes>

### ● Easy Dehumidifying E16S E16SX

The unit automatically controls airflow to counter excessive room temperature/humidity. It activates the blower at high temperatures.



- Room temperature is below 27°C - the unit automatically sets the humidity level according to the temperature.
- Room temperature is above 27°C - the unit lowers the humidity level to 50%, then activates the blower. The dehumidifier is reactivated when humidity rises to 60%.

| Use standard         |                     |
|----------------------|---------------------|
| Effective floor area | ~ 12 m <sup>2</sup> |

### ● Low E16S E16SX

The unit continually operates the dehumidifier regardless of current humidity.

### ● Low Temp E16S E16SX

The unit operates continuously automatically controlling airflow according to room temperature. The air flow is strongest below 15°C. The use of Low Temp mode is recommended when the Low temperature indicator is lit.

**Information** When the temperature is low, condensation may still form on windows exposed to the outside air even when Low Temp mode is operating

### ● LAUNDRY E16S

Continuous dehumidifying regardless of current humidity at high airflow.

### ● Air Purifier E16S

Cleans the air by passing it through the air filter.  
The dehumidifying function is off.  
Air passes through the air filter when the dehumidifying function is on.

### ● Easy Laundry E16SX The unit operates for 12 hours and automatically switches off.

- Empty the water tank before operating the unit. The unit may stop before the clothes are dry due to a full tank.
- Do not use in conjunction with OFF Timer mode. The unit may stop before the clothes are dry.

#### ● The following conditions prevent clothes from drying well:

Room temperature below 15°C, large volume of laundry; laundry not spaced well; clothes of thick fabric and spacious room.

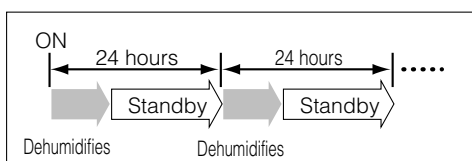
● **When the room temperature is below 5°C, less water evaporates from the clothes, decreasing the amount of temperature change. Therefore the unit is unable to detect the state of the laundry and may turn off after 1 hour.**

● Restart the unit if it turns off before the laundry dries (except when the temperature is below 5°C).

| Use standard         |                     |
|----------------------|---------------------|
| Effective floor area | ~ 10 m <sup>2</sup> |
| Laundry volume       | Up to approx. 4 kg. |

### ● Mildew Guard E16SX The unit lowers room humidity levels once a day (for approximately 2-4 hours), suppressing mildew growth.

- Once every 24 hours the dehumidifier runs for 2 hours if the humidity is 40%, or 4 hours if at 50%. The unit operates intermittently, automatically turning on and off according to the humidity level of the room.
- The unit continues operation if the humidity level does not decrease.



- Refrain from turning on ventilation fans or opening windows or doors as this lowers performance.
- Mildew growth may still occur due to the fungus type and conditions of the room.  
E.g. Rooms that contain excessive condensation, bathrooms, and places with bad airflow (insides of closets and behind furniture).
- This mode does not remove existing mildew.
- Do not use in conjunction with OFF Timer mode.

| Use standard         |                     |
|----------------------|---------------------|
| Effective floor area | ~ 12 m <sup>2</sup> |

### ● Auto E16SX

The unit maintains the humidity level by automatically controlling airflow and operating intermittently as necessary. All you have to do is set the humidity level.

- The unit turns off when current humidity decreases past the set humidity level, and restarts when the level is exceeded.
- The unit operates for 6 minutes continuously regardless of the humidity level immediately after turning the power on.

**Information** Frequent use of exits and room size/conditions may cause the humidity to not reach the set level.

### <To view set humidity level/ To set humidity level>



**Press**

- Pressing the button once displays the set humidity level with the **SELECTION** indicator. After 3 seconds, the display returns to the current humidity display.

- Pressing HUMIDITY SELECTION while **SELECTION** is displayed sets the humidity level. Each time the button is pressed, the humidity setting changes.

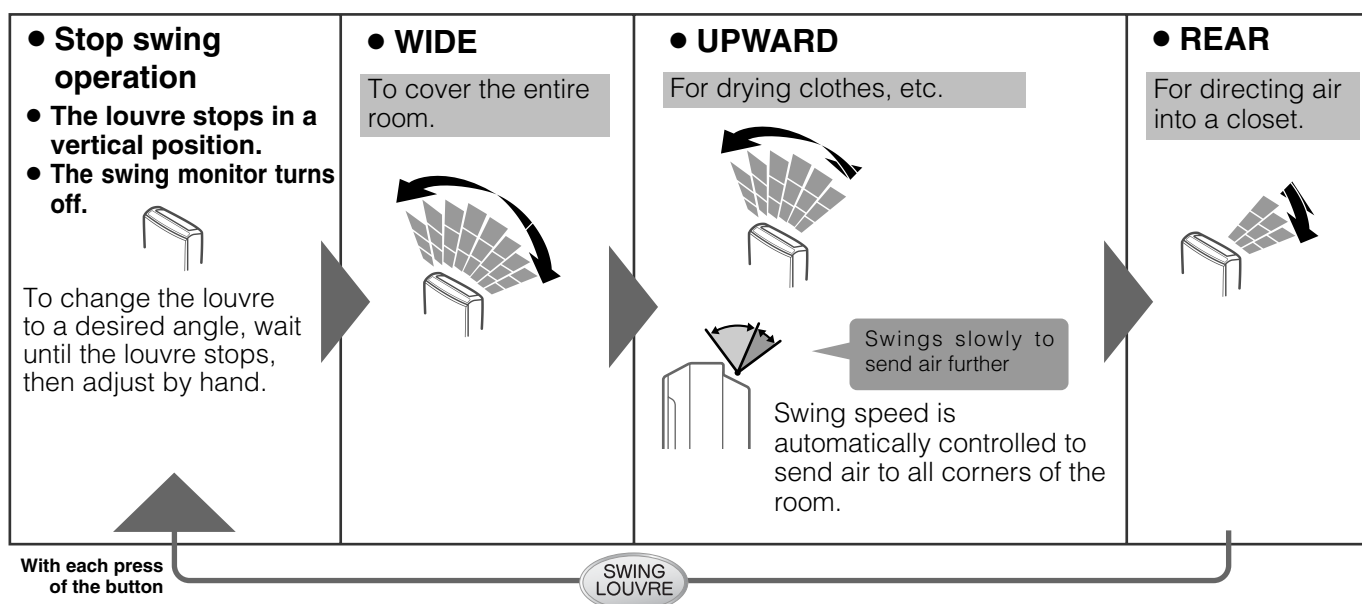
70 → 65 → 60 → 55 → 50

## <Indications>

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | E16S | E16SX |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------|
|  <b>High humidity warning</b><br>The  indicator flashes when the humidity in the room exceeds 75%.<br>Activating the dehumidifier is recommended when the  indicator is flashing.<br>If the High humidity warning is not used, remove the power plug from the power socket. [E16SX] Only                                                                                                                                                                                                                                                                                                        |  <b>Cold lamp</b><br>When the room temperature falls below 15°C while the unit is operating, the lamp turns on or the  indicator appears.                                                                                                                                                                                                                                                                                                                                                                   |      |       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |       |
|  <b>Tank full lamp</b><br>The unit automatically shuts down and indicates with the lamp and sound that the water tank is full. Empty the water tank.<br><ul style="list-style-type: none"> <li>• <b>Tank full lamp</b>  <b>lights</b><br/>                             The unit beeps continuously.</li> <li>• <b>Air flows stops (louvre stops)</b></li> <li>• <b>Monitor turns off</b></li> </ul> <ul style="list-style-type: none"> <li>• After removing the water and replacing the tank, the Tank full lamp will go off, and the unit will automatically return to operation mode.</li> <li>• When the Tank Full lights up, no operation but ON/OFF is possible.</li> </ul> |  <b>Defrosting lamp</b><br>The air flow (dehumidifier) is stopped when the lamp is lit. The frost accumulated inside the unit is melted, and drained to the tank. After defrosting is complete, the unit restarts.<br><ul style="list-style-type: none"> <li>• <b>Defrosting lamp is lit</b></li> <li>• <b>Air flow is stopped</b></li> <li>• <b>Operating sound has changed</b></li> </ul> The unit automatically performs this function when the room temperature falls below 15°C.<br>(During peak periods, the unit will perform this function once every 40 minutes for 5 to 10 minutes.) |      |       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |       |

## <Viewing the Swing Monitor>

This indicates the range of louvre swing.  
 (The louvre and monitor do not move in synchronization.)



## <Timer> [E16S]

### To set

- 1 Open the louvre manually
- 2 Switch the power on
- 3 Select operating mode  
Select desired operating mode
- 4 Set operating time
  - Blank
  - 8HR
  - 4HR
  - 2HR
  - ON/OFF TIMER

Press 

→ The OFF Timer is set

  - OFF Timer lamp indicates remaining time
  - Power automatically turns off at set time

### To cancel

#### <When you want to turn the unit off>

Press the Power button.  
 (Power off)

- The OFF Timer is cancelled



#### <When you want to disable the Timer OFF mode, and continue operation>

Hold down the button until the OFF Timer lamp goes out. The unit returns to Low mode

- The OFF Timer is cancelled



Information

Empty the water tank before operating. The unit stops and the Tank full lamp lights if the tank becomes full during operation.

## E16SX

### <<ON timer operation>>

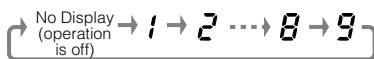
The ON timer can be set for 1 to 9 hours.  
Set the timer when the power is switched off.

#### To set

- 1 Switch the power off.
- 2 Set the time you wish the unit to turn on.



- Press once. The Power lamp, Mode indicator, and a [ : ] on the digital display flash. The [ON] indicator lights.
- Each subsequent press changes the display in order from 1 to 9 hours. (Hold the button to run automatically through the numbers.)



#### 3 Select operating mode.

Select desired operating mode.

#### 4 Change the louvre swing direction.

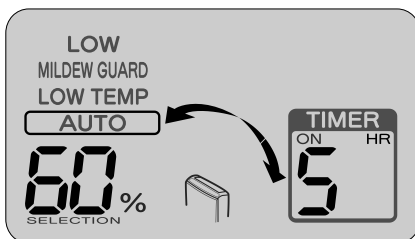
Select the desired setting.

#### 5 Confirm the operating start time.



- Power lamp and Time display light. → The ON timer is set.

The unit informs you if you forget to press the Power button by making the Time display and Mode indicator blink and sounding an alarm for 1 minute.  
The following is an example of a display indicating AUTO dehumidifying (set to 60%), swing set to WIDE and the ON timer set for 5 hours.



- The time remaining until the unit switches itself on is indicated in increments of one hour with a flashing numeral.
- When the set time is reached, the unit switches itself on.

#### To cancel

Press the Power button. (Power off)



- The timer is cancelled.

**Information** The ON timer function is not operable using a commercially-available timer plug outlet.

### <<OFF timer operation>>

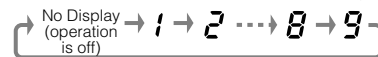
The OFF timer can be set for 1 to 9 hours.  
Set the timer when the power is switched on.

#### To set

- 1 Switch the power on.
- 2 Select operating mode.  
Select desired operating mode.
- 3 Change the louvre swing direction.  
Select the desired setting.
- 4 Set the operating time.

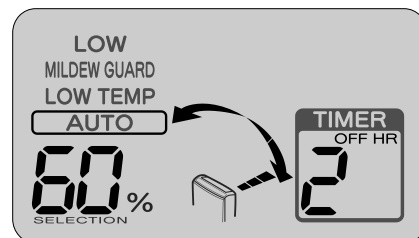


- When pressed once the figure [ : ] and [OFF] appear.
- Each subsequent press changes the display in order from 1 to 9 hours. (Hold the button to run automatically through the numbers.)



→ The OFF timer is set.

The following is an example of a display indicating AUTO dehumidifying (set to 60%), swing set to WIDE and the OFF timer set for 2 hours.



- The time remaining until the unit switches itself off is indicated in increments of one hour with a flashing numeral.
- When the set time is reached, the unit switches itself off and the louvre closes automatically.

#### To cancel

<When you want to turn the unit off>

Press the Power button. (Power off)



- The OFF Timer is cancelled.

<When you want to disable the Timer OFF mode, and continue operation>

Keep pressed until the remaining time display disappears. The unit returns to Low mode.



- The OFF Timer is cancelled.

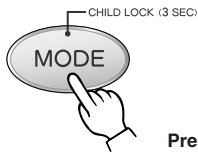
**Information**

- The OFF timer and ON timer cannot be set at the same time.
- Do not use the timer OFF mode in conjunction with Laundry or Midew guard.
- Empty the water tank before operating. The unit stops and the Tank full lamp lights if the tank becomes full during operation.



## <Using the Child Lock> **E16SX**

### To Lock

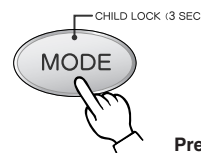


Press for 3 or more seconds.

- **The child lock indicator**

The child lock is switched off when the power cord is unplugged.

### Releasing the child lock



Press for 3 or more seconds.

- **The child lock lamp goes out.**

When the child lock is activated the unit cannot be switched off or on. The other switches are also inoperable until the child lock has been released.

- **If you lock the unit when the POWER is OFF.**

The unit will not turn on, even if you press the POWER switch to turn it on. Only the CHILD LOCK lamp will blink. (Press the POWER button once again so that the lamp lights.)

- **If you lock the unit when the POWER switch is ON.**

The unit will not turn off, even if you press the POWER switch to turn it off. Only the CHILD LOCK lamp will blink. (Press the POWER button once again so that the lamp lights.)

## 4. Technical Points

### 4.1 The technical points of the new products

#### **E16S**

#### 1) Powerful 16-liter/day humidifying \*1

Quick relief from the damp and uncomfortable sensation caused by humidity. Mold and fungus can grow when failing to dehumidify closets, dressing rooms, shoe cabinets and other spaces where humidity is prone to collect, causing damage to the home and clothing. A single high-capacity unit is effective in dehumidifying and drying various locations throughout the home, quickly moving from one point to the next. Mobilizing the 16-liter/day dehumidifying power, rooms can be dried out in about 40 minutes.\*2 Besides this, laundry drying takes about 120 minutes.\*3 This is a caliber of speedy dehumidification available only with the 16-liter type.

#### **E16SX**

#### 1) Powerful 16-liter/day humidifying \*1

Quick relief from the damp and uncomfortable sensation caused by humidity. Mold and fungus can grow when failing to dehumidify closets, dressing rooms, shoe cabinets and other spaces where humidity is prone to collect, causing damage to the home and clothing. A single high-capacity unit is effective in dehumidifying and drying various locations throughout the home, quickly moving from one point to the next. Mobilizing the 16-liter/day dehumidifying power, rooms can be dried out in about 40 minutes.\*2 Besides this, laundry drying takes about 120 minutes.\*3 This is a caliber of speedy dehumidification available only with the 16-liter type.

#### 2) Keep your house fresh year-round with the highly rated “135° wide-angle louvre”

The ability to switch between the three settings of (1) REAR swing, (2) UPWARD swing and (3) WIDE swing makes it possible to cope with different applications, for more effective dehumidifying than ever before.

(1)REAR swing → Effective for closets, shoe cabinets and around the kitchen.

(2)UPWARD swing → Effective for drying laundry, other uses. The swinging of the nozzle prevents uneven drying, while speeding up the overall process. Laundry drying time is approx. 104 minutes.\*3

(3)WIDE swing → Effective for quickly dehumidifying spacious room areas with the 135° wide-angle swing.

\*1 Dehumidifying volume when operating for 24 hours at room temperature 30°C and relative humidity 80%.

\*2 Test conditions: Room size 13m<sup>2</sup>, room temperature 25°C, time needed to reduce relative humidity from 90% to 60%.

\*3 Humidifier laundry drying performance displays values measured by the autonomous standards of the Japan Electrical Manufacturer's Association (JEMA-HD090) established in February 2001.

Test conditions: Room size 10m<sup>2</sup>, room temperature 25°C, relative humidity 70%, laundry weight approx. 2kg (including 2 dress shirts, 1 pair of pajamas, 3 T-shirts, 7 pairs of underwear, 3 face towels, 2 pairs of socks). Drying time will vary by the type of building, other conditions.



## 4.2 Operation and Performance

### Working temperature

Dehumidification is possible with a room temperature of 1 – 35°C. If the room temperature exceeds 35°C, however, the temperature inside the unit will increase; therefore, the protective device may activate and halt operation in some cases. For this reason, the louvres should be aimed upward.

- If the room temperature is lower than 1°C, there is danger of the removed water freezing, making dehumidification impossible, so the fan will start operating.

### Defrosting

The unit may display ❄ during operation and stop air flow, followed by a change in the operating noise. The unit has stopped the airflow, and is melting internal frost into the water tank. The unit will resume automatically when the defrost operation completes.

This operation will be performed automatically when the room temperature is approximately 15°C or lower. (When humidity is high, this will occur approximately once every 40 minutes for 5 – 10 minutes.)

### Wait for 3 minutes before dehumidifying

The dehumidifier will not operate for 3 minutes when the unit is turned on immediately after being turned off or plugged in. (In order to protect the compressor.) When dehumidifying begins, the operational noise increases. This is not a malfunction.

### Heating during operation

This dehumidifier has no cooler function. In fact it emits some heat causing the room temperature to rise by 2 to 4°C. The unit may produce warm air, but this is not due to a malfunction.

### Room size guide

The size of a room that can be dehumidified differs depending on the house structure and room style, etc.

| Model           |                                                                      | MJ-E16S/E16SX-S1 |
|-----------------|----------------------------------------------------------------------|------------------|
| Room size guide | Single wooden dwelling<br>Japanese style room                        | ~ 33m²           |
|                 | Single prefab dwelling<br>Western style room                         | ~ 51m²           |
|                 | Group housing (concrete, lightweight concrete)<br>Western style room | ~ 67m²           |

### Current Level of Humidity

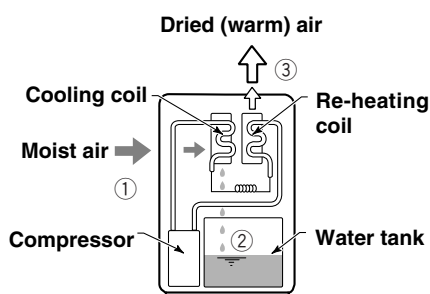
The current humidity indicated by the dehumidifier may sometimes differ from the humidity indicated by an ordinary hygrometer but this is not a malfunction.

1. If the air temperature at the location where the dehumidifier is installed and the place where the hygrometer is located differ, the relative humidity will also differ.
2. The flow of air (ventilation) also affects the humidity, which may differ for objects around the periphery and depending on the installation location, etc.

**What is relative humidity?**  
Relative humidity is the mass of water vapor present in the air expressed as a percentage of the mass that would be present in an equal volume of saturated air (100%) at the same temperature. The dehumidifier and an ordinary hygrometer indicate this relative humidity.

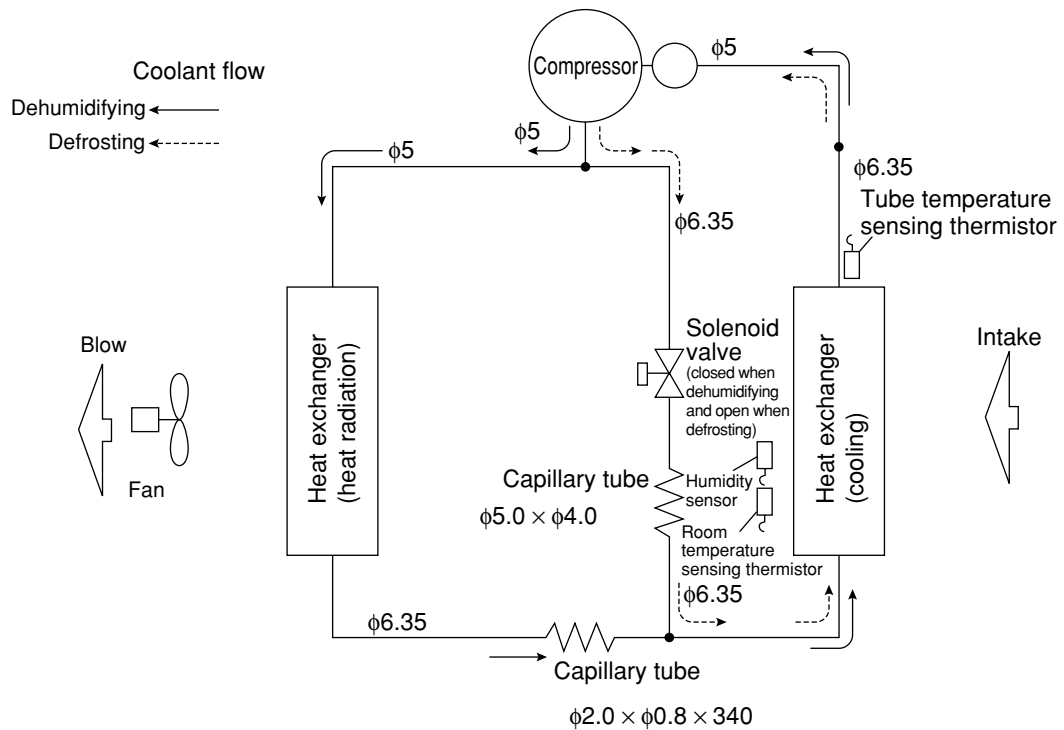
### How does the dehumidifier work?

If you pour cold water into a cup, the air around it becomes cold, causing water droplets to form on the surface of the cup. The dehumidifier takes advantage of this phenomenon to remove moisture from the air.



- ① The unit draws air from the room, cools it with its cooling coil, causing the moisture to transform into water droplets.
- ② The water droplets fall into the water tank.
- ③ The dehumidified air is reheated by the heating coil, and then discharged. The humidity of the room is thus reduced by repeating steps ①, ②, and ③.

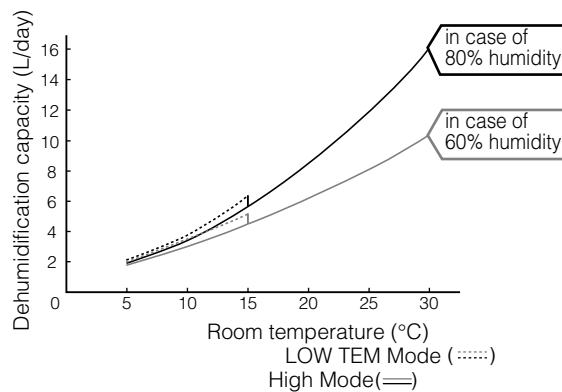
### 4.3 Coolant Circuit



### 4.4 Performance curve

#### Relationship between dehumidification and room temperature/humidity

The lower the temperature and humidity, the smaller the quantity of dehumidifying as shown on the graph.



#### • Operation in low temperatures

Operating the LOW TEMPERATURE mode produces greater dehumidification than when on HIGH for days when the temperature is low, but humidity is high due to snow or rain.

- The dehumidification quantities shown on the graph were measured at constant temperature and humidity, and do not reflect actual usage conditions.
- In winter, the air is so dry that dehumidification is almost impossible.

## 5. Daily checks and maintenance

### Maintenance

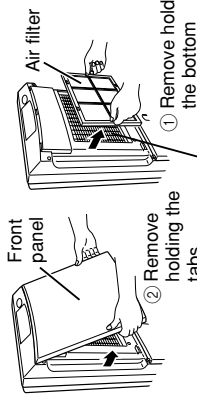
Do not use detergents, cleaning agents for heat exchange equipment, abrasive powders, chemically treated dusts, gasoline, benzene, thinners or other solvents, as they can damage the unit or the water tank, which may result in leakage.

| Cleaning                                                                                                                                                                                 |                                                                                                                                 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| <b>Water tank</b><br>Wipe with a soft cloth.  <p>Floating element<br/>Do not remove or dismantle.</p> | <b>Main unit</b><br>Wipe with a soft cloth.  |

### Once every two weeks

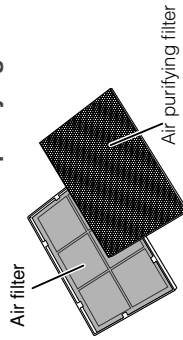
**Air filter** Debris clogging the air filter reduces the effectiveness of the dehumidifier.  
Clean once every 2 weeks.

#### 1 Remove front panel and air filter



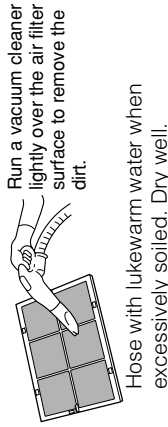
If the metal fin inside the main unit is slightly bent, the unit's performance is not affected.

#### 2 Remove the air-purifying filter



The air purifying filter cannot be washed in water.  
Replace the air purifying filter when it becomes dirty.

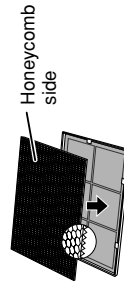
#### 3 Clean air filter



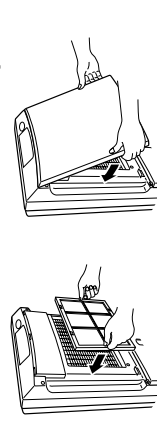
Hose with lukewarm water when excessively soiled. Dry well.

#### 4 Set the air-purifying filter

Set the air-purifying filter into the air filter with the honeycomb side up.



#### 5 Attach the air filter and front panel

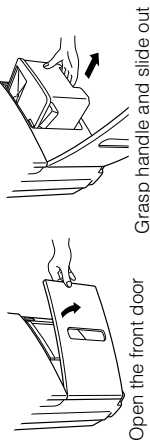


① Attach the holding tabs.  
② Hook the top edge to the top part of the unit and push the bottom in.

### Removing Water from the Tank

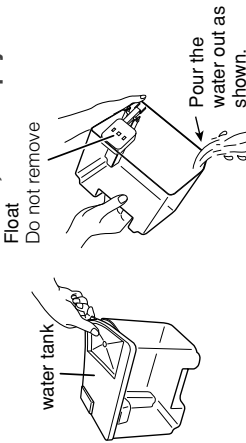
The unit automatically shuts down and lights the Tank full lamp when the tank (approximately 4L) is full. Empty the tank.

#### 1 Remove the water tank.



<Hold the tank this way.>

#### 2 Remove the tank lid, and empty.



#### 3 Reattach the tank lid and replace the water tank.



- If the lid is not properly closed, you may have problems removing the tank.
- If the tank is not installed correctly, the tank full light will come on, and the unit will not operate.

Do not remove or dismantle the floating element in the tank. If it is removed, the unit cannot detect when the tank is full, and this could result in leakage.

Note

### Replacing the Air Purifying Filter

The air purifying filter is disposable.

The air purifying filter is disposable. Make sure to replace the filter when it becomes dirty. (The filter cannot be washed or reused.)

When to replace it

Replace the filter when it becomes dirty (brownish) with cigarette smoke, dust, etc. Generally, one filter should last about 6 months. (This will depend on usage conditions.)

### Replacing air purifying filter

For maintenance procedures see p10.

- 1 Remove front panel and air filter
- 2 Replace air-purifying filter
- 3 Attach air filter and front panel

#### Parts sold separately

Air purifying filter for replacement

● Type: MJPP-SXFT

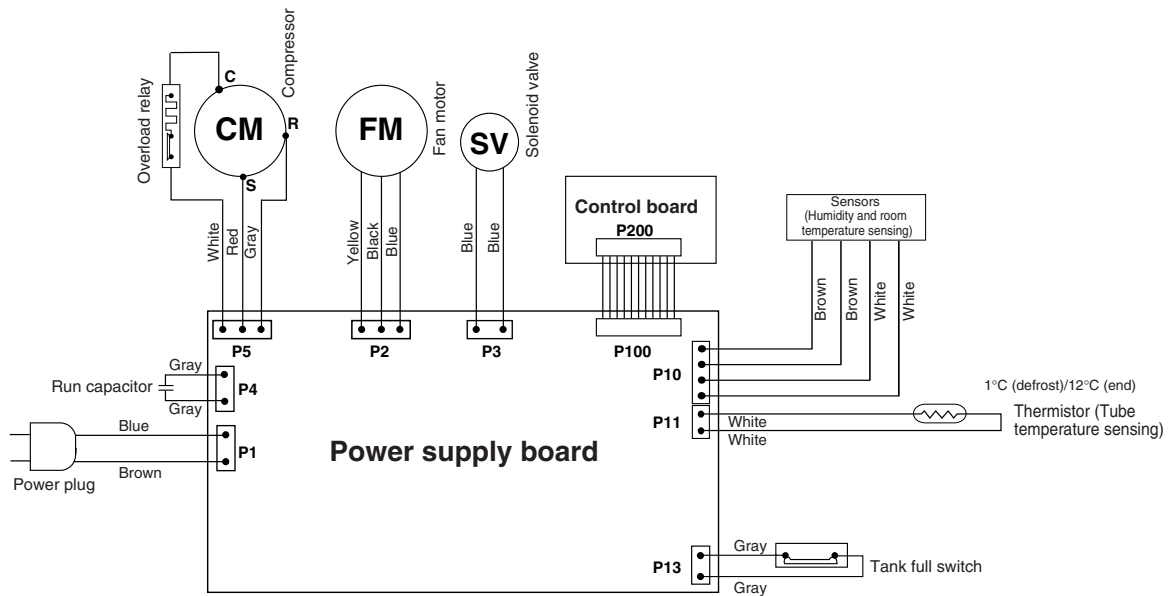
● Type code: 5C5 813

For these items contact your nearest Mitsubishi Electric dealer.

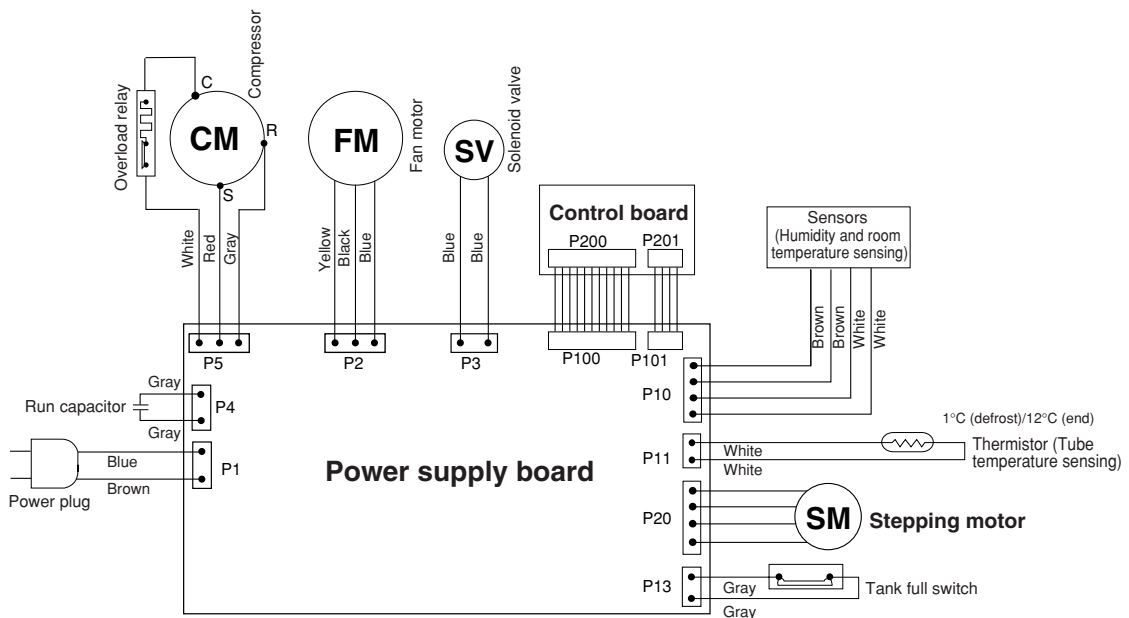
## 6. Wiring Diagram and Block Diagram

### 6.1 Wiring Diagram

#### E16S



#### E16SX



### Safety Devices

- (1) Current fuse .....Overcurrent flow caused by deterioration in electrical parts or other problems turns the power source to OFF.  
<Current setting: 2A>
- (2) Motor protector .....Current flow exceeding 1.7A with compressor surface temperature of approx. 100°C shuts down compressor operation.  
(Overload relay) .....The compressor will also shut down when malfunctions or other problems cause the current flow to exceed 4.7A.
- (3) Control circuitry .....The room temperature thermister senses temperature below about 0°C, and shuts down the compressor.
- (4) Thermal fuse .....When blower motor temperature exceeds 134°C due to blower locking or other malfunctions, blower operation shuts down.

## 6.2 Function List

### E16S

|                |                    | Operation off | Operation mode          |     |         |          |              |                  |           |           |
|----------------|--------------------|---------------|-------------------------|-----|---------|----------|--------------|------------------|-----------|-----------|
|                |                    |               | Dehumidifying operation |     |         |          | Air purifier | Defrost          | Tank full | Off timer |
|                |                    |               | Easy Dehumidifying      | Low | Laundry | Low temp |              |                  |           |           |
| Compressor     |                    | OFF           | ON/OFF                  | ON  | ON      | ON       | OFF          | ON               | OFF       | OFF       |
| Blower         |                    | OFF           | ON/OFF                  | ON  | ON      | ON       | ON           | OFF              | OFF       | OFF       |
| Solenoid value |                    | OFF           | OFF                     | OFF | OFF     | OFF      | OFF          | ON               | OFF       | OFF       |
| Indicator      | Easy dehumidifying | ×             | ○                       | ×   | ×       | ×        | ×            | ○<br>One item is | ×         | ×         |
|                | Low                | ×             | ×                       | ○   | ×       | ×        | ×            |                  | ×         | ×         |
|                | Laundry            | ×             | ×                       | ×   | ○       | ×        | ×            |                  | ×         | ×         |
|                | Low temp           | ×             | ×                       | ×   | ×       | ○        | ×            |                  | ×         | ×         |
|                | Air purifier       | ×             | ×                       | ×   | ×       | ×        | ○            | ×                | ×         | ×         |
|                | Off timer          | ×             | △                       | △   | △       | △        | △            | △                | △         | ×         |
|                | Tank full          | ×             | ×                       | ×   | ×       | ×        | ×            | ×                | ○         | ×         |
|                | Defrost            | ×             | △                       | △   | △       | △        | △            | △                | ×         | ×         |
|                | Low temperture     | ×             | ×                       | ×   | ×       | ×        | ×            | ×                | ×         | ×         |

※ ○ = Lit. △ = Can light. × = Not lit.

### E16SX

|                |                        | Operation off | Operation mode          |      |              |          |                    |         |           |         |              |                    |                   |            |
|----------------|------------------------|---------------|-------------------------|------|--------------|----------|--------------------|---------|-----------|---------|--------------|--------------------|-------------------|------------|
|                |                        |               | Dehumidifying operation |      |              |          |                    |         | Tank full | Defrost | Off timer on | On timer being set | On timer counting | Child lock |
|                |                        |               | LOW                     | Auto | Mildew guard | Low Temp | Easy dehumidifying | Laundry |           |         |              |                    |                   |            |
| Compressor     |                        | OFF           | —                       | —    | —            | ON       | —                  | —       | OFF       | ON      | —            | OFF                | OFF               | —          |
| Blower         |                        | OFF           | —                       | —    | —            | ON       | —                  | —       | OFF       | OFF     | —            | OFF                | OFF               | —          |
| Solenoid valve |                        | OFF           | OFF                     | OFF  | OFF          | OFF      | OFF                | OFF     | OFF       | ON      | —            | OFF                | OFF               | —          |
| Swing louvre   |                        | Closed        | ▲                       | ▲    | ▲            | △        | ▲                  | ▲       | OFF       | OFF     | △            | Closed             | Closed            | —          |
| LED indicator  | Power                  | ×             | ○                       | ○    | ○            | ○        | ○                  | ○       | ×         | ○       | ○            | ◎                  | ○                 | —          |
|                | Easy selection mode    | ×             | ×                       | ×    | ×            | ×        | ○                  | ○       | ×         | □       | □            | ■                  | □                 | —          |
|                | Tank full              | ×             | ×                       | ×    | ×            | ×        | ×                  | ×       | ○         | ×       | ×            | ×                  | ×                 | —          |
| LCD indicator  | Humidity (set/current) | ○             | ○                       | ○    | ○            | ○        | ○                  | ○       | ○         | ○       | ○            | ○                  | ○                 | —          |
|                | Operation mode         | ×             | LOW                     | AUTO | Mildew guard | Low Temp | ×                  | ×       | ×         | □       | □            | ■                  | □                 | —          |
|                | Swing                  | ×             | △                       | △    | △            | △        | △                  | △       | ×         | ▼       | △            | ▼                  | ▼                 | —          |
|                | On/off timer           | ×             | ×                       | ×    | ×            | ×        | ×                  | ×       | ×         | ×       | ○ Off        | ◎ On               | ○ On              | —          |
|                | Mildew/guard           | —             | ×                       | ×    | ×            | ×        | ×                  | ×       | ×         | ×       | ×            | ×                  | ×                 | —          |
|                | Defrost                | ×             | —                       | —    | —            | —        | —                  | —       | —         | ○       | —            | ×                  | ×                 | —          |
|                | Low temp               | ×             | ☆                       | ☆    | ☆            | ☆        | ☆                  | ☆       | ×         | ☆       | ☆            | ☆                  | ☆                 | —          |
|                | Child lock             | —             | —                       | —    | —            | —        | —                  | —       | —         | —       | —            | —                  | —                 | ○          |
|                | Operation              | ○             | ○                       | ○    | ○            | ○        | ○                  | ○       | ○         | ○       | ○            | ○                  | ○                 | ×          |
| Switch         | Auto                   | ×             | ○                       | ○    | ○            | ○        | ○                  | ○       | ×         | ○       | ○            | ○                  | ○                 | ×          |
|                | Operation switch       | ×             | ○                       | ○    | ○            | ○        | ○                  | ○       | ×         | ○       | ○            | ○                  | ○                 | ×          |
|                | Selection              | ×             | ○                       | ○    | ○            | ○        | ○                  | ○       | ×         | ○       | ○            | ○                  | ○                 | ×          |
|                | Swing louvre           | ×             | ○                       | ○    | ○            | ○        | ○                  | ○       | ×         | ○       | ○            | ○                  | ○                 | ×          |
|                | On/off timer           | ○             | ○                       | ○    | ○            | ○        | ○                  | ○       | ○         | ○       | ○            | ○                  | ○                 | ×          |
|                | Child lock             | ○             | ○                       | ○    | ○            | ○        | ○                  | ○       | ○         | ○       | ○            | ○                  | ○                 | ○          |

Note ○ : Display lamp/Operable  
 ◎ : Timer – flashes when on  
 × : Off/stopped/inoperable  
 △ : Operable only when swing on/lit  
 ▲ : Operable only when swing on and blower fan rotates

▼ : Only lit (only displays swing range)  
 □ : LCD lights at each operation mode  
 ■ : LCD flashes at each operation mode  
 ☆ : Lights at room temperatures of 14°C or under  
 — : Varies by conditions.

## <Operation Control>

### ① Humidity set operation **E16SX**

(a) Compressor and blower fan operation will switch by current humidity and set temperature.

|                                    | Decline in current humidity | Rise in current humidity | Compressor | Blower fan rank |                 |             |
|------------------------------------|-----------------------------|--------------------------|------------|-----------------|-----------------|-------------|
|                                    |                             |                          |            | ←27°C           | 29°C →<br>←34°C | 36°C →<br>← |
| Current humidity<br>– Set humidity | ↓                           | ↑+5%                     | ON         | Rank 1          | Rank 2          | Rank 5      |
|                                    | +3%↓                        | ↑+1%                     | ON         | Rank 1          | Rank 2          | Rank 5      |
|                                    | –1%↓                        | ↑                        | OFF        | Stopped         | Stopped         | Stopped     |

### ② Specifications shared at all operation modes **E16SX**

(a) Dehumidifying will not start for about 2 seconds when turning the operation power on with the swing stopped. (However, humidifying will begin immediately when pressing the swing louvre switch within 2 seconds of turning the power on.)

(b) The compressor and blower fan will operate for about 7 minutes after turning on the operation switch or activating the compressor, regardless of humidity or temperature levels.

### ③ Low, Low Temp, Mildew Guard, Air Purifier, Laundry **E16S** **E16SX**

|                                | Compressor |       | Blower fan rank |                 |                 |             |        |        |        |        |
|--------------------------------|------------|-------|-----------------|-----------------|-----------------|-------------|--------|--------|--------|--------|
|                                |            |       | →<br>←14°C      | 16°C →<br>←27°C | 29°C →<br>←34°C | 36°C →<br>← |        |        |        |        |
|                                | E16S       | E16SX | E16S            | E16SX           | E16S            | E16SX       | E16S   | E16SX  | E16S   | E16SX  |
| Low                            | ON         | ON    | Rank 1          | Rank 1          | Rank 1          | Rank 1      | Rank 2 | Rank 2 | Rank 5 | Rank 5 |
| Low Temp                       | ON         | ON    | Rank 6          | Rank 6          | Rank 1          | Rank 1      | Rank 2 | Rank 2 | Rank 5 | Rank 5 |
| Mildew Guard <b>E16SX</b> only | –          | ON    | –               | Rank 1          | –               | Rank 1      | –      | Rank 2 | –      | Rank 5 |
| Air Purifier <b>E16S</b> only  | OFF        | –     | Rank 2          | –               | Rank 2          | –           | Rank 2 | –      | Rank 2 | –      |
| Laundry <b>E16S</b> only       | ON         | –     | Rank 3          | –               | Rank 4          | –           | Rank 4 | –      | Rank 5 | –      |
| Laundry <b>E16SX</b> only      | –          | ON    | –               | Rank 3          | –               | Rank 4      | –      | Rank 4 | –      | Rank 5 |

\* Rank 1=Lb, Rank 2=La, Rank 3=Mi, Rank 4=Hi, Rank 5=HH, Rank 6=SH

### ④ Mildew Guard mode **E16SX**

(a) Alternately activates/deactivates compressor or blower according to current humidity/time. (Fan rank is as shown in ②)

(b) Operates dehumidifier when Mildew guard mode is activated or every 24 hours after activation.

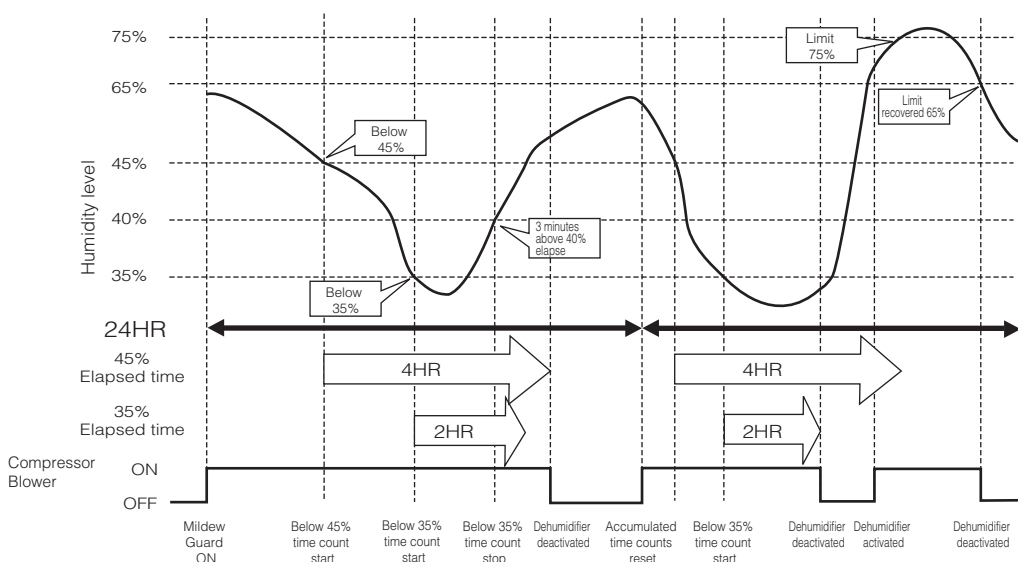
(c) Dehumidifier is deactivated when the following parameters are breached. (Compressor and blower stop)

- 2 hours of below 40% elapses and below 35% is detected.
- 4 hours of below 50% elapses and below 45% is detected.

\* However, if the humidity rises above the given levels for more than 3 minutes, the accumulated time returns to zero.

(d) If the humidity rises to 75% after deactivation, the dehumidifier automatically operates until the humidity is brought down to 65%.

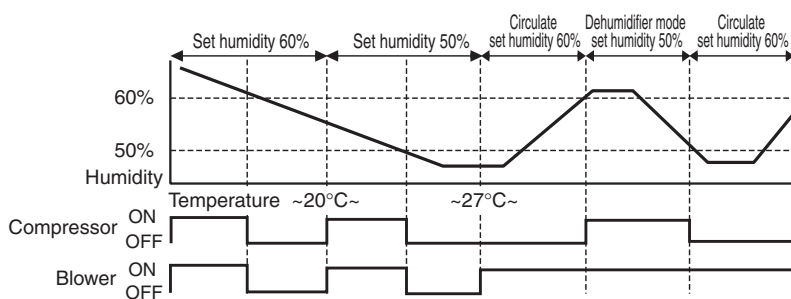
(e) If 24 hours elapse from the time the unit was turned on, all accumulated time counts for all humidity levels are reset.



⑤ Easy Dehumidifier **E16S** **E16SX**

- (a) Modifies humidity setting or operates CIRCULATE mode (blower only mode) according to the room temperature.  
 (b) Switches temperature table every 60 seconds to prevent the blower from turning on and off at the 3-minute restart for the coloured section in the chart below. (51% – 59%)  
 (c) When the room temperature is above 29°C (temperature rising) or 27°C (temperature decreasing), CIRCULATE mode operates with the humidity below 50%. The unit activates the dehumidifier when the humidity rises above 60%, and returns to CIRCULATE mode when the humidity drops below 50%.

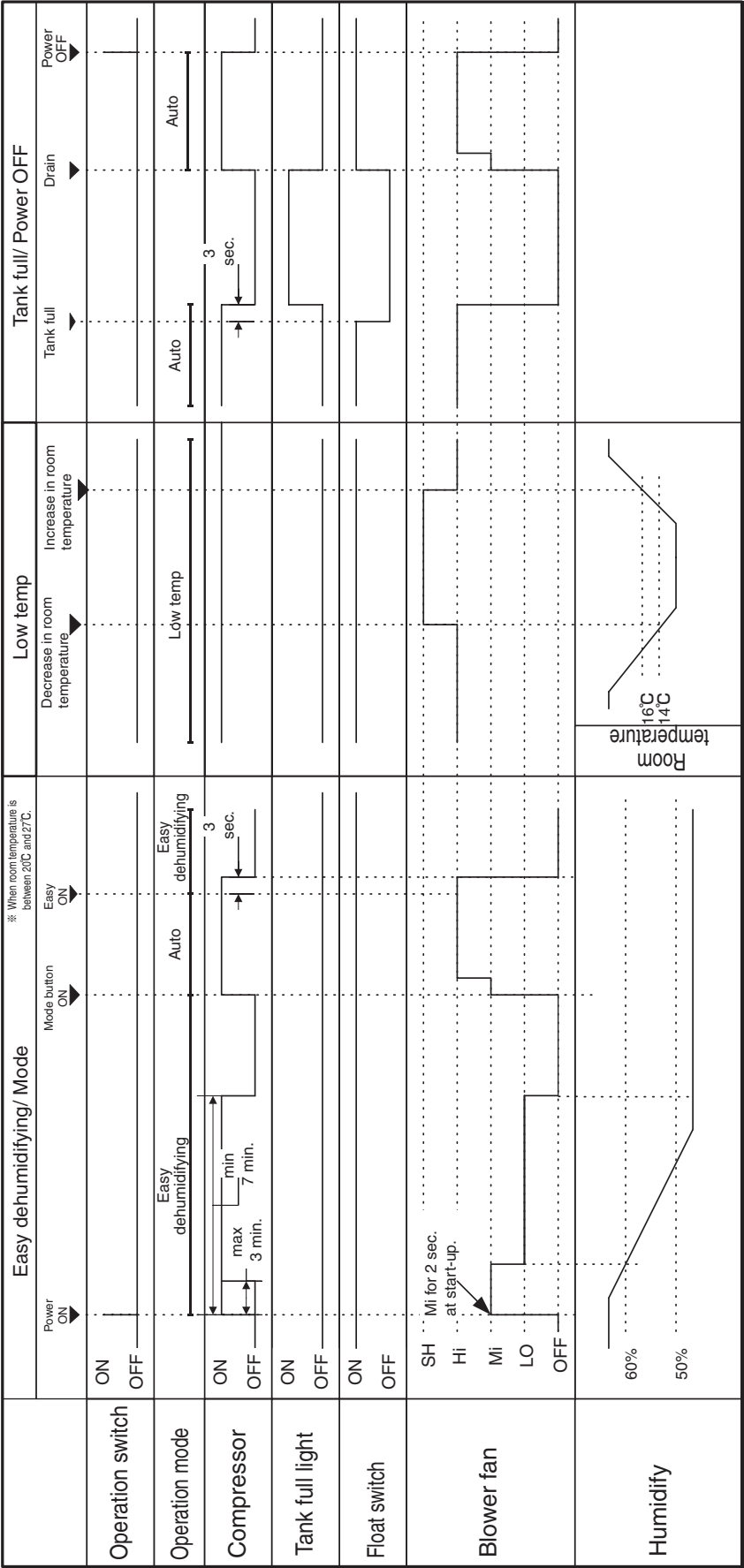
| Current humidity<br>– Set humidity |   | Temperature       | 22°C → | 29°C →           | 36°C →                   |
|------------------------------------|---|-------------------|--------|------------------|--------------------------|
|                                    |   | ←20°C             | ←27°C  | ←34°C            |                          |
|                                    |   | Temperature table | 0      | 2                | 3                        |
| Set humidity                       |   | 60%               | 50%    | 60%<br>Circulate | 50%<br>Dehumidifier mode |
| ↓                                  | ↑ | Fan rank          | Rank 1 | Rank 1           | Rank 2                   |
|                                    |   | Compressor        | ON     | ON               | ON                       |
| +3%                                | ↑ | Fan rank          | Rank 1 | Rank 1           | Rank 2                   |
|                                    |   | Compressor        | ON     | ON               | ON                       |
| –1%                                | ↑ | Fan rank          | Stop   | Stop             | Rank 4                   |
|                                    |   | Compressor        | OFF    | OFF              | OFF                      |

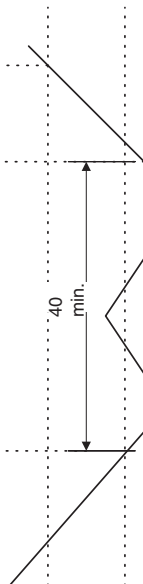




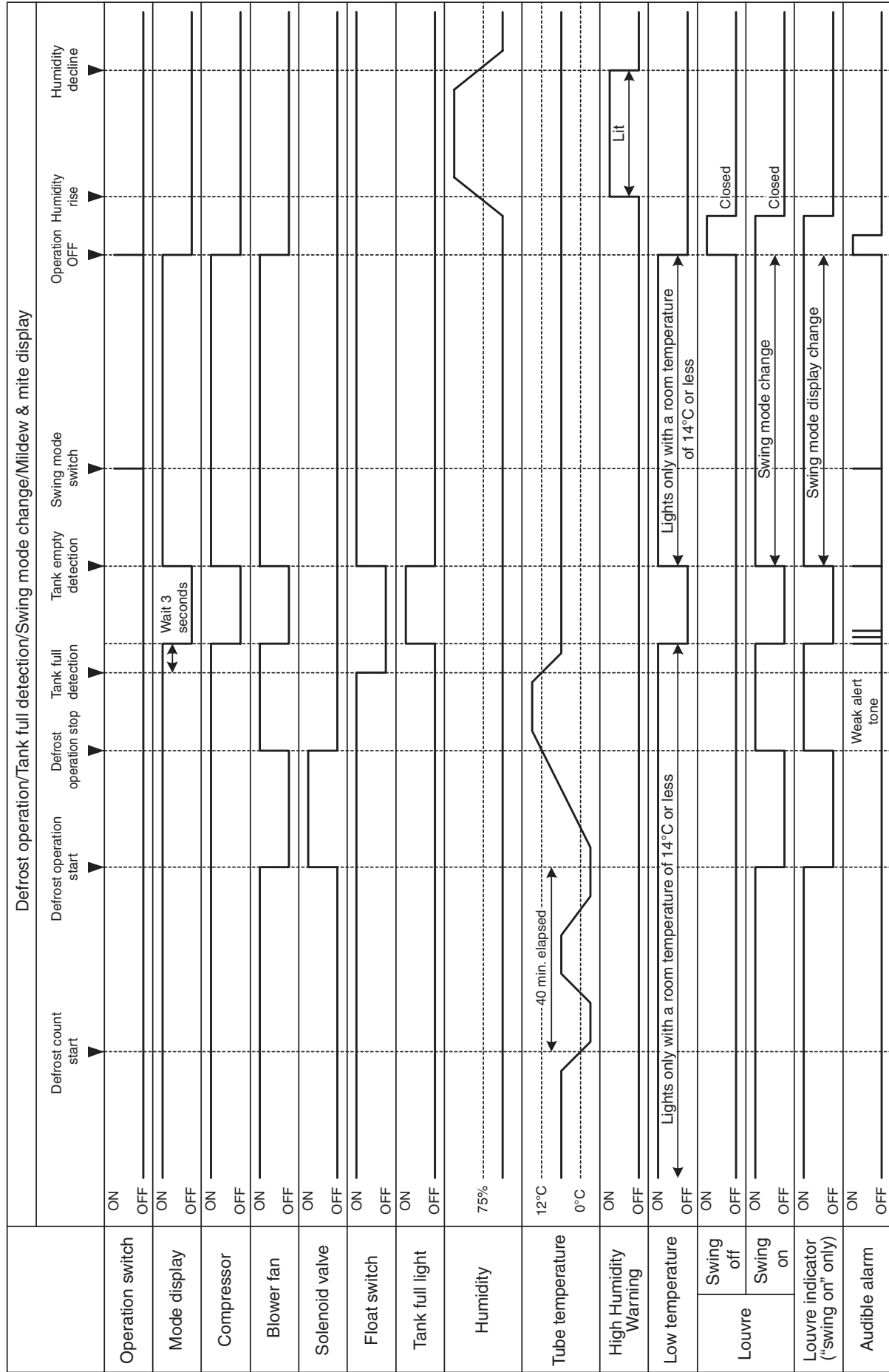
6.3 Timing Charts

E16S



|                  | Defrost             |                                                                                     |                | Off timer    |              |              |             |             |             |
|------------------|---------------------|-------------------------------------------------------------------------------------|----------------|--------------|--------------|--------------|-------------|-------------|-------------|
|                  | Defrost count start | Defrost start                                                                       | Defrost finish | Off timer ON | Off timer ON | Off timer ON | After 4 hr. | After 1 hr. | After 2 hr. |
| Operation switch | ON<br>OFF           |                                                                                     |                |              |              |              | 4 hr.       | 2 hr.       | 2 hr.       |
| Mode lamp        | ON<br>OFF           |                                                                                     |                |              |              |              |             |             |             |
| Timer lamp       | ON<br>OFF           |                                                                                     |                | 2 h r        | 4 h r        | 8 h r        | 4 h r       | 2 h r       |             |
| Timer button     | ON<br>OFF           |                                                                                     |                |              |              |              |             |             |             |
| Compressor       | ON<br>OFF           |                                                                                     |                |              |              |              |             |             |             |
| Solenoid valve   | ON<br>OFF           |                                                                                     |                |              |              |              |             |             |             |
| Blower fan       | ON<br>OFF           |                                                                                     |                |              |              |              |             |             |             |
| Tube temperature | 12°C<br>0°C         |  |                |              |              |              |             |             |             |

| Operation start/Mode switch/Operation stop |                      |                          |                     |                  |                  |                  |                                                     |              |                    |                  |                  |               |
|--------------------------------------------|----------------------|--------------------------|---------------------|------------------|------------------|------------------|-----------------------------------------------------|--------------|--------------------|------------------|------------------|---------------|
|                                            | Operation ON         | Dehumidifying stop       | Dehumidifying start | Operation switch | Operation switch | Operation switch | Operation switch                                    | Humidity set | Selection switch   | Selection switch | Selection switch | Operation OFF |
| Operation switch                           | ON<br>OFF            |                          |                     |                  |                  |                  |                                                     |              |                    |                  |                  |               |
| Mode display                               | ON<br>OFF            | AUTO (60%)               |                     | LOW              | MILDEW GUARD     | LOW TEMP         | AUTO (60%)                                          |              | EASY DEHUMIDIFYING |                  | LAUNDRY          |               |
| Compressor                                 | ON<br>OFF            | Max 3 min.<br>Min 7 min. |                     |                  |                  |                  | Wait 3 seconds                                      |              | Wait 3 seconds     |                  |                  |               |
| Blower fan                                 | ON<br>OFF            |                          |                     |                  |                  |                  |                                                     |              |                    |                  |                  |               |
| Solenoid valve                             | ON<br>OFF            |                          |                     |                  |                  |                  |                                                     |              |                    |                  |                  |               |
| Float switch                               | ON<br>OFF            |                          |                     |                  |                  |                  |                                                     |              |                    |                  |                  |               |
| Tank full light                            | ON<br>OFF            |                          |                     |                  |                  |                  |                                                     |              |                    |                  |                  |               |
| Humidity                                   | 61 %<br>60 %<br>59 % |                          |                     |                  |                  |                  |                                                     |              |                    |                  |                  |               |
| Tube temperature                           | 12°C<br>0°C          |                          |                     |                  |                  |                  |                                                     |              |                    |                  |                  |               |
| High Humidity Warning                      | ON<br>OFF            |                          |                     |                  |                  |                  |                                                     |              |                    |                  |                  |               |
| Low temperature                            | ON<br>OFF            |                          |                     |                  |                  |                  | Lights only with a room temperature of 14°C or less |              |                    |                  |                  |               |
| Louvre                                     | Swing off            | Stopped at 90°<br>Closed |                     |                  |                  |                  |                                                     |              |                    |                  |                  | Closed        |
|                                            | Swing on             |                          |                     |                  |                  |                  |                                                     |              |                    |                  |                  | Closed        |
| Louvre indicator ("swing on" only)         | ON<br>OFF            |                          |                     |                  |                  |                  |                                                     |              |                    |                  |                  |               |
| Audible alarm                              | ON<br>OFF            |                          |                     |                  |                  |                  |                                                     |              |                    |                  |                  |               |

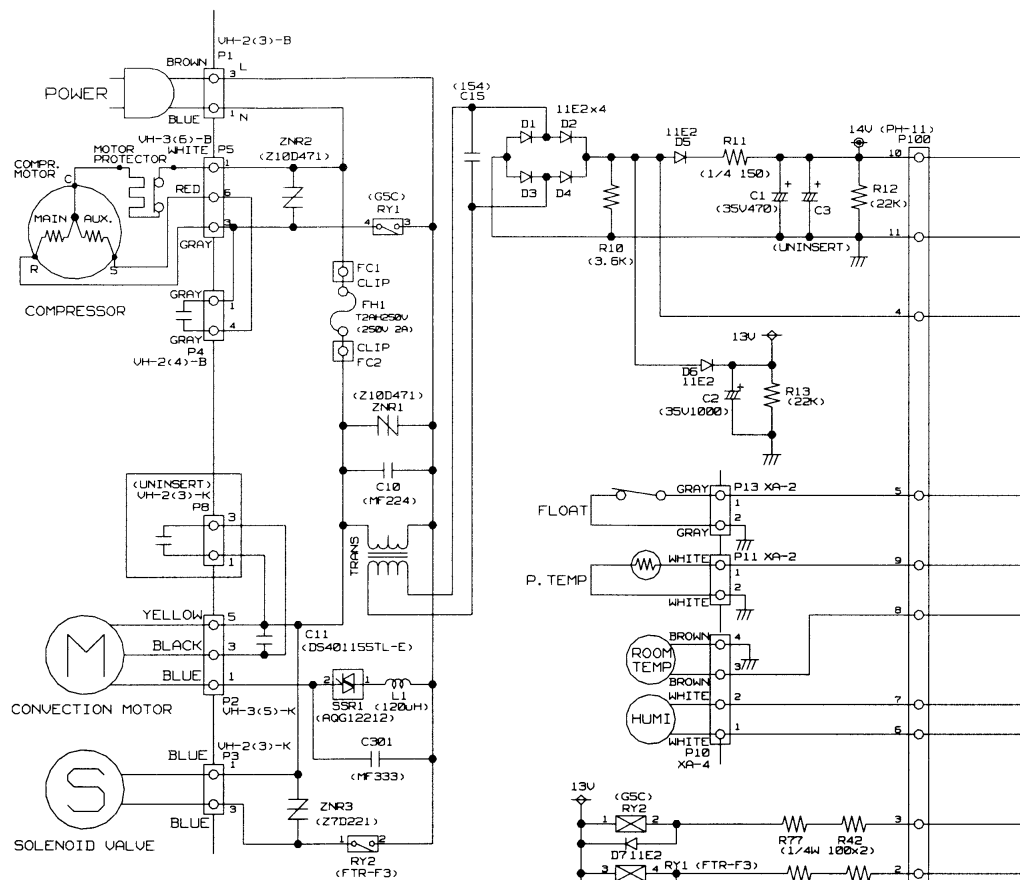


| On/off timer operation             |           | On timer ON | On timer ON (Set to 2 hours) | 1 hour elapsed | 2 hour elapsed | Off timer ON | Off timer ON | 1 hour elapsed | 2 hour elapsed |
|------------------------------------|-----------|-------------|------------------------------|----------------|----------------|--------------|--------------|----------------|----------------|
| Operation switch                   | ON        | ON          | ON                           | ON             | ON             | ON           | ON           | ON             | ON             |
|                                    | OFF       | OFF         | OFF                          | OFF            | OFF            | OFF          | OFF          | OFF            | OFF            |
| Mode display                       | ON        | ON          | ON                           | ON             | ON             | ON           | ON           | ON             | ON             |
|                                    | OFF       | OFF         | OFF                          | OFF            | OFF            | OFF          | OFF          | OFF            | OFF            |
| Compressor                         | ON        | ON          | ON                           | ON             | ON             | ON           | ON           | ON             | ON             |
|                                    | OFF       | OFF         | OFF                          | OFF            | OFF            | OFF          | OFF          | OFF            | OFF            |
| Blower fan                         | ON        | ON          | ON                           | ON             | ON             | ON           | ON           | ON             | ON             |
|                                    | OFF       | OFF         | OFF                          | OFF            | OFF            | OFF          | OFF          | OFF            | OFF            |
| Solenoid valve                     | ON        | ON          | ON                           | ON             | ON             | ON           | ON           | ON             | ON             |
|                                    | OFF       | OFF         | OFF                          | OFF            | OFF            | OFF          | OFF          | OFF            | OFF            |
| Float switch                       | ON        | ON          | ON                           | ON             | ON             | ON           | ON           | ON             | ON             |
|                                    | OFF       | OFF         | OFF                          | OFF            | OFF            | OFF          | OFF          | OFF            | OFF            |
| Tank full light                    | ON        | ON          | ON                           | ON             | ON             | ON           | ON           | ON             | ON             |
|                                    | OFF       | OFF         | OFF                          | OFF            | OFF            | OFF          | OFF          | OFF            | OFF            |
| Humidity                           | 75%       | ON          | ON                           | ON             | ON             | ON           | ON           | ON             | ON             |
|                                    | 12°C      | ON          | ON                           | ON             | ON             | ON           | ON           | ON             | ON             |
| Tube temperature                   | 0°C       | ON          | ON                           | ON             | ON             | ON           | ON           | ON             | ON             |
|                                    | ON        | ON          | ON                           | ON             | ON             | ON           | ON           | ON             | ON             |
| High Humidity Warning              | OFF       | OFF         | OFF                          | OFF            | OFF            | OFF          | OFF          | OFF            | OFF            |
|                                    | ON        | ON          | ON                           | ON             | ON             | ON           | ON           | ON             | ON             |
| Low temperature                    | OFF       | OFF         | OFF                          | OFF            | OFF            | OFF          | OFF          | OFF            | OFF            |
|                                    | ON        | ON          | ON                           | ON             | ON             | ON           | ON           | ON             | ON             |
| Louvre                             | Swing off | ON          | ON                           | ON             | ON             | ON           | ON           | ON             | ON             |
|                                    | Swing on  | OFF         | OFF                          | OFF            | OFF            | OFF          | OFF          | OFF            | OFF            |
| Louvre indicator ("swing on" only) | ON        | ON          | ON                           | ON             | ON             | ON           | ON           | ON             | ON             |
|                                    | OFF       | OFF         | OFF                          | OFF            | OFF            | OFF          | OFF          | OFF            | OFF            |
| Audible alarm                      | ON        | ON          | ON                           | ON             | ON             | ON           | ON           | ON             | ON             |
|                                    | OFF       | OFF         | OFF                          | OFF            | OFF            | OFF          | OFF          | OFF            | OFF            |



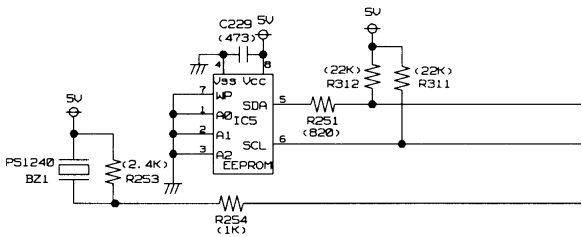
6.5 General Block Diagram

E16S



MODEL CHANGE

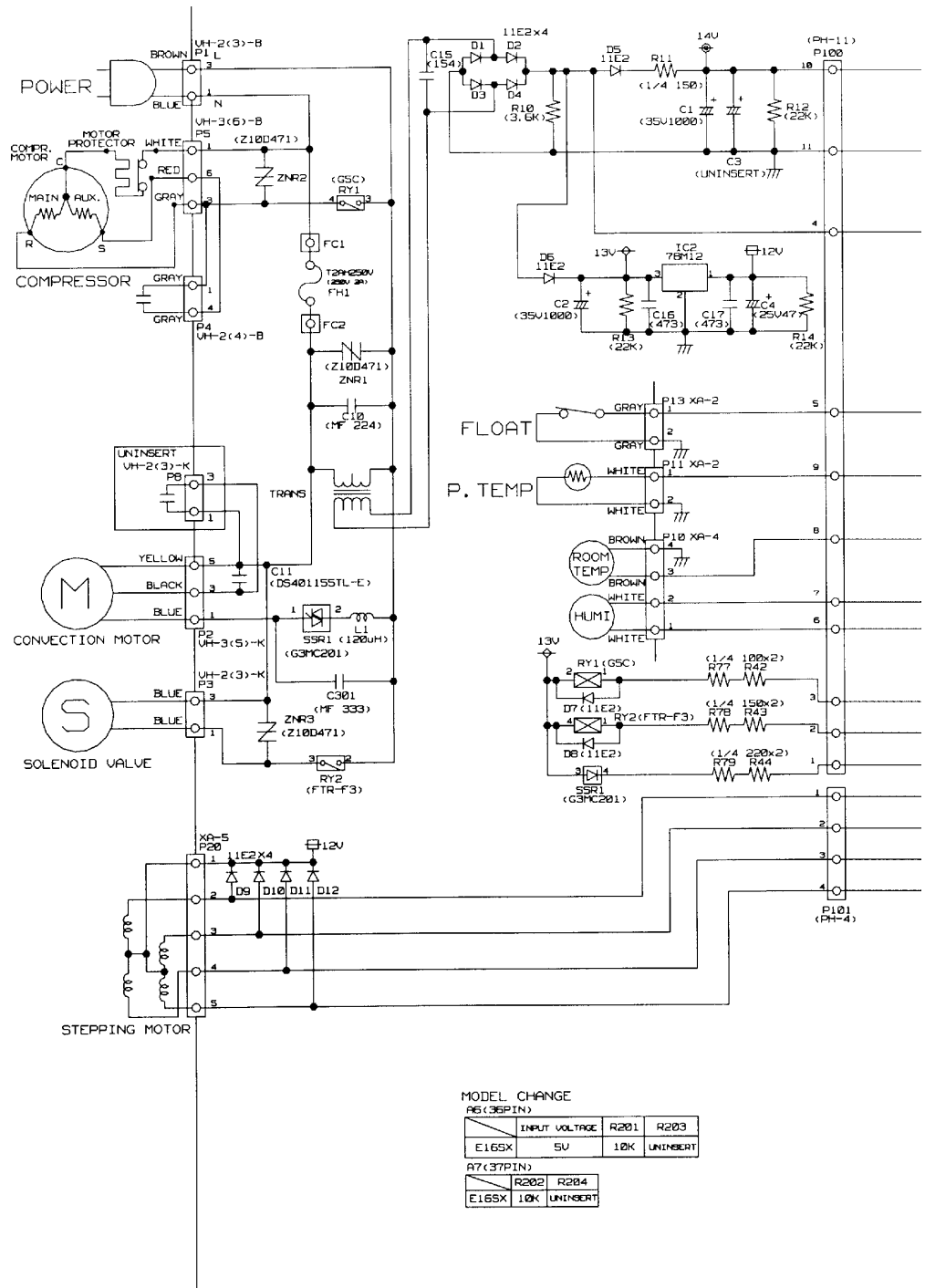
|      | R307 | R308 | R309     | R310     |
|------|------|------|----------|----------|
| E16S | 330  | 330  | UNINSERT | UNINSERT |

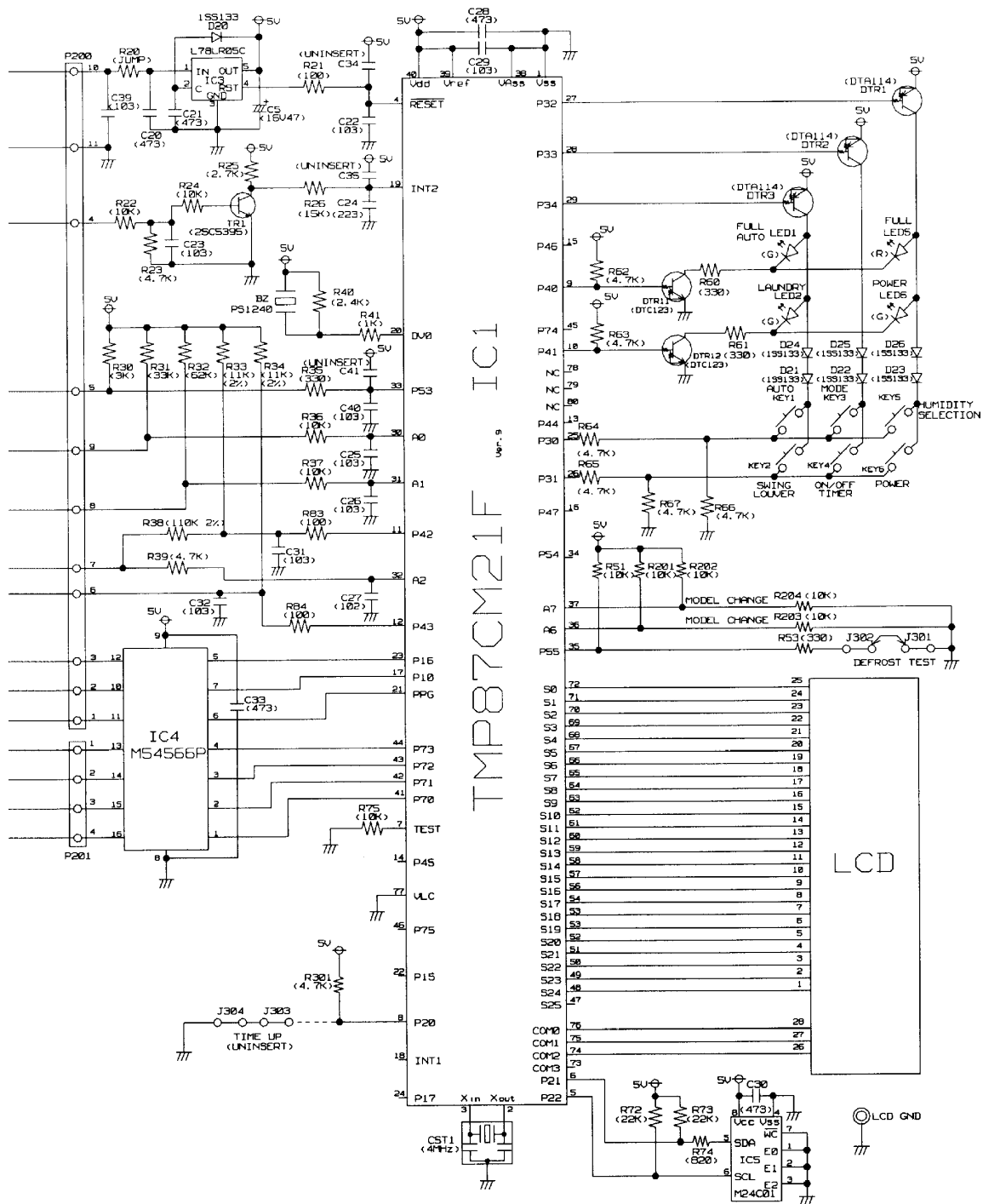






# E16SX



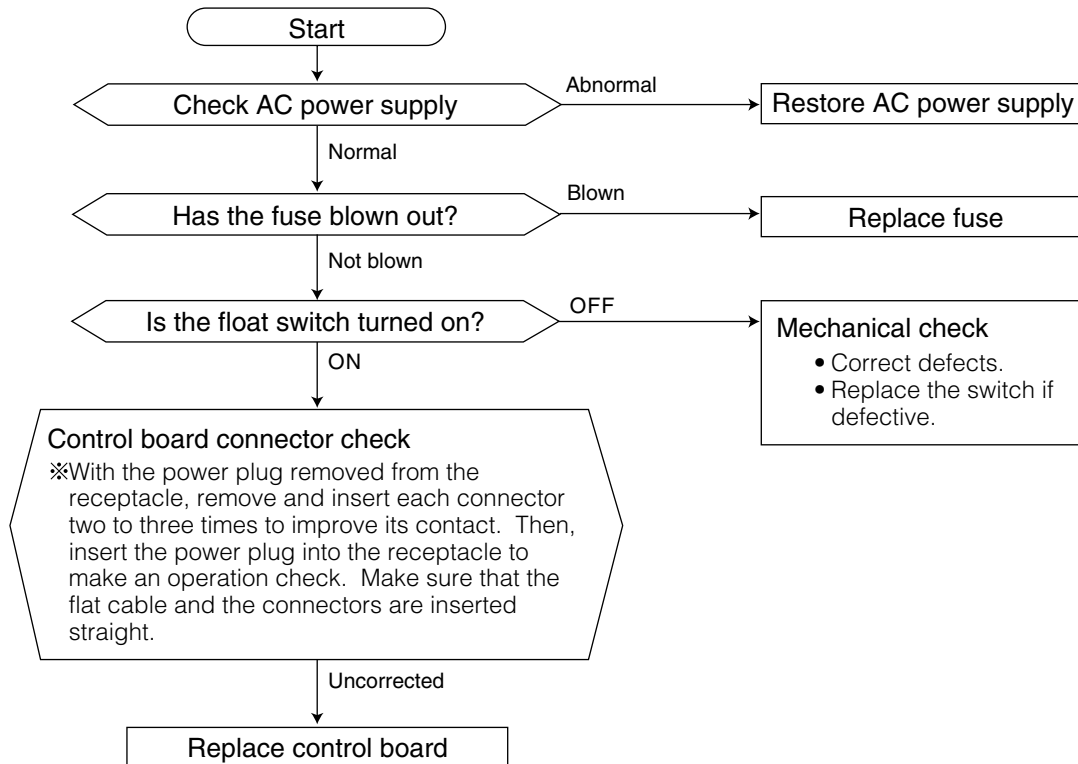


## 7. Troubleshooting Procedure

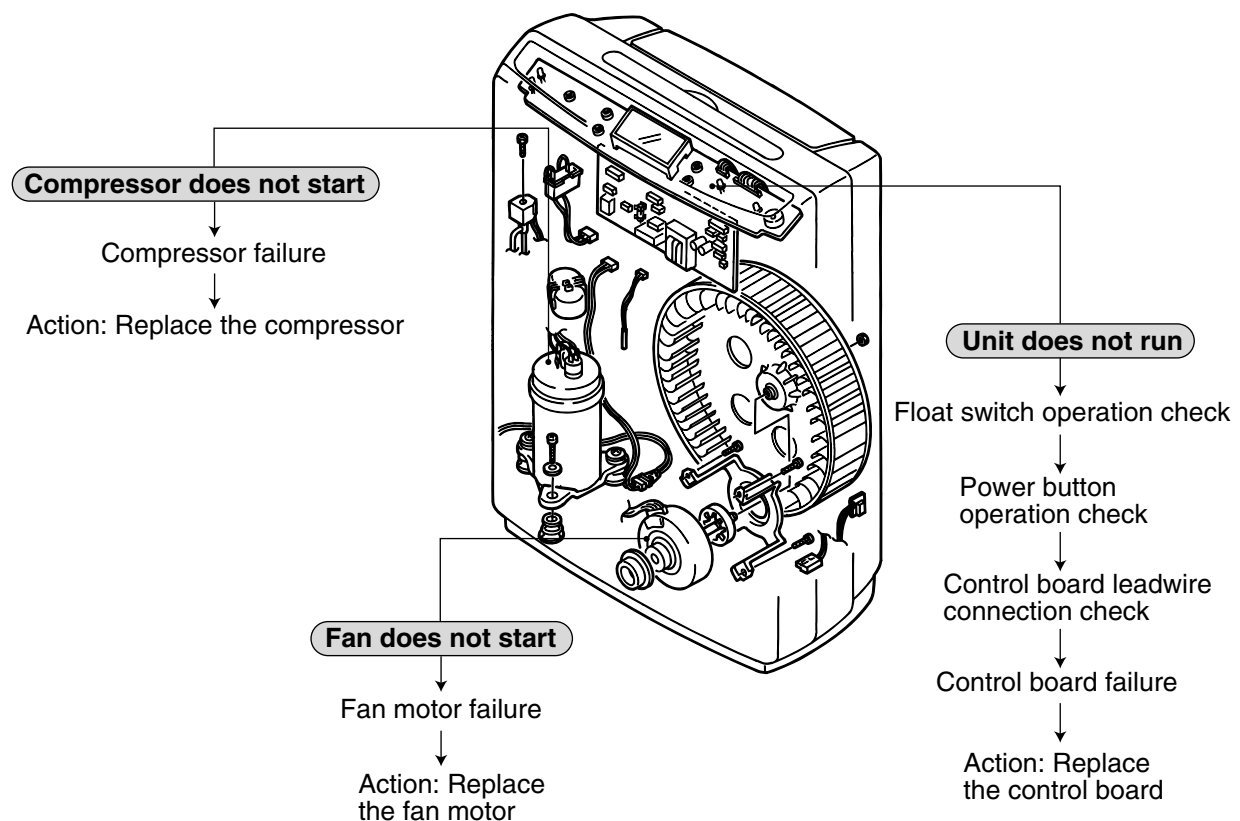
### 7.1 Troubleshooting flowchart

#### The unit does not operate

※ The compressor does not operate in Air purifier mode.



### 7.2 One-Point Service



※ If the customer complains that the unit won't dehumidify, make the following checks before starting to repair the coolant circuit:

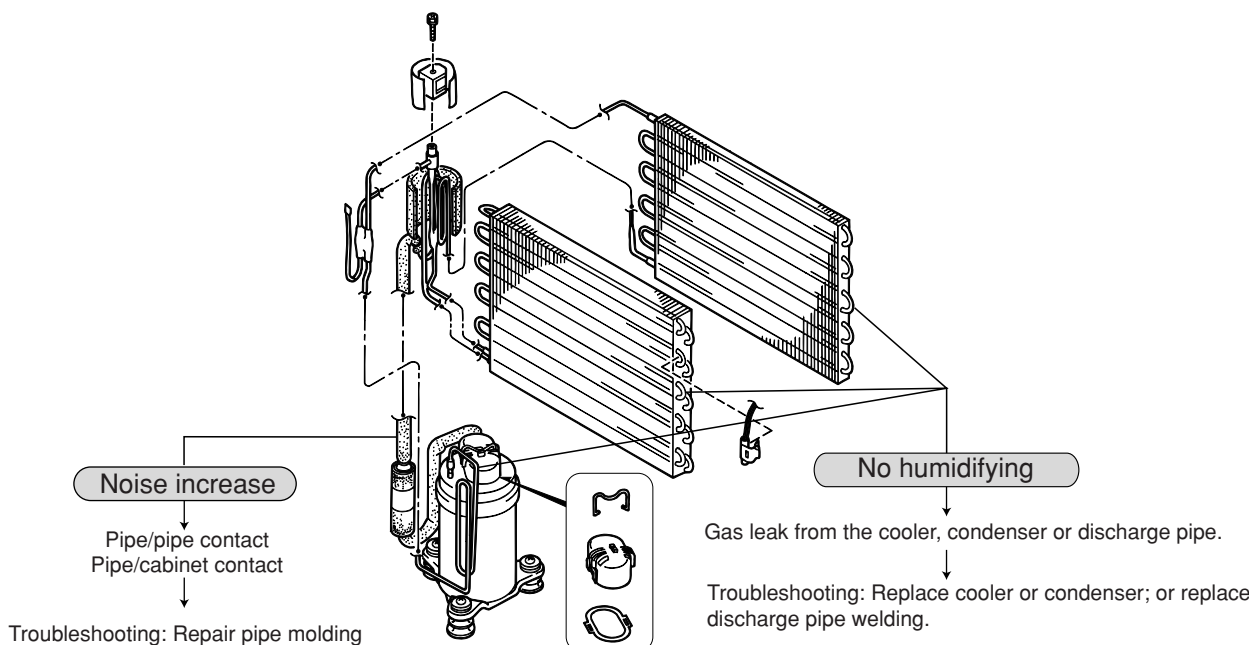
① Clogged filter, or dust: → Action: Clean.

② Low-temperature, low-humidity operating environment:

→ Action: See the explanation of the graph on page 9, or move the unit to a kitchen or bathroom and request verification of its performance.

★ If the problem persists, check the cooler tube temperature.

Normal: At least 10°C lower than the room temperature → If not lower than the room temperature by 10°C or more, repair the coolant circuit.



## 7.3 Key Component Check Procedures

| Component name                             | Testing procedure                                                                                                                |                 |
|--------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-----------------|
| Tub temperature sensing thermistor<br>P11  | Detach the connector and measure the resistance using a multimeter (component temperature: 10°C to 30°C).                        |                 |
|                                            | Normal                                                                                                                           | Abnormal        |
|                                            | Between P11 pins: 8.0kΩ to 20.8kΩ                                                                                                | Open or shorted |
| Room temperature and humidity sensor board | Detach the connector and measure the resistance using a multimeter (component temperature: 10°C to 30°C).                        |                 |
|                                            | Normal: 47 to 51kΩ (between P10 pins 3 and 4)<br>Abnormal: Open or shorted                                                       |                 |
| Compressor                                 | With the connector detached, measure the resistance across the terminals using a multimeter (winding temperature: 10°C to 30°C). |                 |
|                                            | Normal                                                                                                                           | Abnormal        |
|                                            | C-R side: 25.0Ω ~ 27.1Ω<br>C-S side: 67.9Ω ~ 73.5Ω                                                                               | Open or shorted |
| Fan motor                                  | Measure the resistance between terminals using a multimeter (winding temperature: 10°C to 30°C).                                 |                 |
|                                            | Normal                                                                                                                           | Abnormal        |
|                                            | Yellow-Blue: 258Ω ~ 280Ω<br>Black-Blue: 379Ω ~ 411Ω                                                                              | Open or shorted |
| Solenoid valve coil                        | Measure the resistance between terminals using a multimeter (component temperature: 10°C to 30°C).                               |                 |
|                                            | Normal                                                                                                                           | Abnormal        |
|                                            | 2.6kΩ ~ 2.9kΩ                                                                                                                    | Open or shorted |

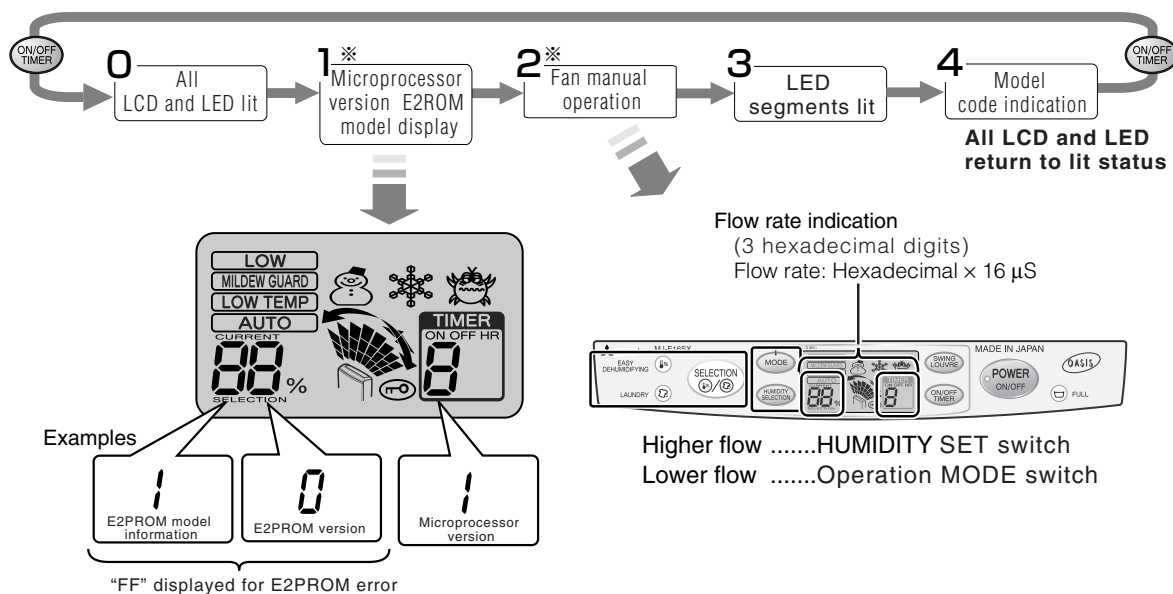
## 7.4 Error Indications and Corrective Actions

| Indication<br>(Timer display) |                     | Error (failure)                                                                         | Corrective action                                                                                                                                                                  |
|-------------------------------|---------------------|-----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| E16S                          | All Mode lamps lit  | Frequency determination error<br>Watchdog error<br>RAM error                            | Check power plug and 100V power supply<br>(Try replacing main and power supply boards)<br>Replace main board<br>(Try replacing main and power supply boards)<br>Replace main board |
|                               | All timer lamps lit | Compressor                                                                              | Check blowing performance<br>Check tube temperature thermistor<br>Check compressor operating noise                                                                                 |
| E16SX                         | E0                  | P10 connector out of position<br>Room temperature thermistor blowout                    | Check the P10 connection.<br>Check the room temperature and humidity sensor board.                                                                                                 |
|                               | E1                  | Room temperature thermistor short<br>Room temperature and humidity sensor board failure |                                                                                                                                                                                    |
|                               | E7                  | P11 connector out of position<br>Tube temperature thermistor blowout                    | Check the P11 connection.<br>Check the tube temperature thermistor.                                                                                                                |
|                               | E8                  | Tube temperature thermistor short<br>Tube temperature sensor failure                    |                                                                                                                                                                                    |
|                               | A1                  | Microprocessor failure<br>RAM error                                                     | Replace the main board.                                                                                                                                                            |
|                               | A2                  | Frequency determination error                                                           | Check the receptacle and the 100 V power supply (replace the main and power supply boards).                                                                                        |
|                               | A6                  | Watchdog timer error                                                                    | Replace the main board (replace the main and power supply boards).                                                                                                                 |
|                               | P4                  | Compressor                                                                              | Check blowing performance.<br>Check the tube temperature thermistor.<br>Check the compressor operating noise.                                                                      |

## 7.5 Self-Test Program and Execution Procedure E16SX

### (1) LCD and fan tests

- Start: Simultaneously press operation MODE and HUMIDITY SET switches four times with the power off. Press the operation switch within 2 seconds.
- Mode selection: Use the timer switch to change the diagnosis mode.

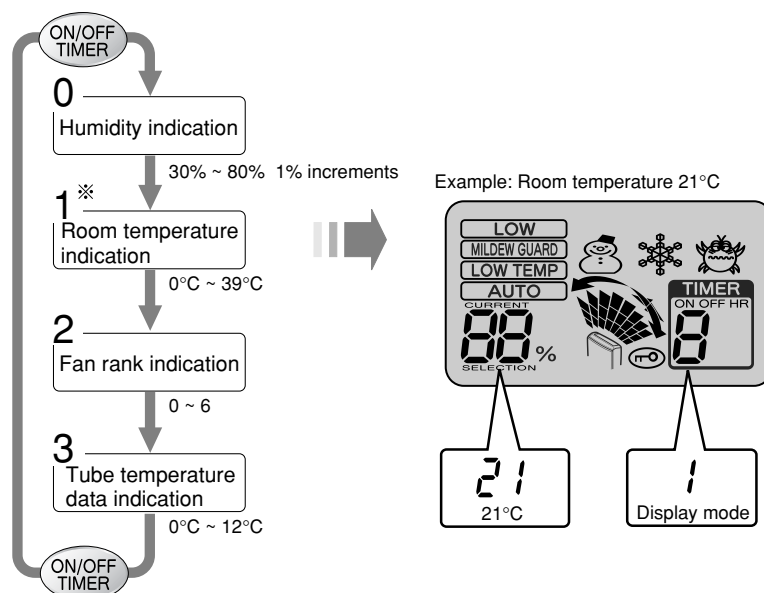


## (2) Deactivating 3-minute restart prevent lock

- Start: Press the MODE and HUMIDITY SELECTION buttons (Auto buttons for the E16S) together 3 times when the power is off. Press the POWER button within 2 seconds.
- Functions:
  - ① Deactivates 3-minute restart prevention lock
  - ② Activates compressor
  - ③ Operating mode: Low Temp
  - ④ Operates blower on HIGH
- To end: Turn power off. Valve functions for 3 seconds.

## (3) Monitor display **E16SX**

- Start: Press the MODE and HUMIDITY SELECTION buttons together 5 times when the power is off. Press the POWER button within 2 seconds.
- Mode selection: Use the time switch to change through display modes (0 to 3).

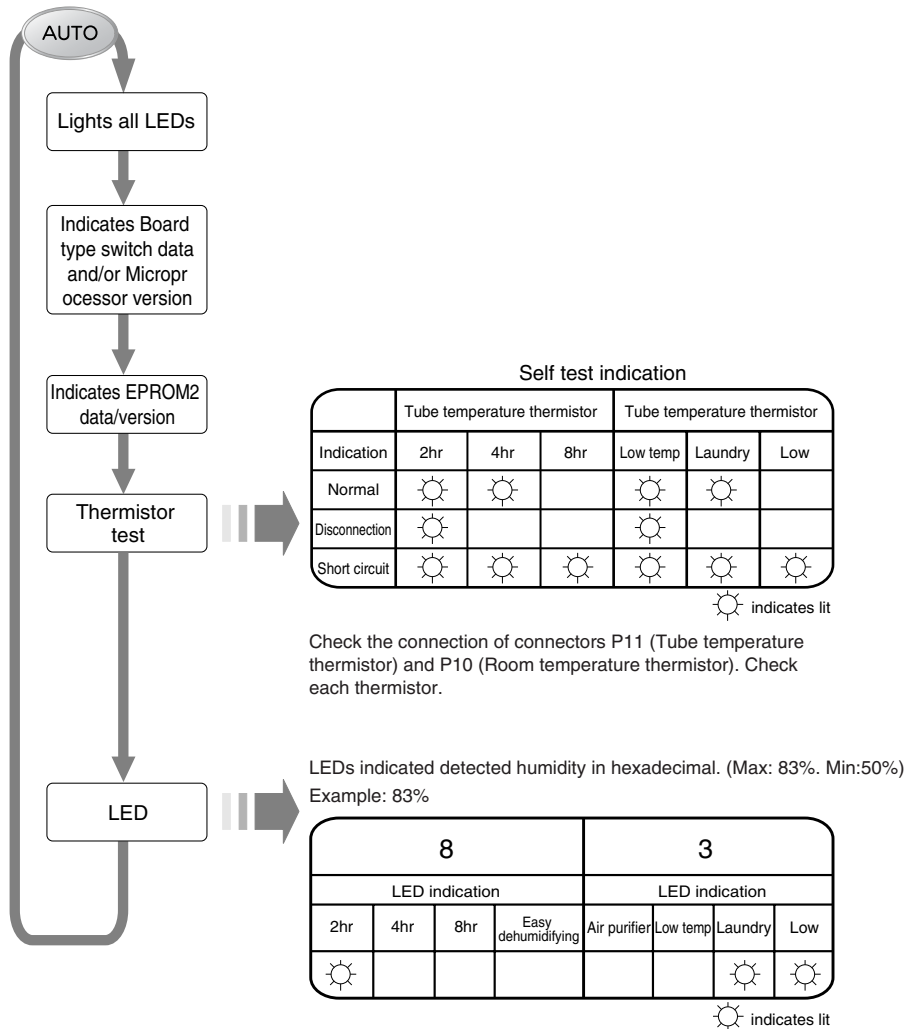


## (4) Demonstration program **E16SX**

- Start: Hold the MODE and HUMIDITY SELECTION buttons together and press the POWER button. The demonstration starts after 3 seconds.
- Functions:
  - ① Blower locked at rank 3.
  - ② Compressor and valve stopped.
  - ③ LCD and LED light at random.
- To end: Unplug

## (5) LED sensor test **E16S**

- Start..... Press the MODE and AUTO buttons together 4 times when the power is off. Press the POWER button within 2 seconds.
- Mode selection ..... Use the AUTO button to change through the self test modes.



## 8. Disassembly and Reassembly Hints

### 8.1 Disassembly Procedures

#### 1. Remove the water tank

(See Picture 1.)

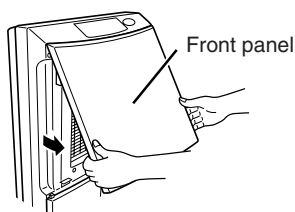
#### 2. Remove the front panel and air filter assembly

Steps 1) Hold down the bottom of the front panel and pull it forward (releasing the bottom side click clamp fittings). Then lift it upward and remove.

2) Hold down the air filter assembly knob part, then pull it forward and remove.

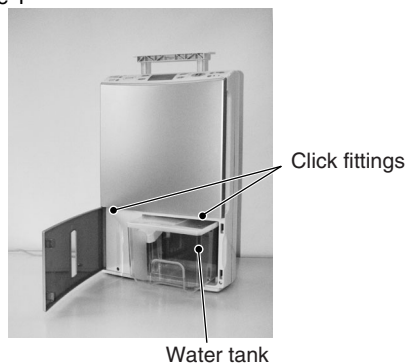
(See Figures 1 and 2)

Figures 1

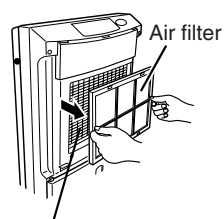


\* The pictures show an E16SX

Picture 1



Figures 2



Slight bending of the metal fan in the main unit will have no negative impact on performance.

#### 3. Remove the front case assembly

Steps 1) Following the sequence in Procedures 1 and 2 above, remove the water tank and front panel

2) Remove the front case setscrews (4 x 16 --- 2 screws, 4 x 12 --- 4 screws)

(See Picture 2)

3) Pull the front case assembly forward, and detach it slightly from the unit.

(See Picture 3)

4) Lift up the panel, and remove the power supply board setscrew (1).

(See Picture 4)

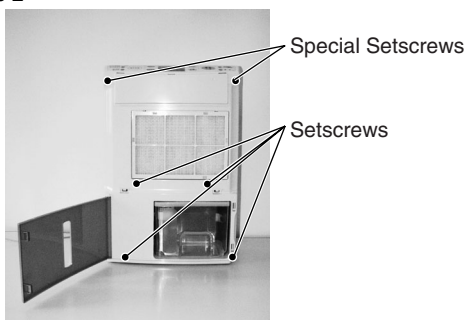
5) Pull the power supply board slightly forward, release the box cover click fittings (2 places) and remove the cover.

(See Picture 5)

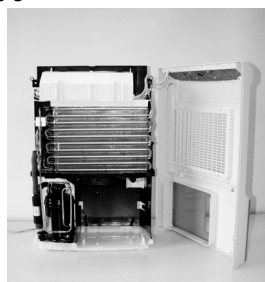
6) Disconnect the power supply board connectors P100 and P101 (the cable connectors linked to the main board), and detach the front case assembly.

(See Picture 6)

Picture 2



Picture 3



Repairable parts

Main board  
Power supply board  
Tube temperature sensor

Picture 4



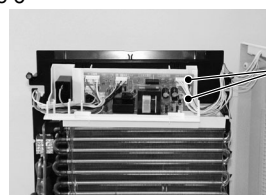
Power supply board box setscrew (1)

Picture 5



Click fittings

Picture 6



Power supply board connectors P100, P101



<<Remove the main board >>

Steps 1) Pull the front case switch operation part to the outside, detach the main board cover side switch button (convex part) fittings, and remove the main board cover assembly.

(See Picture 7)

2) Release the main board click fittings (4 points on the bottom), and remove the main board.

(See Pictures 8 and 9)

<<Remove the power supply board>>

Steps 1) Detach the connectors in the power supply board (P10, 11, 12, 13, 2, 3, 5, 1---8 connectors), and remove the power supply board.

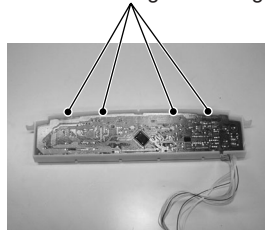
(See Picture 6)

Picture 7



Picture 8

Fastening click fittings



Picture 9



#### 4. Remove the rear case

Steps 1) Following the sequence in Procedures 1-3 above, remove the water tank, front panel and front case assembly.

2) Remove the rear case setscrews (6).

(See Picture 10)

3) Hold the bottom of the rear case and pull it to the outside, release the bottom fitting and then push upward while lifting the handle. Release the handle slip prevention fitting, and remove the handle.

(See Picture 11)

4) Pull the upper part of the rear case to the outside, and release the fitting between the screw fastening boss and blower fan assembly side fastening guide (one on each side).

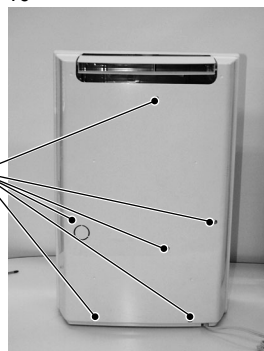
(See Picture 12)

5) Lift the rear case up, and remove by passing it under the louvre.

(See Picture 13, 14)

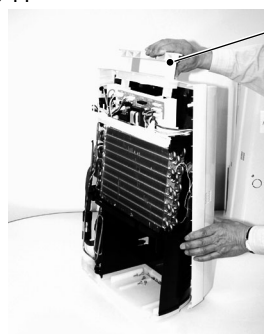
Picture 10

Rear panel setscrews



Picture 11

Handle



Repairable parts

Blower fan  
Temperature/humidity sensor,  
solenoid valve, float switch,  
thermal overcurrent cutoff

Picture 12

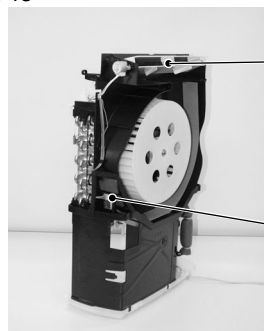


Fittings  
(one on each side)

Picture 13

Louvre

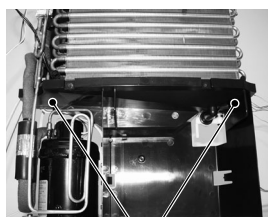
Temperature/humidity sensor



## 5. Remove the blower fan assembly

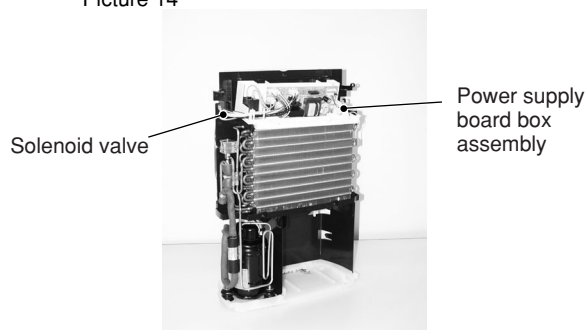
- Steps 1) Following the sequence in Procedures 1-4 above, remove the water tank, front panel, front case assembly and rear panel.
- 2) Remove the connectors (8) in the power supply board.
- 3) Remove the power supply board box assembly.  
(See Picture 15)
- 4) Disconnect the blower fan guide case lead wires on both sides from the guide case.
- 5) Pull off the humidity/temperature sensor side cushion tape from the drain pan, and disconnect the sensor lead wires from the guide case.  
(See Picture 15)
- 6) Release the blower fan assembly and drain pan click fittings on both sides, (pulling upward while tipping the upper part of the blower fan assembly toward the heat exchanger side), and remove the fan assembly.  
(See Picture 16, 17)

Picture 16

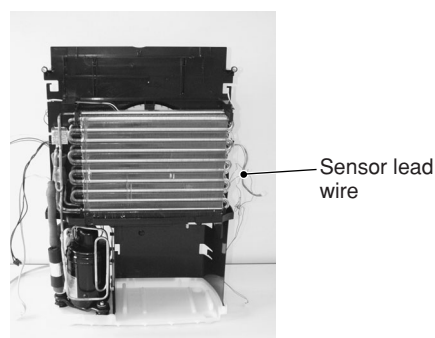


Click set fittings

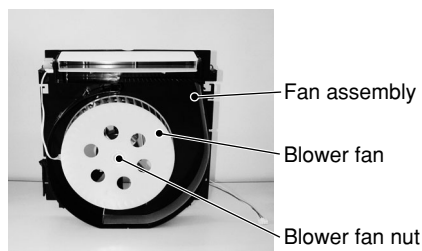
Picture 14



Picture 15



Picture 17



### Repairable parts

Blower fan, blower motor, float switch, heat exchanger (radiant heat, cooling)

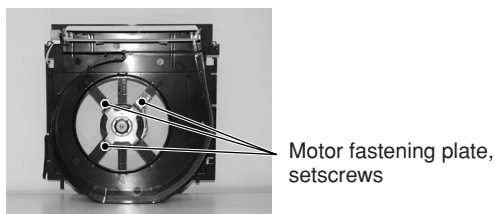
- Steps 1) Remove the blower fan check nuts and the blower fan itself.
- 2) Pull off the blower motor lead wire fastening tape, and disconnect the lead wires from the fan guide case.  
(See Picture 18)
- 3) Detach the motor fastening plate and cushion, and remove the blower motor.
- 4) Disconnect the blower fan guide case lead wires on both sides from the guide case.

### <<Float switch removal>>

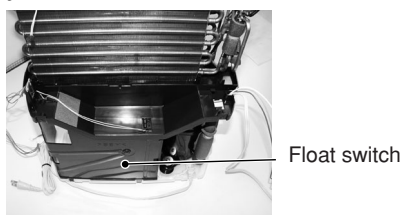
Remove the float switch attached to the drain pan.

(See Picture 19)

Picture 18



Picture 19



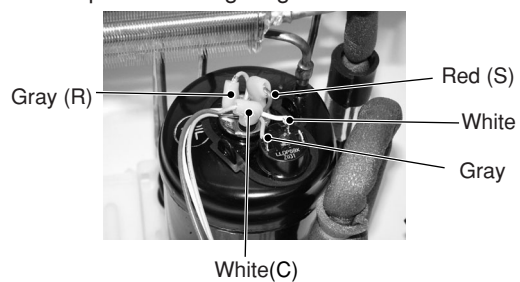
## 6. Removing the drain pan assembly

- Steps 1) Following the sequence in Procedures 1-3 above, remove the water tank, front panel, front case assembly, rear panel and blower fan assembly.
- 2) Release the drain pan and base fittings, lift up the right side of the heat exchanger while removing the base.  
(See Picture 20 and 21)

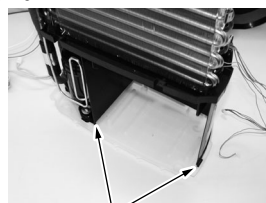
Repairable  
parts

Compressor

<Compressor wiring diagram>

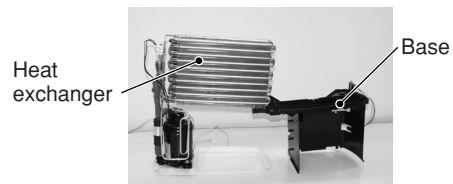


Picture 20



Drain pan and base fittings

Picture 21



## 9. Continuous Water Drainage

If a drain is available, the unit can continuously drain excess water by attaching a commercially available hose (internal diameter 15mm).

The unit can be operated for extensive periods without the need to empty the water tank.



**CAUTION**



**Do not drain water continuously if there is a possibility that temperatures around the hose could drop below freezing point.**

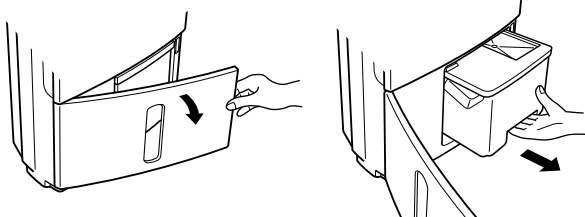
Water inside the hose may freeze and water may leak from the unit and **damage surrounding objects**.



**When draining water continuously or left unattended for long periods, inspect the unit once a fortnight.**

Foreign objects, etc. could clog the hose resulting in **overheating and/or leakage**.

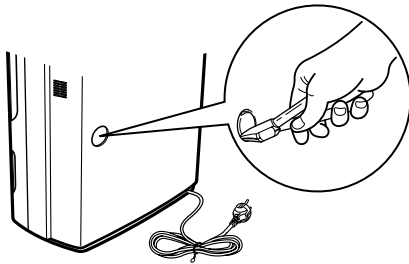
### 1 Remove the water tank.



Open the front door.

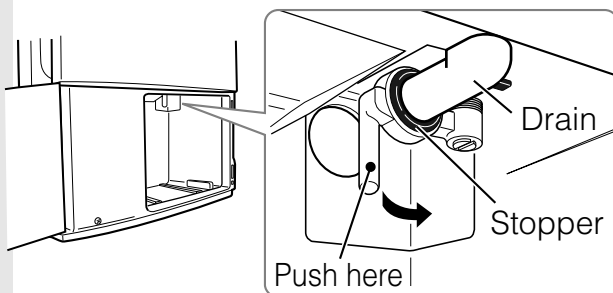
Grasp handle and pull out.

### 2 Open the drainage outlet.



Use cutters to cut the three fixing ribs of the continuous drainage port on the back of the main unit, then remove it carefully making sure that it does not fall inside the unit.

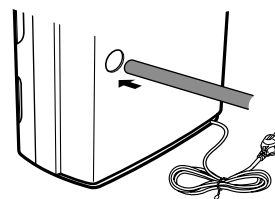
### 3 Press drain stopper.



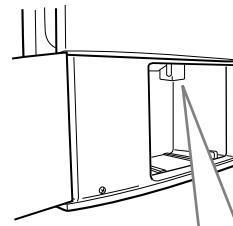
**Note**

- Leave a minimum space of 20 cm behind the unit for attaching the hose.
- Confirm that the hose does not show signs of deterioration such as cracks and clogging.
- Inspect the hose every 2 weeks. Insects or dirt blocking the hose may cause leakage resulting in malfunctions.

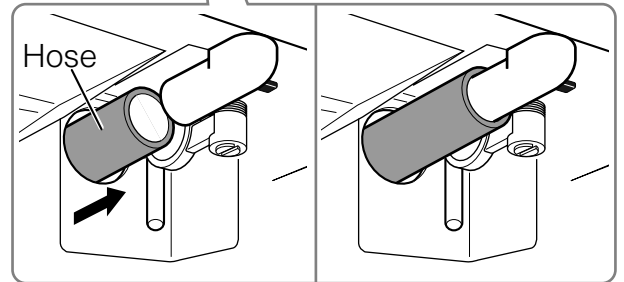
### 4 Insert the hose into the drainage outlet on the back



Feed the commercially available hose (ID 15 mm) into the drainage outlet while keeping the stopper pressed.



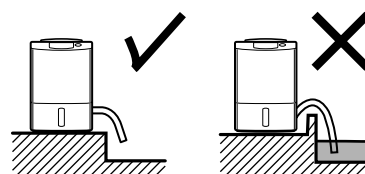
Confirm that the hose is securely attached and does not leak.



### 5 Replace the tank.

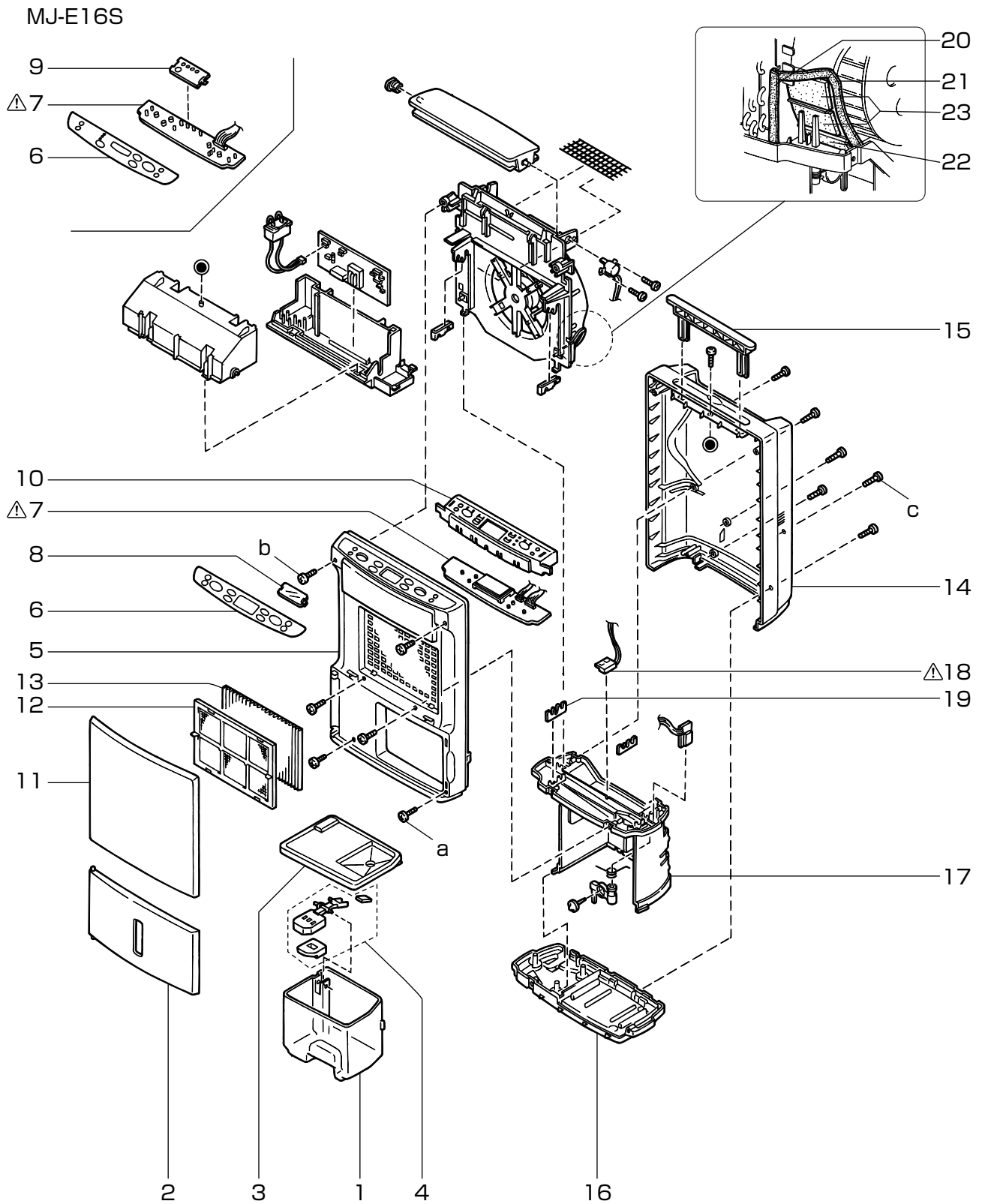
The unit cannot operate without returning the tank.

#### How to set up the drainage hose



- hose immersed in water
- hose raised to a level higher than the drainage outlet

## Model MJ-E16S/SX-S1 Exploded View <Casing and Structure>



## Parts Catalog

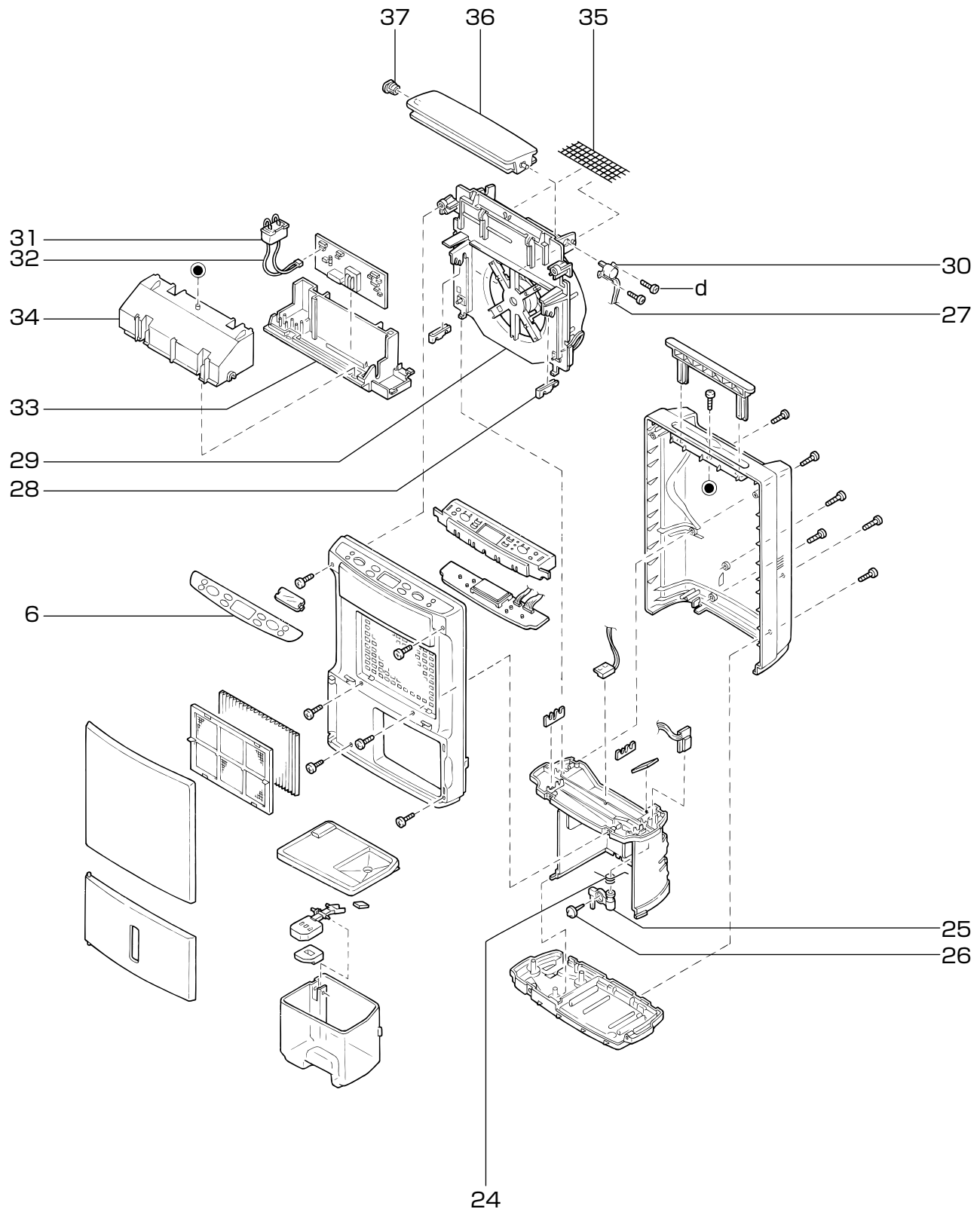
## Model MJ-E16S/SX-S1 Parts List

Notes:

1. New parts and the parts that are used only with these models lack compatibility.
2. Those parts that are marked by  and  are of critical importance for sustaining safety and performance. Use specified parts at replacement.

[illegible]

Model MJ-E16S/SX-S1 Exploded View  
<Casing and Structure>



## Parts Catalog

## Model MJ-E16S/SX-S1 Parts List <Casing and Structure>

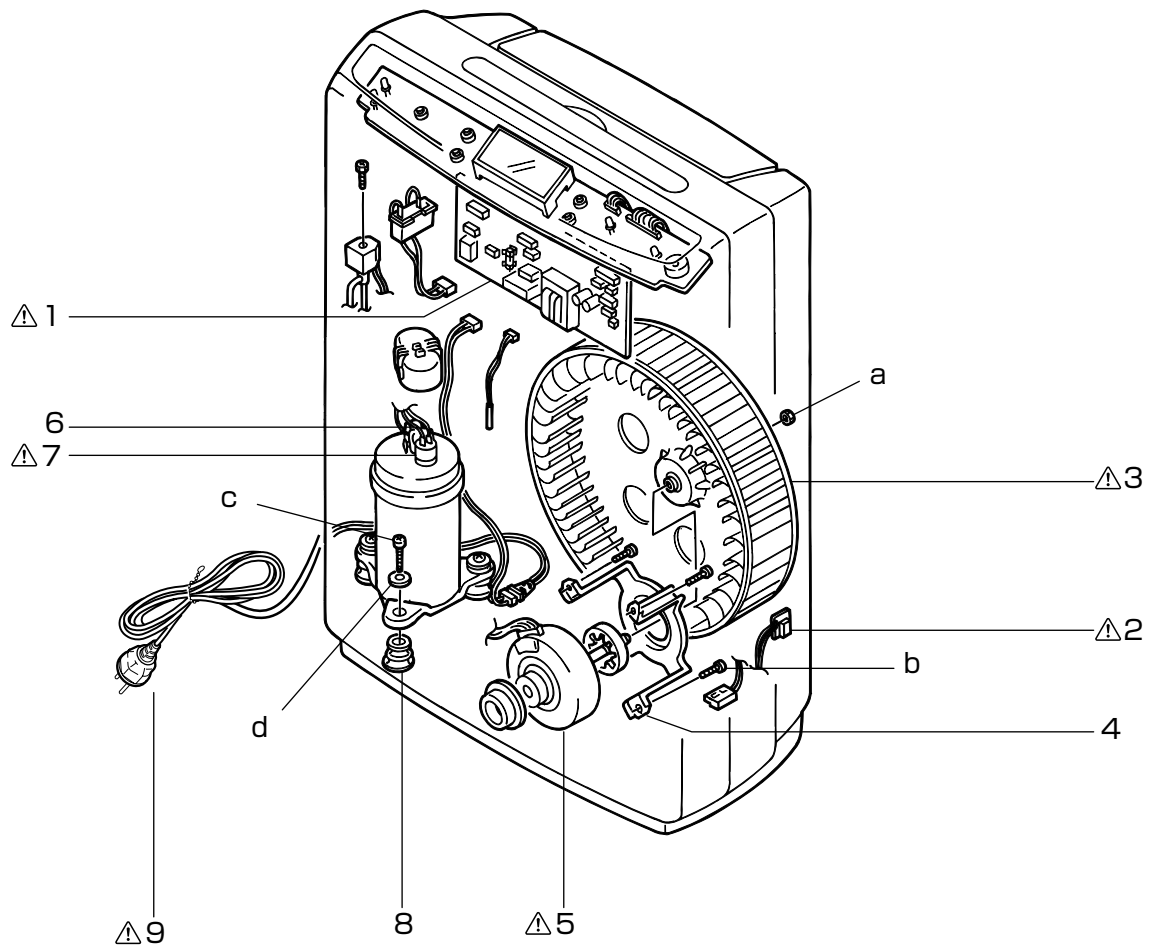
Notes:

1. New parts and the parts that are used only with these models lack compatibility.
2. Those parts that are marked by  and  are of critical importance for sustaining safety and performance. Use specified replacement.

[illegible]



Model MJ-E16S/SX-S1 Exploded View  
<Electrical Parts>



## Parts Catalog

## Model MJ-E16S/SX-S1 Parts List

### <Electrical Parts>

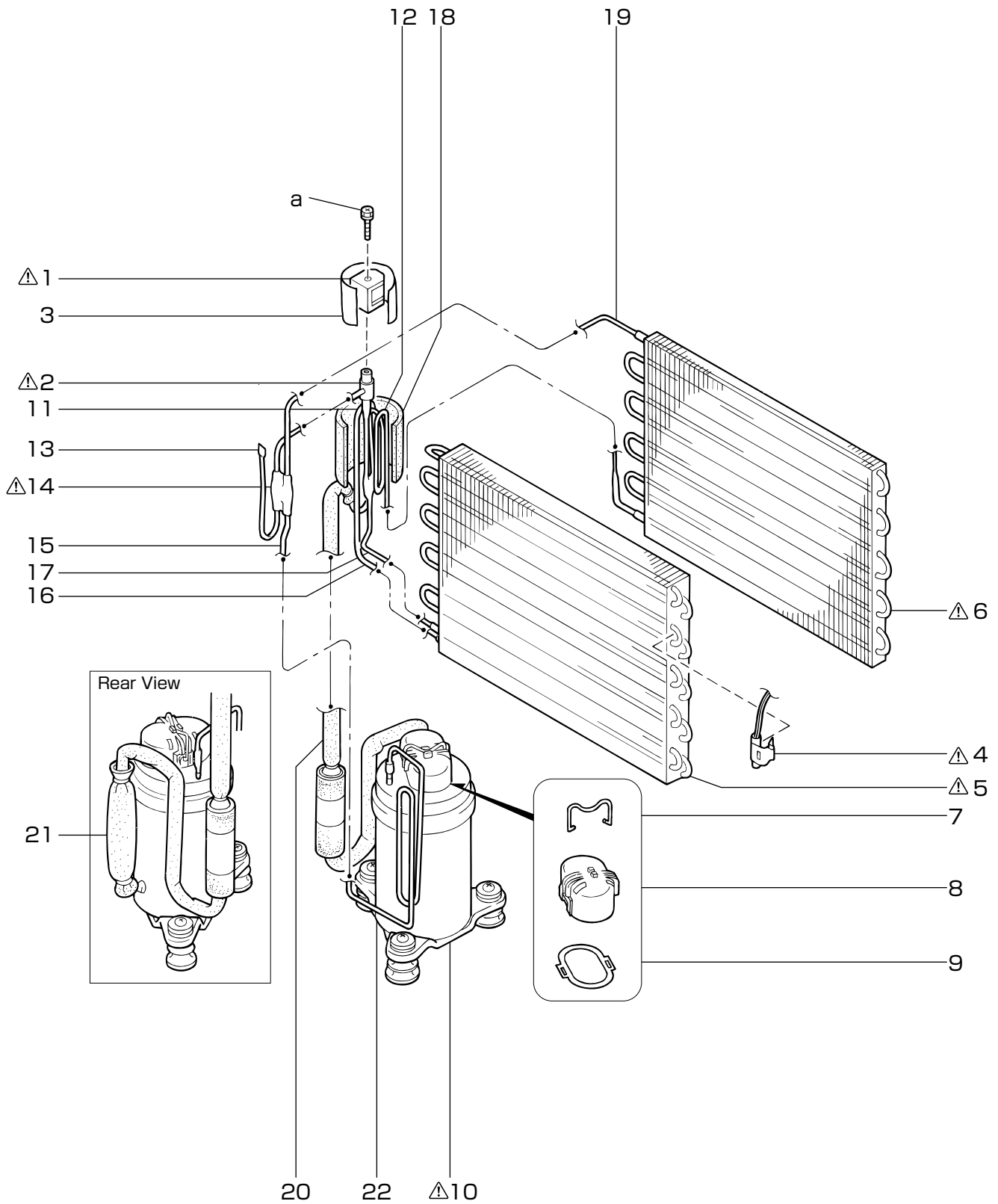
Notes:

1. New parts and the parts that are used only with these models lack compatibility.
2. Those parts that are marked by  and  are of critical importance for sustaining safety and performance. Use specified replacement.

[illegible]

## Parts Catalog

### Model MJ-E16S/SX-S1 Exploded View <Compressor Parts>



## Parts Catalog

## Model MJ-E16S/SX-S1 Parts List

### <Compressor Parts>

Notes:

1. New parts and the parts that are used only with these models lack compatibility.  
2. Those parts that are marked by  and  are of critical importance for sustaining safety and performance. Use specified replacement.

[illegible]

## 9. Troubleshooting

### The unit does not operate.

- Power plug is unplugged.
- The Tank full light is lit.
- The water tank is not installed properly.
- The unit is in the EASY HUMIDIFYING or HUMIDITY SET modes.
- The unit is defrosting. (The unit will restart when the defrosting session completes.)

### Dehumidifying does not function.

- Air filter is clogged.
- Air outlet and/or intake are blocked.

### Water does not accumulate in the water tank.

- The humidity level and/or temperature are low.

### No airflow.

- Air filter is clogged.
- The self-defrosting function is in operation.

### Operation is noisy.

- The unit is badly installed (it is tilted, unsteady).
- Air filter is clogged.

### The operation noise suddenly increases during use.

- The compressor generates a large sound upon operation (3 minutes after turning the power on or while the unit is operating in EASY DEHUMIDIFYING or AUTO modes).

### The air is smelly at the beginning of operation.

- This may happen for a while when temperature of the heat exchanger rapidly increases.

### Airflow is warm.

- Before dehumidifying, the air is first cooled, then re-heated, therefore the discharged air is warm. (The unit is not an air-conditioner.)

### The room humidity does not reach the set level.

- The room is too big.
- Windows and doors are opened too frequently.
- A gas heater which produces moisture is being used.

### The level of dehumidification is low or the unit is not dehumidifying.

- The room temperature and humidity levels are low. (In winter or in dry conditions, the level of dehumidification will be low or insignificant.)

### No dehumidifying. No airflow. The louvres do not move (when swing is ON).

- Check to see if the unit is in EASY DEHUMIDIFYING or AUTO modes.
- Operation stops when the room humidity drops below the set level.

### The louvre is not moving as set.

- Press the swing louvre button again.

### The air-flow volume changes.

- The volume changes depending on the louvre angle.

|                                                                                                                    |                                                                                                                                                                                                                                                                                                                                |
|--------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Operation noise reverberates.</b>                                                                               |                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                    | <ul style="list-style-type: none"> <li>• Sometimes occurs when using the unit in a room with flooring or in a narrow room.</li> </ul>                                                                                                                                                                                          |
| <b>Rumbling or other strange sounds are made by the unit when starting, stopping operation, or changing modes.</b> |                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                    | <ul style="list-style-type: none"> <li>• The refrigerant may be producing strange noises before its circulation stabilizes.</li> </ul>                                                                                                                                                                                         |
| <b>A “buzz” can be heard sometimes. Compressor does not work.</b>                                                  |                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                    | <ul style="list-style-type: none"> <li>• To protect the compressor, it will not operate for 3 minutes when the unit is turned on immediately after being turned off or plugged in.</li> <li>• When the room humidity level is lower than the set level in EASY DEHUMIDIFYING mode, the compressor does not operate.</li> </ul> |
| <b>Fluid or white deposit left after evaporation can be found in the water tank.</b>                               |                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                    | <ul style="list-style-type: none"> <li>• This is the remainder of water which accumulated in the tank during the unit test run at the factory, and is not a malfunction.</li> </ul>                                                                                                                                            |
| <b>Black burn mark on the tank lid or inside the water tank.</b>                                                   |                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                    | <ul style="list-style-type: none"> <li>• The mark is by the dust in the air. Clean according to the instructions set in the “maintenance” of page 20 in the instruction manual.</li> </ul>                                                                                                                                     |
| <b>The humidity level indicated by the dehumidifier is different from that indicated by another hygrometer.</b>    |                                                                                                                                                                                                                                                                                                                                |
|                                                                                                                    | <ul style="list-style-type: none"> <li>• The humidity can vary between different places in the same room. Please use the humidity display as a rough guide.</li> </ul>                                                                                                                                                         |

|                                                                                                |                                                                                                                                                      |
|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b><i>E2</i> is displayed. (Letters are displayed alternately) <span>E16SX</span></b>          |                                                                                                                                                      |
|                                                                                                | <ul style="list-style-type: none"> <li>• Power plug is not firmly inserted in the socket.</li> </ul>                                                 |
| <b><i>P4</i> is displayed. (Letters are displayed alternately) <span>E16SX</span></b>          |                                                                                                                                                      |
|                                                                                                | <ul style="list-style-type: none"> <li>• Air outlet is blocked.</li> <li>• Air filter is clogged.</li> </ul>                                         |
| <b><i>EO~EB RI RG</i> is displayed. (Letters are displayed alternately) <span>E16SX</span></b> |                                                                                                                                                      |
|                                                                                                | <ul style="list-style-type: none"> <li>• Malfunction.</li> </ul>                                                                                     |
| <b>All operation lamps lit (Low, Laundry, Low Temp, Air purifier) <span>E16S</span></b>        |                                                                                                                                                      |
|                                                                                                | <ul style="list-style-type: none"> <li>• Check to see if the power plug is correctly inserted into the wall socket.</li> </ul>                       |
| <b>All timer lamps lit <span>E16S</span></b>                                                   |                                                                                                                                                      |
|                                                                                                | <ul style="list-style-type: none"> <li>• Check to see if the air outlet is blocked.</li> <li>• Check to see if the air filter is clogged.</li> </ul> |

# Precautions

The following diagrams indicate circumstances where danger can result from mishandling the unit.



**WARNING**

Mishandling may result in injuries or damage to your home or property, etc.



**CAUTION**

Mishandling may result in injuries or damage to your home or property, etc.



Forbidden



Do not disassemble



Always follow the instructions

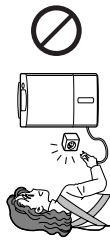


Do not subject to water

Meanings of the graphic symbols used in this manual and on the unit are explained below.

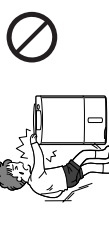
## WARNING

**Do not start/stop the unit by plugging/unplugging the power cord.**



This may result in **fire and/or electric shock**.

**Do not put your fingers or any long object, into the air intake/outlet. Do not touch the swing louvre.**



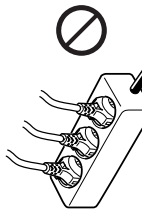
The internal fan rotates at high speeds, and such actions may result in **injury or malfunctions**.

**Wipe dust off the power plug and insert the plug firmly.**



If the plug is not fully inserted into the socket, dust may gather on the connectors which may cause **fire and/or electric shock**.

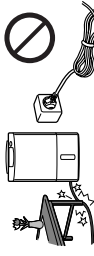
**Do not use extension cords or multiple head adapters.**



This may result in **fire, electric shock or malfunctions**.

**Do not damage or modify the power cord or plug.**

Do not modify, bundle, twist, bend or heat the power cord. Do not place under objects or use with the end close to the plug bent.



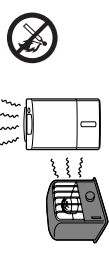
The cord may be damaged resulting in **fire or electric shock**. (Keep pets from biting the cord.)

**Do not attempt to repair, disassemble, or modify the unit.**



This may result in **fire and/or electric shock**. Refer servicing to your dealer or Mitsubishi Electric Service Centre.

**Do not put the unit near heat-generating devices (such as stoves, fan heaters, etc.).**



The plastic parts may melt causing **fire**.

**Should abnormal symptoms occur (a burning smell, etc.), switch off the unit and unplug it from the socket.**



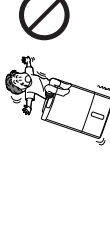
Continuing to operate the unit may result in **fire, electric shock, or malfunctions**. Contact your dealer or Mitsubishi Electric Service Centre for consultation.

**Use 220-240V AC power sockets that can withstand more than 15A current.** Connecting to power sockets other than 220-240V AC may result in **fire and/or electric shock**.

**Remove water that has collected in the tank.** Accidentally drinking the water or using it for other purposes may cause **illness and/or unforeseen accidents**.

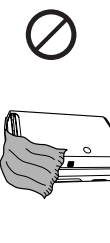
## CAUTION

**Do not stand on, sit on or lean against the unit.**



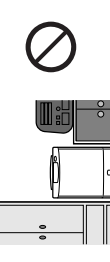
The unit may tip over causing **injury**.

**Do not cover the side air intakes or the air outlet with cloth, curtain, etc.**



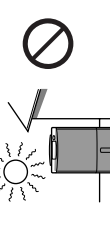
This results in poor ventilation and may cause **heat generation/fire**.

**Do not use the unit in narrow, enclosed places such as inside closets, between pieces of furniture, etc.**



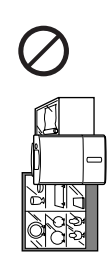
This results in poor ventilation and may cause **heat generation and/or fire**.

**Do not use the unit where it may be exposed to direct sunlight or other weather conditions. (This unit is for indoor use only.)**



This may cause **overheating, electric shock and/or fire** caused by an electric leak.

**Do not use the unit for special purposes, such as preservation of food, art or scientific works.**



This may negatively affect the **quality of the items stored**.

**Do not use the unit in places where chemicals are used (such as hospitals, factories, laboratories or beauty salons).**



Chemicals and solvents evaporated in the air may harm the unit and cause water in the tank to leak, resulting in **damage to property**.

**Do not remove the Styrofoam from the floating element.**



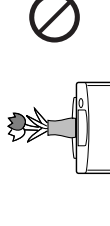
The floating element will not be able to detect a full tank resulting in water leakage, which may **damage surrounding objects or cause electric shock and/or an electric leak**.

**Do not use the unit in places that may be subject to oil or flammable gas leakage.**



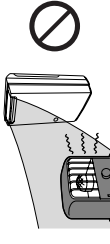
Such a leak around the unit may cause **combustion and fire**.

**Do not put vases or any other objects filled with water on the unit.**



Water may leak into the unit adversely affecting electric insulation and cause **electric shock and/or fire by short-circuiting**.

**Do not use combustion appliances in the path of the air outlet.**



This may cause **incomplete combustion** in the appliance.

**Do not drain water continuously if there is a possibility that temperature around the hose could drop to freezing point.**



Water inside the hose may freeze and prevent the water in the tank from flowing out. The water may leak from the unit and **damage surrounding objects**.

**Do not wash the unit with water. Do not use the unit where it is likely to come in contact with water.**



Exposure to water may result in **fire or electric shock caused by an electric leak**.

## Precautions

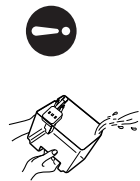
### CAUTION

Do not point air-flow from the unit directly at the body .



If air-flow is directed at the body for long periods, it may **harm one's physical condition** and **lead to dehydration**.

Before moving the unit always switch it off, unplug it and remove water from the water tank.



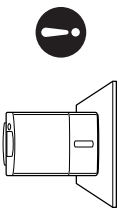
Moving the unit with water in its tank may cause the water to leak and damage the surrounding objects and in turn result in **electric shock and/or an electric leak**.

When draining water continuously or left unattended for long periods, inspect the unit every two weeks.

Do not allow debris to clog the filter/hose as this may cause over-heating/leakage.

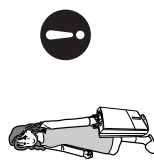
Use the unit with caution in rooms where the walls, furniture and art work is vulnerable to dry air, as it may cause cracks and warping.

Install the unit in a location where the floor is flat and stable.



If the unit falls over, the water collected in the water tank may leak damaging surrounding objects and in turn result in **fire or electric shock caused by an electrical leak**.

After emptying the tank, transport the unit by grasping the handle firmly.



Losing your footing while carrying the unit may cause personal injury or damage to the floor.

Switch the unit off and unplug from the power source when cleaning it.



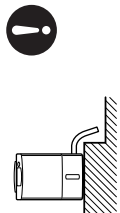
When the unit is on, the internal fan rotates at high speeds and may **cause injury**.

Grasp the plug and remove from the power socket.



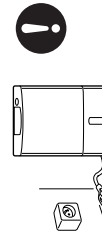
When removing the plug from the power socket, do not pull on it diagonally or by the cord as this may cause the projections/wiring to be damaged resulting in a **short circuit, electric shock or fire**.

When using the continuous drainage outlet, make sure to position the hose so that the water drains without obstruction.



The water in the tank may leak and damage surrounding objects.

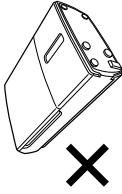
Unplug the unit from the power source when not using the unit for an extended period of time.



Otherwise it may cause **fire and/or electric shock caused by an electric leak**.

## Warning

- **Keep the unit always in an upright position.** Inclining the unit may cause water in the tank to leak into the unit, **resulting in malfunction**. Should you incline the unit accidentally, contact the place of purchase for advice.
- **Do not carry the unit horizontally.** This may result in malfunctions.



- The appliance is not intended for use by young children or infirm persons without supervision;
- Young children should be supervised to ensure that they do not play with appliance.





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