ADVANCED AND EVER ADVANCING MITSUBISHI ELECTRIC

MITSUBISHI

DEHUMIDIFIER

2001

No.MJW-01030

SERVICE MANUAL

Model **MJ-E16P-S1**
MJ-E16PX-S1
MJ-E16P-E1
MJ-E16PX-E1

Sold from 2001

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<tr><td>Winding resistance(Ω)</td><td colspan="10">Primary: 26.1 , subsidiary: 70.7</td></tr>
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Type
Output (W)
Flow rate selection
Speed (rpm)
Flow rate (m^3/min)</td><td rowspan="2">AUTO</td><td>640 ~ 680</td><td rowspan="2">HIGH</td><td>740</td><td rowspan="2">LOW</td><td>600 or 640</td><td rowspan="2">LOW TEMP</td><td>740*
[775]</td><td rowspan="2">AIR PURIFIER</td><td>680</td></tr>
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LOW TEMP,AUR PURIFIER</td><td colspan="5">AUTO,HIGH,LOW,
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<tr><td colspan="2">Indicating lamps
(some using an LCD)</td><td colspan="5">AUTO,HIGH(LANDRY),LOW,
LOW TEMP,AUR PURIFIER,
TANK FULL,DEFROST,
OFF TIMER(2/4/8),COLD</td><td colspan="5">AUTO,HIGH,LOW,
LOW TEMP,AUR PURIFIER,
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COLD,HIGH HUMIDITY,
CHILD LOCK,
SWING DIRECTION(UPWARD,
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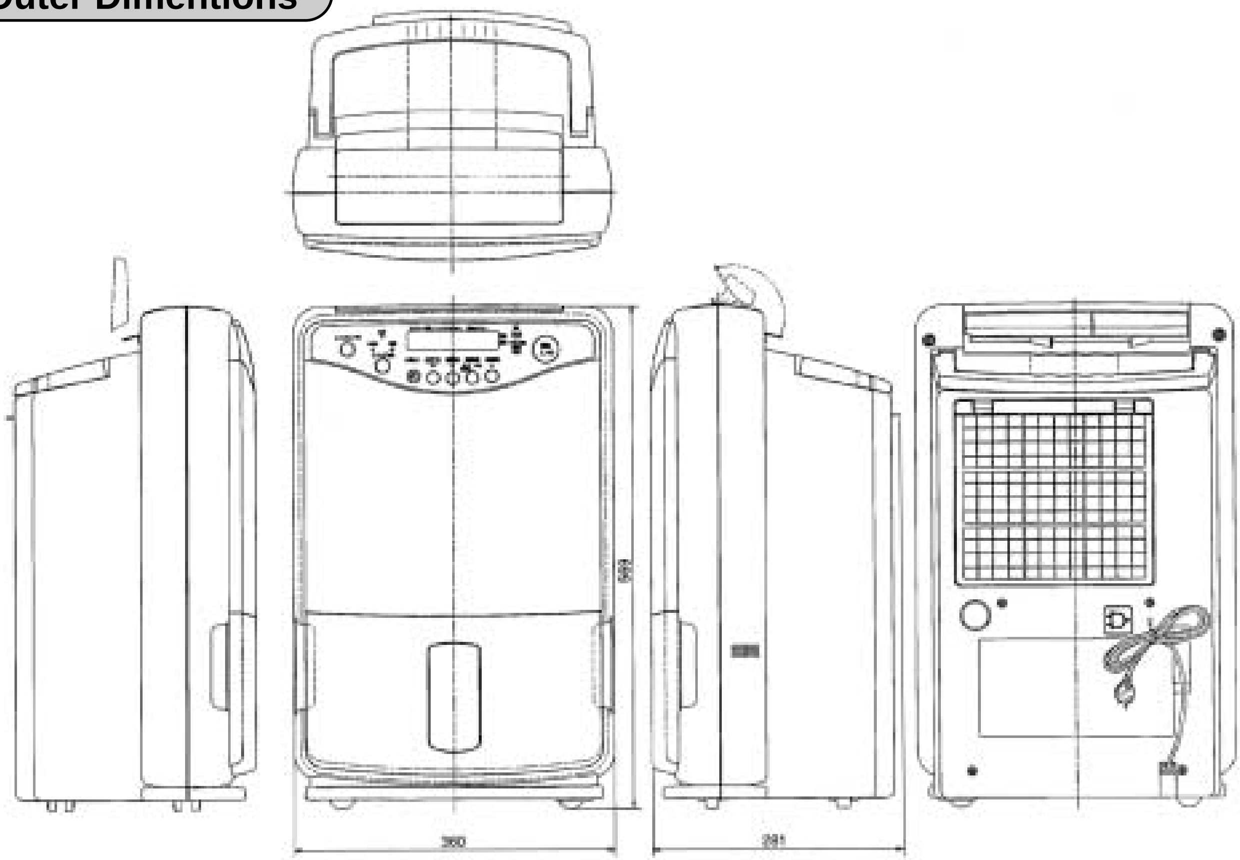
<tr><td colspan="2">Air cleaning performance</td><td colspan="10">yes</td></tr>
<tr><td colspan="3">Receptacle type and rating</td><td colspan="10">5A</td></tr>
</table>

● 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 Dimentions

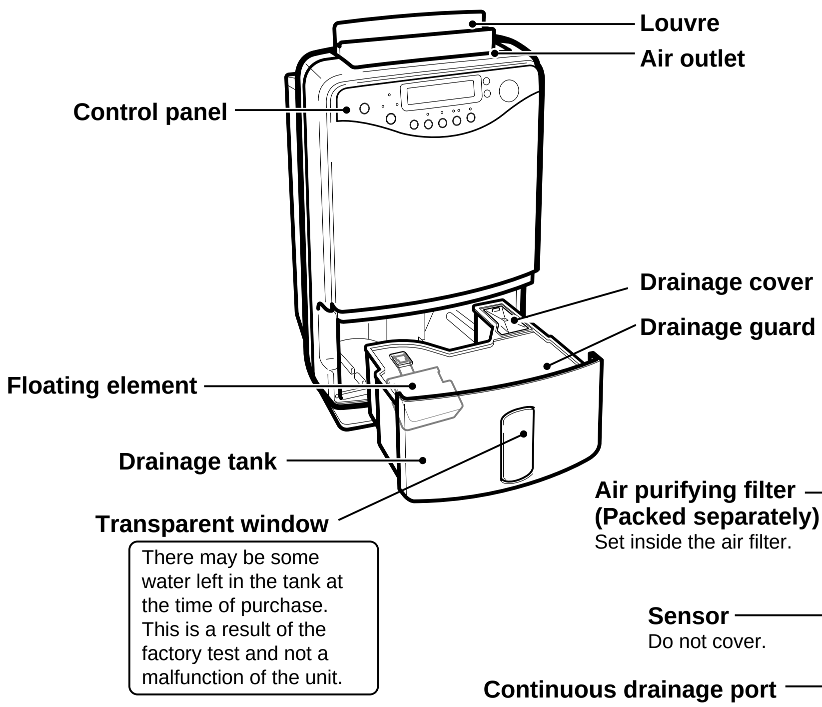
<Illustration shows MJ-E16PX-S1>



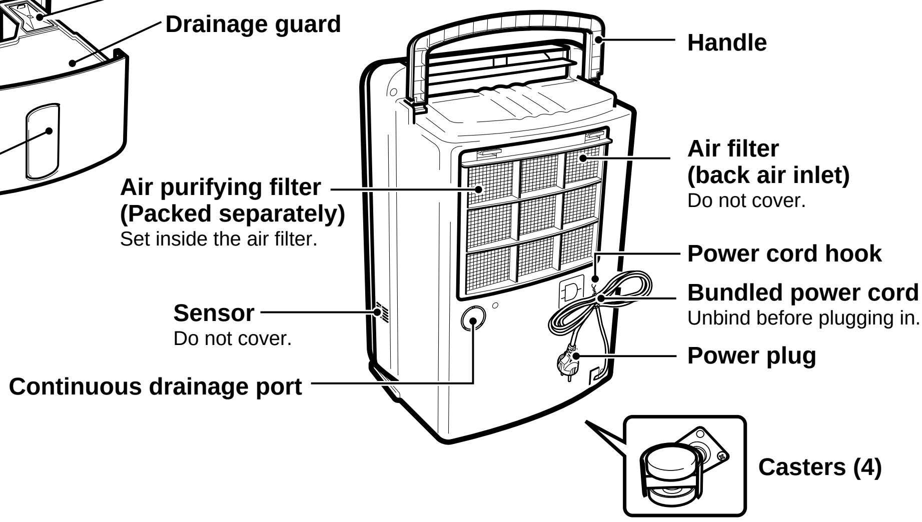
3. Outer View, Parts and Display Section

<Illustration shows MJ-E16PX-S1>

Front



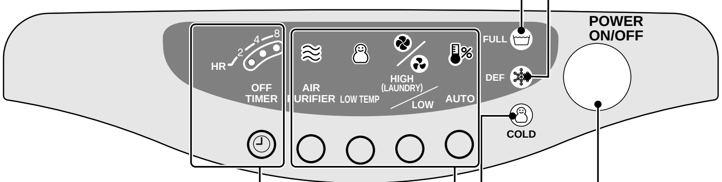
Back



[MJ-E16P-S1, E1]

Tank full lamp (red)
Lights up when the drainage tank is full up with water.

Defrosting indication (red)
Indicates that defrosting is in process.



Off Timer Operation

Timer lamps (orange)
Indicate the Off Timer time.
Off timer button
Setting the time for the Off timer.

Switching between operation modes

Operation lamp (green)
Selected operation mode is lit up.
Operation switch
Use to switch between operation modes.

Operate

Power button
Turning the unit on/off.

Cold lamp (green)
Light up when the room temperature drops below about 15°C.

AUTO

If you want to maintain a stable level of humidity in your room

Depending on current level of humidity, the unit automatically adjusts its dehumidification function and the air flow in order to maintain a constant level of humidity in your room at approx. 55%.

- If the humidity level falls below 55%, the unit automatically stops to operate, and resumes operation if the humidity level increases.
- After having started operation, the unit runs for 15 minutes regardless the level of humidity in the room.

HIGH (LAUNDRY) / LOW

To dry your clothes, etc.

The unit operates continuously. You can switch between the HIGH (LAUNDRY) or LOW modes.

HIGH (LAUNDRY)......Use for drying clothes, etc.

LOW......When you want quieter the operation noise

- Each time you press the button, the mode changes between HIGH (LAUNDRY) and LOW.

LOW TEMP

When temperature in the room is low

Depending on temperature in the room, the unit may automatically change air flow and enter the continuous operation mode. If temperature falls below approx. 15°C, the air flow increases.

AIR PURIFIER

When the air contains pollen or is dusty

The air flow is on. The air flows through the filter, where it is being cleaned. Dehumidification is off.

- The unit continuously purifies the air.

[Using the Off Timer]

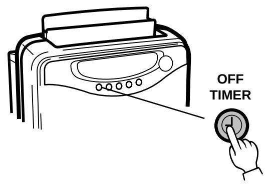
The off timer can be set for each 2, 4, 8 hours.
Make sure to set the time when the unit is operating.

1 **Make sure that the unit is operating.**

2 **Open the louvre.**

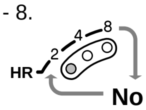
3 **Set the desired operation mode.**

4 **Set the Timer button.**



Press

- Press once to display “2”.
- Each time you press the button, the lamps change in the following order: 2 - 4 - 8.



No display (Continuous Operation)

› The Off Timer setting is completed

- The remaining time to switch off the unit decreases by 1 every hour.
- When the set time comes, the unit turns off with the lamp lighting on for 2 hours.
  Press POWER ON/OFF switch to finish the operation.

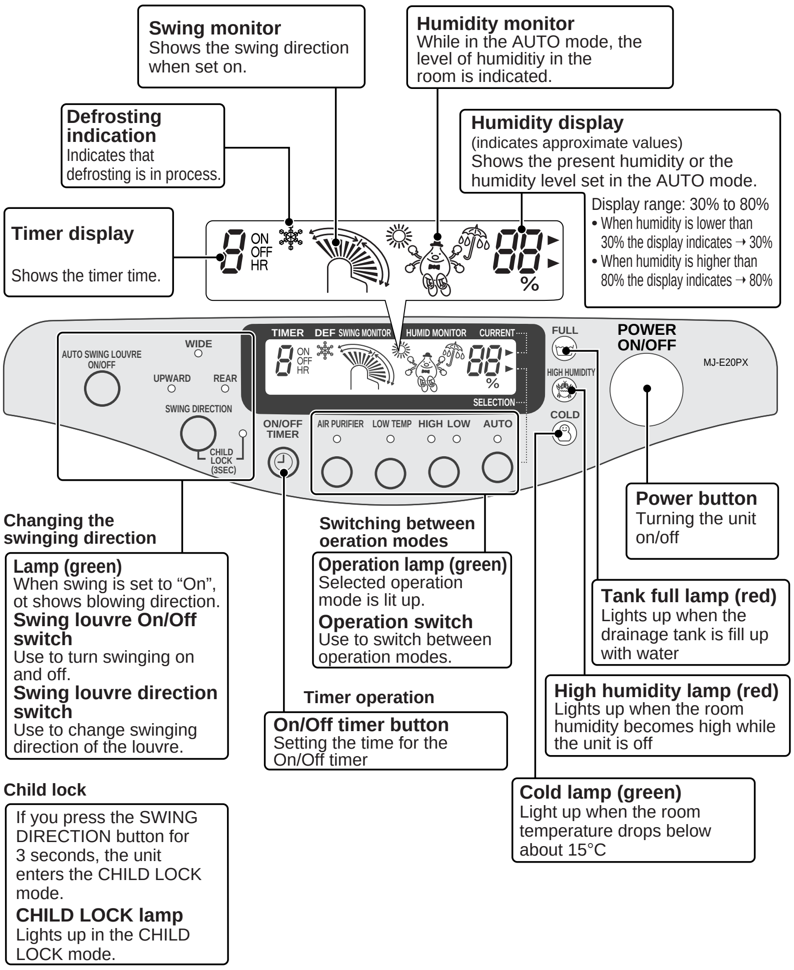
To cancel the Off Timer

Press the Timer button until the remaining time disappears. (The unit goes back to continuous operation.)

Press

- The Off Timer is canceled.

[MJ-E16PX-S1, E1] For explanatory purposes, all indications on the liquid crystal display are shown simultaneously.



When a mode is selected its lamp will illuminate.

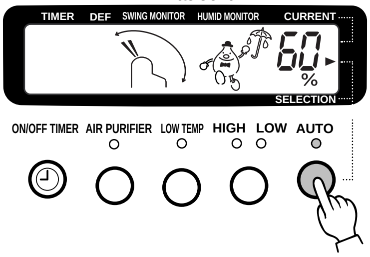
The unit automatically enters AUTO 60% after connecting the power plug to a power point.

In order to maintain a comfortable level of humidity

Automatic dehumidification

The unit operates automatically in order to maintain the set level of humidity. The condition of the air in the room is displayed on the humidity monitor.

Indication example: Automatic dehumidification at 60%

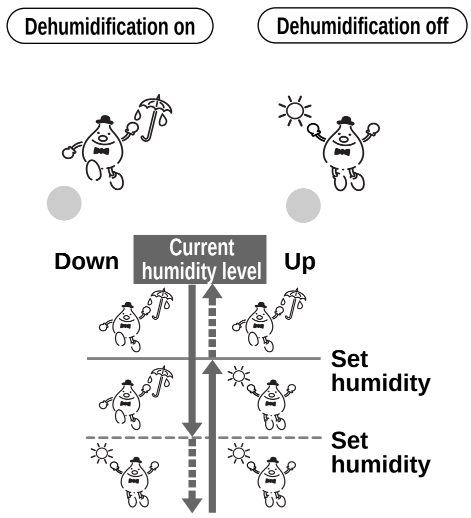


- Each time you press the button, the set humidity level change in the following order:

70 → 65 → 60 → 55 → 50 → 45 → 40

- To confirm the set level of humidity, press the AUTO button.
- After having started operation, the unit runs for 15 minutes regardless the level of humidity in the room.

How to read the humidity monitor



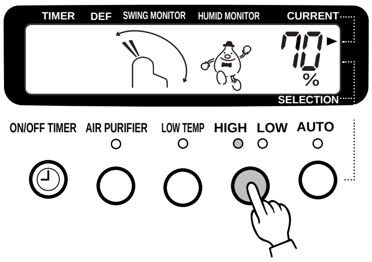
- When humidity falls below the set humidity level by more than 5%, the unit turns off.
- When humidity becomes higher than the set humidity level, the unit turns on.

To dry your clothes, etc.

Continuous dehumidifying

The unit operates continuously. You can switch between the HIGH or LOW modes.

Indication example



- Each time you press the button, the mode changes between HIGH and LOW.

HIGH → LOW

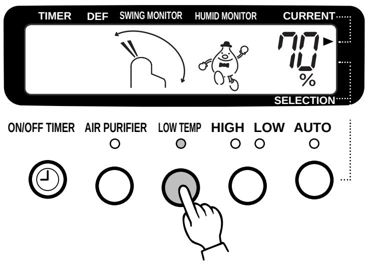
HIGH... Use for drying clothes, etc.
To enhance the process, turn on the louver.
LOW... When you want quieter the operation noise.

When temperature in the room is low

LOW TEMP

Depending on temperature in the room, the unit may automatically enter the continuous operation mode. If temperature falls below approx. 15°C, the air flow noise increases.

Indication example

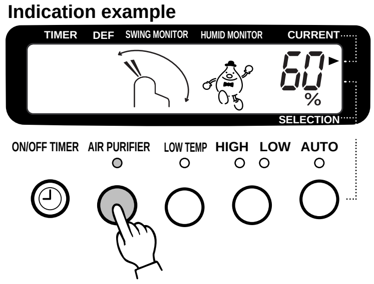


When the air contains pollenoris dusty

AIR PURIFIER

The air flow is on. The air flows through the filter, where it is being cleaned. Dehumidification is off.

Indication example



- The unit continuously purifies the air.

How to read the Swing Monitor

The monitor shows the range of movement of the louver. (Note that the movement of the monitor display does not necessarily reflect the movement of the louvre.)

● **WIDE** When you want to dehumidify the whole room

● **REAR** When you want to dehumidify your closet, etc.

● **UPWARD** When you want to dry your clothes, etc.

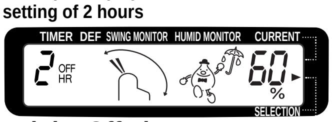
<<Off Timer Operating Procedure>>

1) Make sure that the unit is ON.
2) Press the ON/OFF TIMER button to set a time interval.
   - Press once to display " 1 ," followed by "hours later, OFF." Each time you press the button, the display increments by 1 hour, from 1 to 9 hours in sequence. (Continue pressing to let the display update automatically.)

No display (Continuous operation) → 1 → 2 ····→ 8 → 9

’The Off Timer setting is completed.

Auto-dehumidification (60%)
A sample display of the Off Timer setting of 2 hours



To Cancel the Off Timer

Press the ON/OFF TIMER button until the remaining time disappears. (The unit goes back to continuous operation.)

<<On Timer Operating Procedure>>

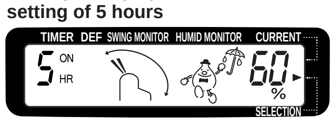
1) Make sure that the unit is OFF.
2) Press the ON/OFF TIMER button to set a time interval.
   - Press once to display " 1 ," followed by "hours later, ON." Each time you press the button, the display increments by 1 hour, from 1 to 9 hours in sequence. (Continue pressing to let the display update automatically.)

No display (Operation OFF) → 1 → 2 ····→ 8 → 9

3) Press the operation switch to accept the setting.
   - The blinking time display and operation lamp stay continuously lit.

’The On Timer setting is completed.

Auto-dehumidification (60%)
A sample display of the On Timer setting of 5 hours



To Cancel the On Timer

Press the operation switch.

4. Technical Points

4.1 New Product Features

1) The 135° wide-angle louver provides optimal dehumidification to suit varied faucets of your living (E16PX-S1 only). The air outlet louver automatically swings to 135° to deliver air onto the floor surface as well. Moreover, it works in three ways, rear, upward, and wide, to optimize dehumidification to specific needs.
   1 **Rear swing:** Effectively dehumidifies spaces in closets, shoe cupboards, kitchens and the like.
   2 **UPWARD swing:** Effectively dries laundry. The swinging air outlet provides uniform drying while speeding up drying time.
   3 **Wide swing:** 135° wide-angle swinging dehumidifies broad spaces from the room floor to the ceiling at once.

4.2 Operation and Performance

Working temperature

- Dehumidification should be carried out in temperature ranging from 1°C to 40°C. Using the unit in temperature outside the range will overload the unit resulting in improper operation.

  Approx. 1°C or low › Only the air flow mode is operational.

  Over approx. 35°C 1. Product Specifications Air flow becomes constant. The air flow may sometimes stop for a while.

  Temperature in room where the dehumidification process is to be carried out with the louvre closed can be in the range of approx. 1°C to 35°C.

Wait for 3 minutes before dehumidifying

In order to protect the compressor, dehumidifying does not occur for about 3 minutes after turning unit on. When dehumidifying begins the operational noise increases.

Defrosting

The unit may display ❄ during operation and stop air flow, followed by a change in the operating noise. The unit is automatically defrosting the inside at this time. Wait for a while in this condition. The unit will resume automatically when the defrost operation completes.

[When the room temperature falls to about 15°C or lower, the unit starts defrosting for about 5 minutes once every 40 minutes or more to suit the room temperature.]

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**.

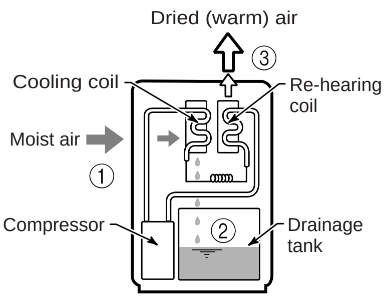
Current Level of Humidity

The humidity display of this unit shows a relative humidity level same as regular hygrometers. Even if the amount of water vapor present in the air remains the same, the value of the humidity level changes if humidity changes. Similarly, even in the same room, if the unit is set in a place where the air flow is not sufficient, the humidity may differ.
Therefore, depending on a difference in humidity or air flow, the humidity level displayed on this unit may differ from that shown by other hygrometers.

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.

How your dehumidifier works

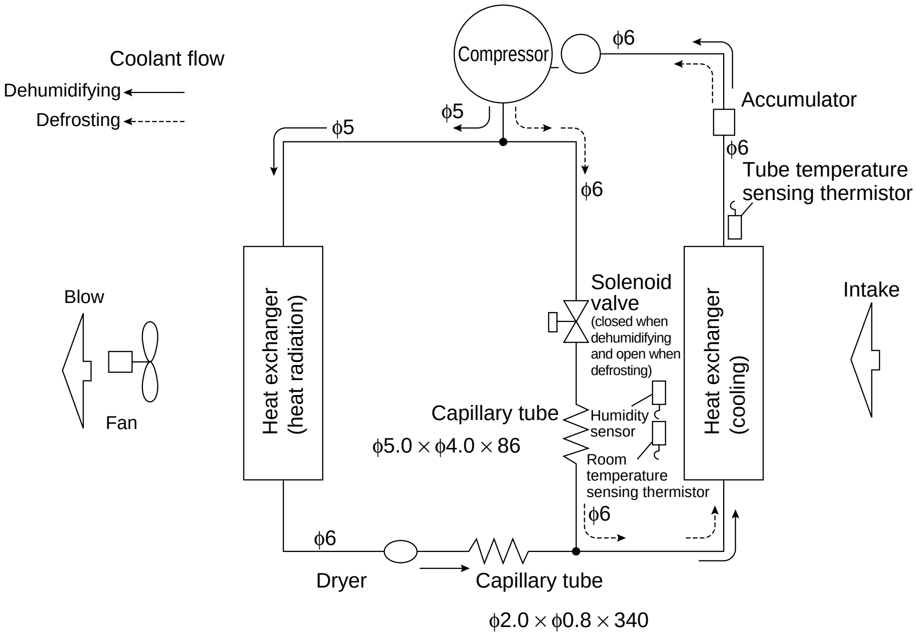
If you pour cold water into a cup, the air around gets cold causing water drops to form on the surface of the cup. The dehumidifier takes advantage of this phenomenon to remove moisture.



1 The unit sucks in the room air, cools the air down with its cooling coil, then transforms moisture into water drops.
2 The water drops fall into the drainage tank.
3 The dehumidified air is re-heated by the heating coil, and then discharged.

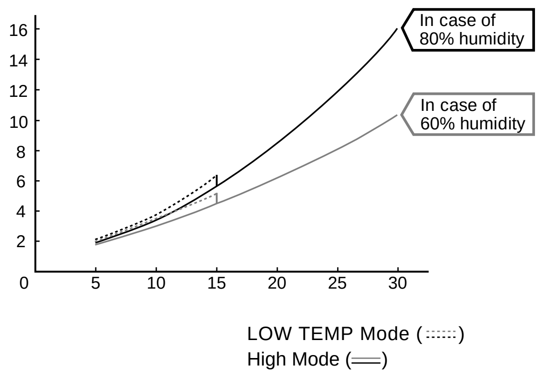
Your room's humidity is thus removed by repetition of steps 1, 2, and 3.

4.3 Coolant Circuit



Relationship between dehumidification and room temperature/humidity

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



Values for HIGH dehumidifying operation.

The dehumidification quantity values shown on the graph were measured at constant temperature and humidity, and do not reflect the actual usage conditions.

In low temperature, drying process takes approximately twice as much as in normal temperature. (Note: It depends on the condition of the laundry and the room.) It is recommended that you use the LOW TEMP operation mode while in low temperature.

5. Daily Care and Services

Maintenance

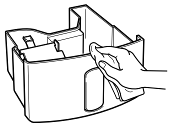
Do not use gasoline, benzene, thinner, polishing powders, chemically treated dustcloths, detergents, or other solvents, as they can damage the unit and the drainage tank, and may result in water leakage.

Cleaning

Drainage tank

Wipe it with a soft cloth

When the unit operate, it sucks various dust particles that are present in the air. This may cause the tank to become gradually dirty. If the dirt does not easily come off, wash the tank with cold or warm water, then wipe it with a dry soft cloth.



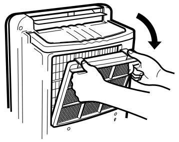
Main unit

Wipe the casing with a soft cloth.

Fortnightly Checks

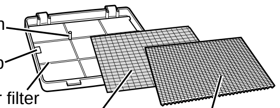
Airfilter

1 Remove the air filter.



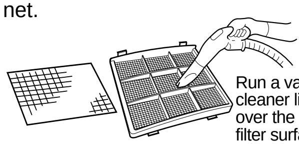
Even if the metal fin inside the main unit is slightly bent, it does not affect its performance.

2 Remove the filter net and the air purifying filter.



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

3 Clean the air filter and the filter net.

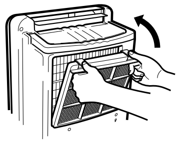


If the air filter is very dirty, wash it with a lukewarm mild detergent solution, then dry it thoroughly.

4 Put the filter net and the air purifying filter back in the air filter.

- Snap the filter net onto the air filter pins.
- Hold the filter net with its surface up, then put it into the air filter.

5 Attach the air filter.

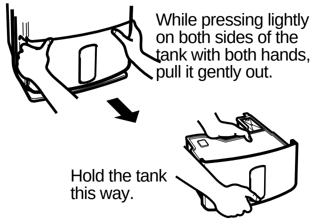


Insert the lower tabs into the main unit, then press the air filter until the tabs click into place.

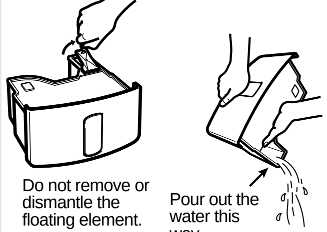
Removing Water from the Tank

When the drainage tank becomes full (about 5.0 litres), the unit automatically stops, and the Tank Full lamp lights up. Remove water from the tank.

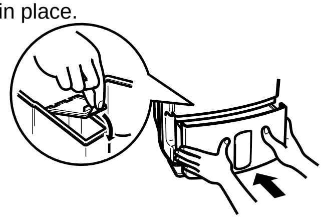
1 Remove the drainage tank.



2 Remove the drainage cover, then remove the water.



3 Reattach the drainage cover, then put back the drainage tank in place.



Firmly push the tank into place with both hands. If the tank is set incorrectly, the tank full sensor is activated and the unit cannot be switched on.

Replacing the Air Purifying Filter

Replacing the Filter

When to replace

Replace the filter when it becomes dirty (brownish) with cigarette smoke, dust, etc.
Generally one filter should last for approx. 6 months. (It depends of the usage condition.)

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

The filter net is not disposable.
The filter net can be reused. It prevents dust particles, etc. from entering the inside of the unit. Never operate the unit without the filter net.

Replacing the air purifying filter

Remove the air filter, remove the air purifying filter, then reattach the air filter. Refer to section “Maintenance”.

Parts sold separately

Air purifying filter for replacement

- **Type: MJPR-PXFT**
- **Type code: 5C5 811**

For these items contact your nearest Mitsubishi Electric dealer.

Moving the Unit

Set up the handle, then move the unit.

The unit may fall over if you try to forcibly move it that way.

Always move the unit by rolling it on its castors. Before moving the unit, first make sure to remove water from the drainage tank and close the louvre.

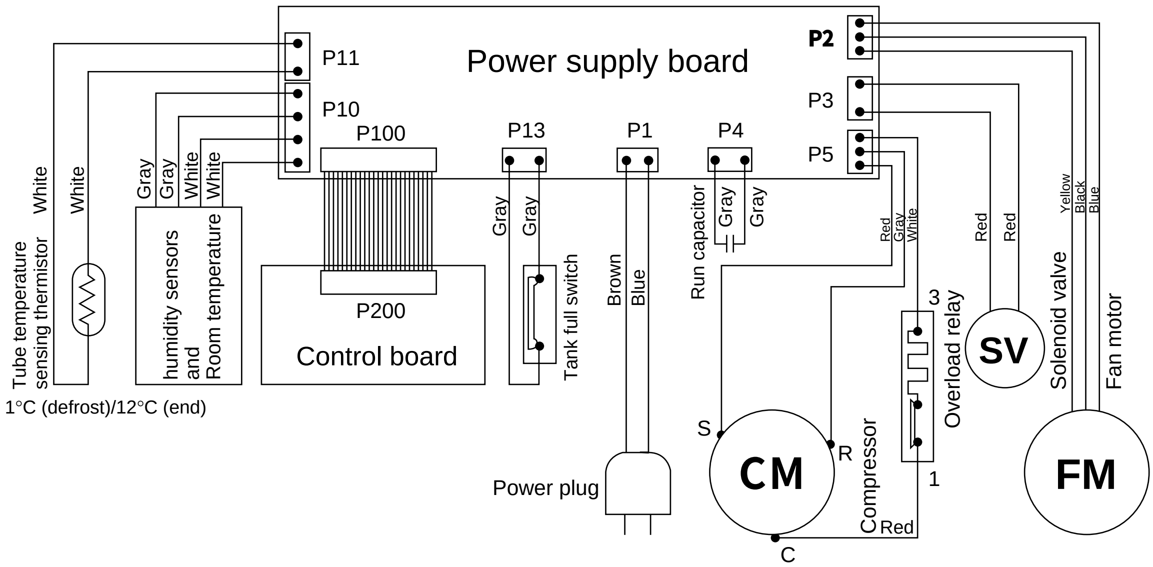
Notes

- When rolling this unit on its castors, make sure that the surface is hard and flat.
- Lift the unit up to move it where there is a different level on a floor such as threshold or steps. Also, avoid rolling the unit on castors on a long pile carpet. This can damage the surface of the carpet.

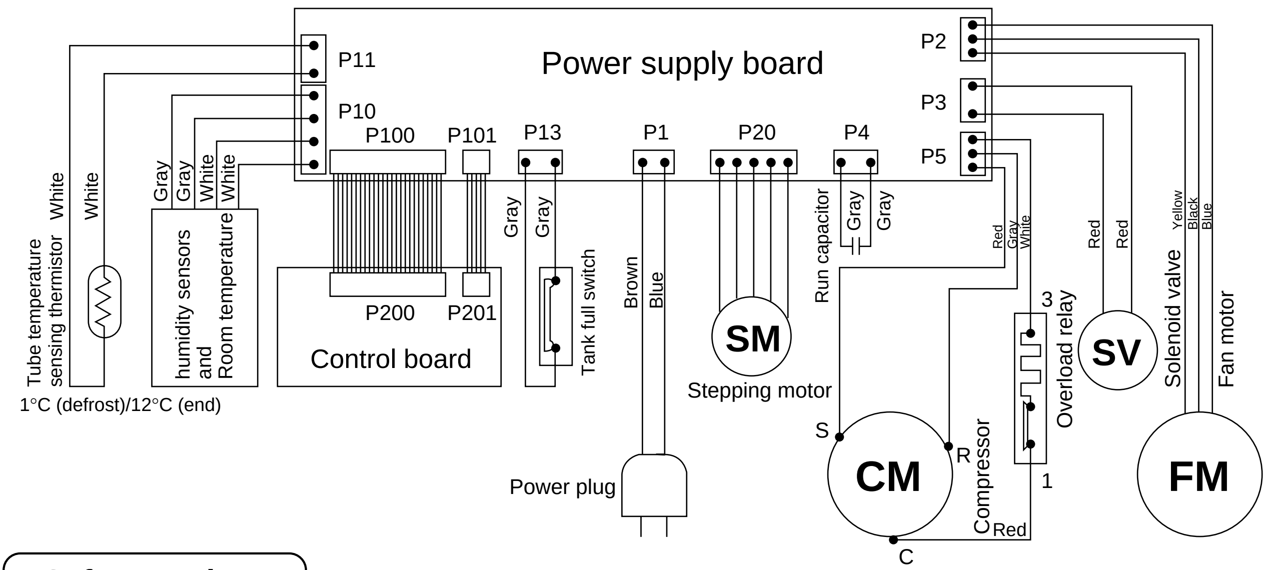
6. Wiring Diagram and Block Diagram

6.1 Wiring Diagram

<MJ-E16P-S1, E1>



<MJ-E16PX-S1, E1>



Safety Devices

(1) Current fuse....................Overcurrent flow caused by degraded electrical parts turns off the power. Current setting: 2 A

(2) Motor protector ....Room temperatures exceeding about 40°C shut down the compressor.
(Overload relay)..............The compressor also shuts down when it is locked or otherwise malfunctions, with current flow exceeding 1.5A.

(3) Control circuitry ....The room temperature thermistor, on sensing a room temperature below about 0°C, shuts down the compressor.

(4) Thermal fuse ....The blower shuts down when it is locked or otherwise malfunctions, with its temperature exceeding 133°C.

6.2 Function List

[MJ-E16P-S1, E1]

		Compressor	Blower	Solenoid valve	Indications								
					Auto	High (Landry)	Low	Low temp	Air purifier	Off timer	Tank full	Defrost	Cold
Operation modes	Operation off	OFF	OFF	OFF	×	×	×	×	×	×	×	×	×
Dehumidification	Auto	ON/OFF	Mi/Lo /OFF	OFF	○	×	×	×	×	○	×	×	△
Dehumidification	High (Laundry)	ON	Hi	OFF	×	○	×	×	×	○	×	×	△
Dehumidification	Low	ON	Lo	OFF	×	×	○	×	×	○	×	×	△
Dehumidification	Low temp	ON	SH/Hi	OFF	×	×	×	○	×	○	×	×	△
	Air purifier	ON	Mi	OFF	×	×	×	×	○	○	×	×	△
	Defrosting	ON	OFF	ON	Any one of the features is marked ○.				×	○	×	○	△
	Tank full	OFF	OFF	OFF	×	×	×	×	×	○	○	×	×
	Off timer	OFF	OFF	OFF	×	×	×	×	×	2hr	×	×	×

※○: On △: May be on ×: Off

1) Auto-dehumidification control

Humidity rank	When humidity is high	When humidity is low	Compressor
Rank 2	62% or higher		ON
Rank 1	52% or higher	60% or lower	ON
Rank 0		50% or lower	OFF

2) Fan control

Room temperature (°C)		→ 16	→ 29	→ 36	
		← 14	← 27	← 34	←
Automatic dehumidification	Humidity rank 2	Mi			HH
Automatic dehumidification	Humidity rank 1	Lo (B)		Lo (A)	HH
Automatic dehumidification	Humidity rank 0	OFF			HH
Low		Lo (B)		Lo (A)	HH
High (Laundry)		Hi			HH
Low temp		SH	Hi		HH
Air purifier		Mi			HH

※Set the speed to HH at room temperatures above 36°C.

[MJ-E16PX-S1, E1]

		Operation modes											
		Operation off	Dehumidifying operation: Automatic dehumanization	High	Low	Low temp	Air Purifier	Tank full	Defrosting	Off time running	On timer being set	On timer counting	Child lock mode
Compressor		OFF	—	ON	ON	ON	OFF	OFF	ON	—	OFF	OFF	—
Blower		OFF	—	ON	ON	ON	ON	OFF	OFF	—	OFF	OFF	—
Solenoid valve		OFF	OFF	OFF	OFF	OFF	OFF	OFF	ON	—	OFF	OFF	—
Swing louver		Closed	▲	△	△	△	△	Stopped	Stopped	△	Closed	Closed	—
LED display	Operation modes	×	Auto	High	Low	Low temp	Air Purifier	×	□	□	■	□	—
	Swing modes	×	△	△	△	△	△	×	△	△	△	△	—
	Tank full	×	×	×	×	×	×	○	×	×	×	×	—
	High Humidity	—	×	×	×	×	×	×	×	×	×	×	—
	Child	—	—	—	—	—	—	—	—	—	—	—	○
	Cold	×	☆	☆	☆	☆	☆	×	☆	☆	☆	☆	—
LCD	Temperature (set/current)	○	○	○	○	○	○	○	○	○	○	○	—
	Humid monitor	×	○	○	○	○	×	×	○	○	◇	◇	—
	Sun/Umbrella	×	◆	×	×	×	×	×	×	×	×	×	—
	Swing monitor	×	△	△	△	△	△	×	▼	△	▼	▼	—
	On/off timer	×	×	×	×	×	×	×	×	○ Off	◎ On	○ On	×
Switches	Operation	○	○	○	○	○	○	○	○	○	○	○	×
	Auto-defrost	×	○	○	○	○	○	×	○	○	○	○	×
	Continuous operation	×	○	○	○	○	○	×	○	○	○	○	×
	Low temp	×	○	○	○	×	○	×	○	○	○	○	×
	Air purifier	×	○	○	○	○	×	×	○	○	○	○	×
	Swing switch	×	○	○	○	○	○	×	○	○	○	○	×
	Swing mode	×	△	△	△	△	△	×	△	△	△	△	×
	On/off timer	○	○	○	○	○	○	○	○	○	○	○	○

Note ○ : On/operable
◎ : Timer time/on indication flashing
× : Off/stopped/inoperable
△ : Operable only when swing on/on
▲ : Operable only when swing on and blower fan rotating
▼ : On (blade not shown; only moving range shown)
□ : LED associated with operation mode on
■ : LED associated with operation mode flashing
◆ : Set humidity ≤ current humidity → Umbrella; set humidity ≥ current humidity → Sun
◇ : Shown when stopped
☆ : On at room temperatures of 14°C or lower
– : Dependent on situations

1) Auto-dehumidification control

(a) The compressor and blower fan are switched according to the current humidity and the humidity setting.
(b) The compressor and blower fan are run for 15 (–1) minutes after the operation switch is turned on, regardless of the humidity.

	Down	Up	Compressor	Blower fan: ← 27°C	29°C → ← 34°C	36°C → ←
Set humidity – Current humidity	↓	↑ +5%	ON	Rank 3	Rank 3	Rank 6
	–1% ↓	↑ 0%	ON	Rank 1	Rank 2	Rank 6
	–6% ↓	↑	OFF	Stopped	Stopped	Stopped

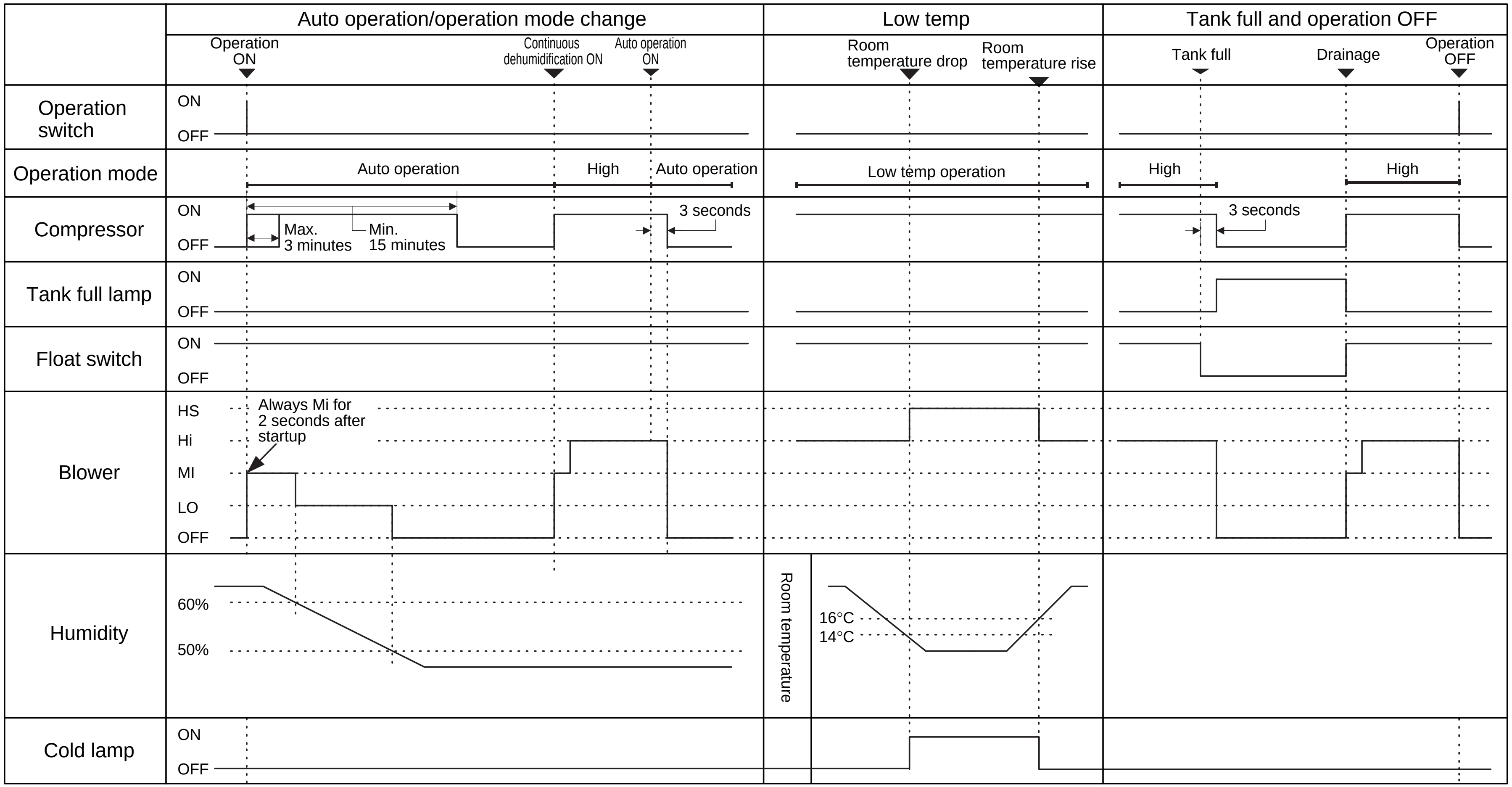
2) Fan control

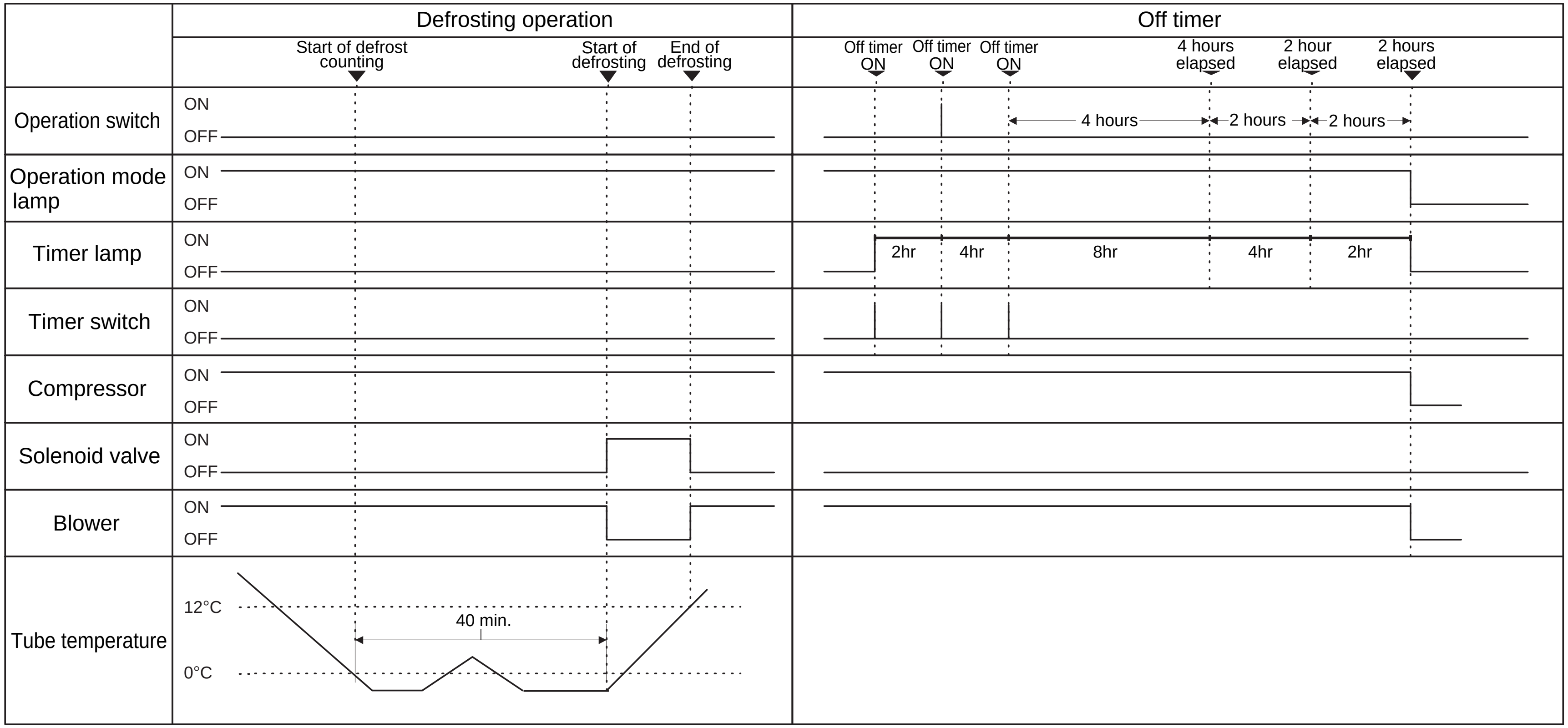
	Compressor	Blower fan: → ← 14°C	16°C → ← 27°C	29°C → ← 34°C	36°C → ←
Continuous operation, high	ON	Rank 4	Rank 4	Rank 4	Rank 6
Continuous operation, low	ON	Rank 1	Rank 1	Rank 2	Rank 6
Low temp	ON	Rank 5	Rank 4	Rank 4	Rank 6
Air Purifier	OFF	Rank 3	Rank 3	Rank 3	Rank 6

* Rank1 = Lb, rank 2 = La, rank 3 = Mi, rank 4 = Hi, rank 5 = SH, rank 6 = HH

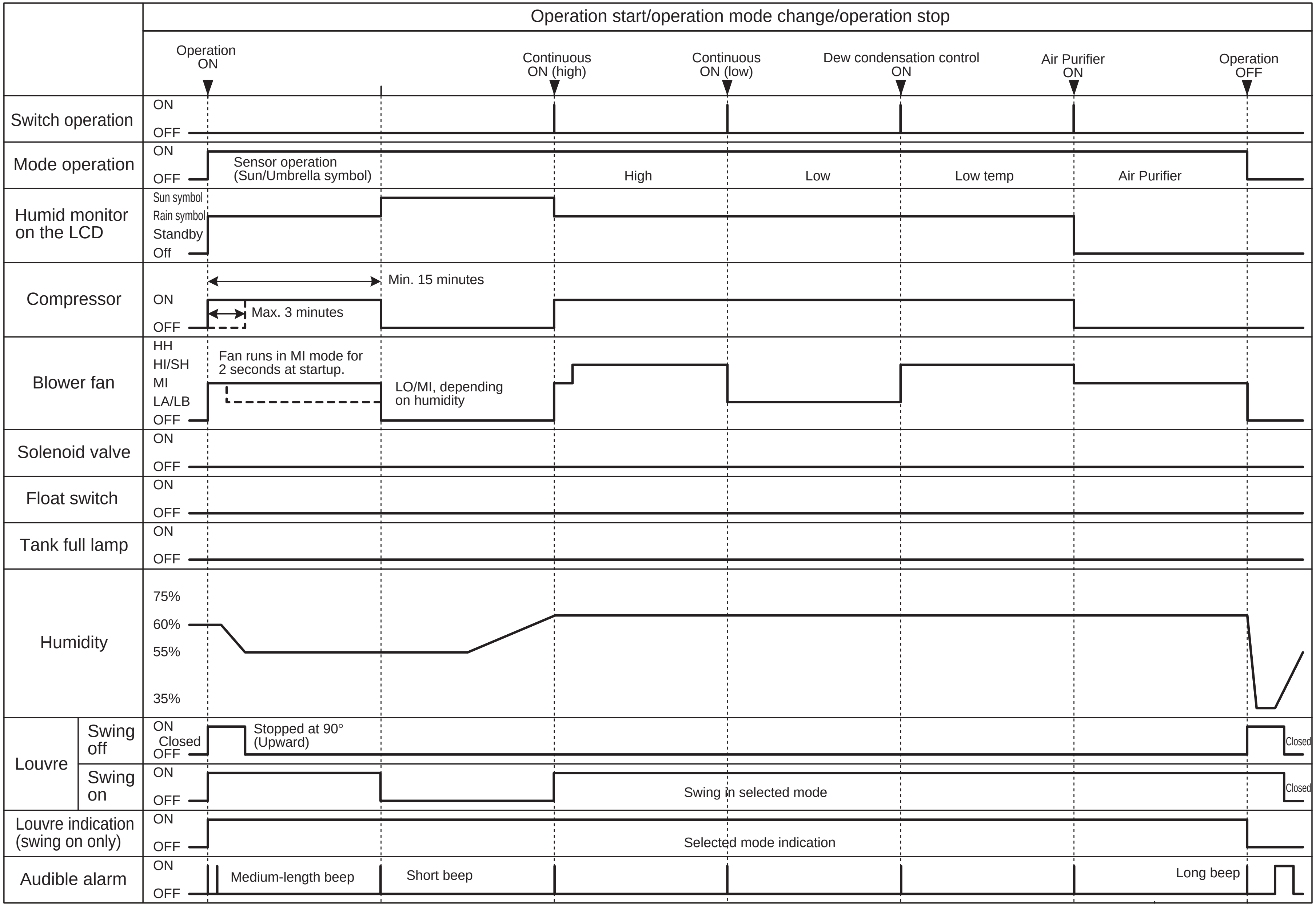
6.3 Timing Charts

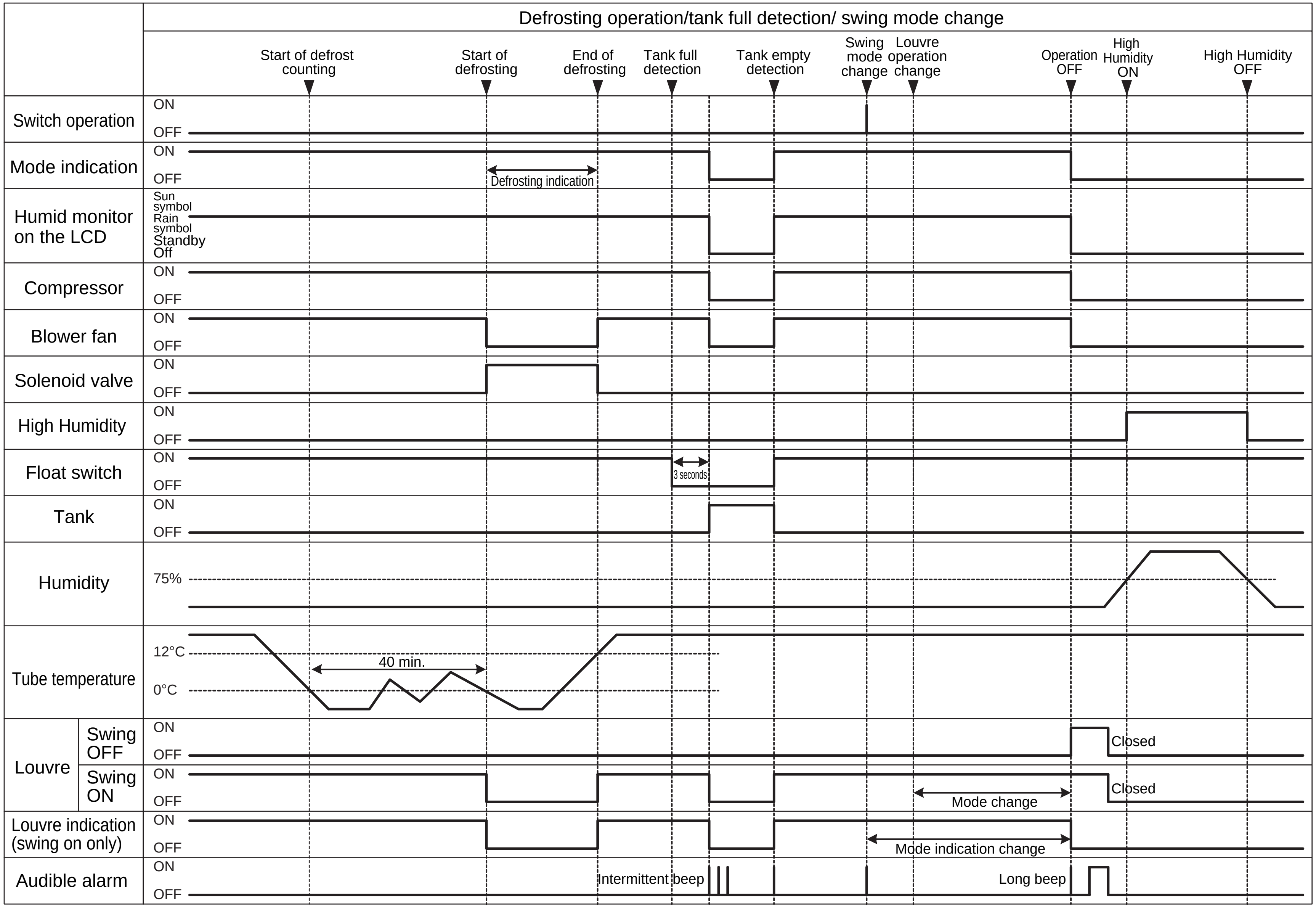
[MJ-E16P-S1, E1]



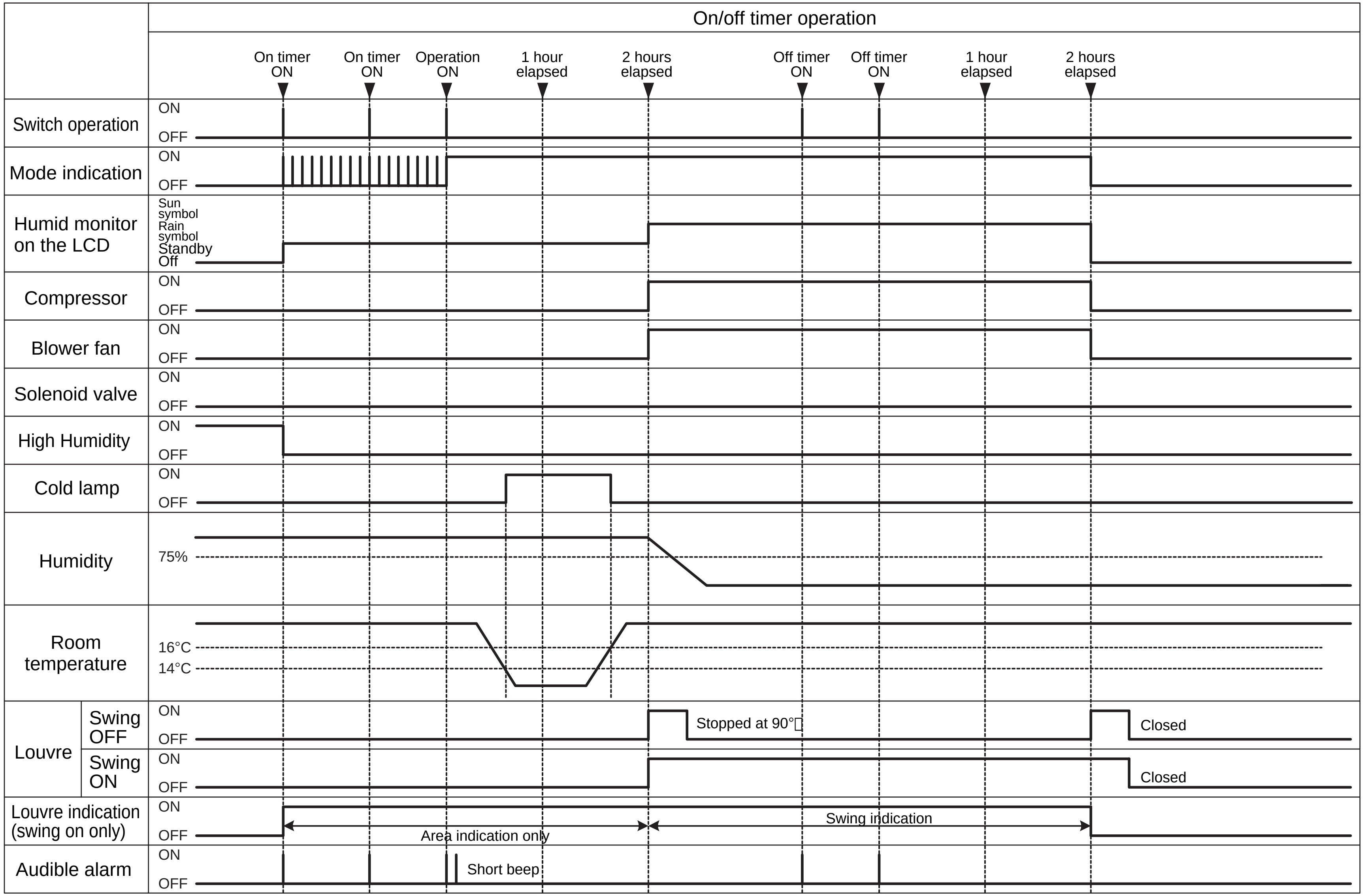

Defrosting operation
Off timer
Start of defrost counting
Start of defrosting
End of defrosting
Off timer ON
Off timer ON
Off timer ON
4 hours elapsed
2 hour elapsed
2 hours elapsed
Operation switch
Operation mode lamp
Timer lamp
Timer switch
Compressor
Solenoid valve
Blower
Tube temperature
ON
OFF
4 hours
2 hours
2 hours
2hr
4hr
8hr
4hr
2hr
12°C
40 min.
0°C

[MJ-E16PX-S1, E1]





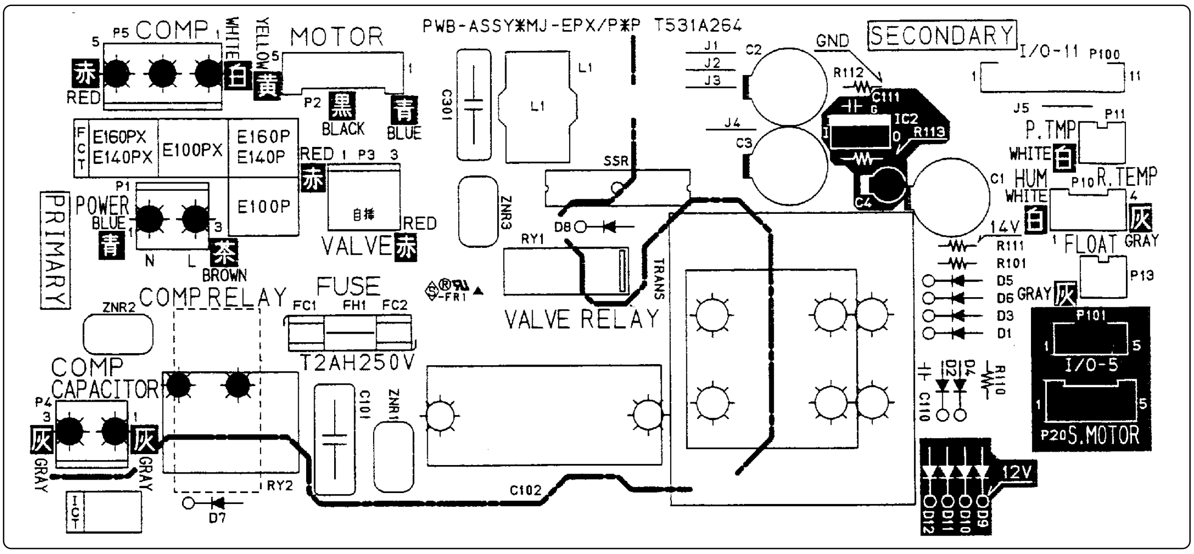
Defrosting operation/tank full detection/ swing mode change
Start of defrost counting
Start of defrosting
End of defrosting
Tank full detection
Tank empty detection
Swing mode change
Louvre operation change
Operation OFF
High Humidity ON
High Humidity OFF
Switch operation
Mode indication
Humid monitor on the LCD
Compressor
Blower fan
Solenoid valve
High Humidity
Float switch
Tank
Humidity
Tube temperature
Louvre
Swing OFF
Swing ON
Louvre indication (swing on only)
Audible alarm
ON
OFF
Sun symbol
Rain symbol
Standby
Off
Defrosting indication
3 seconds
75%
12°C
0°C
40 min.
Closed
Mode change
Mode indication change
Intermittent beep
Long beep



On/off timer operation
On timer ON
On timer ON
Operation ON
1 hour elapsed
2 hours elapsed
Off timer ON
Off timer ON
1 hour elapsed
2 hours elapsed
Switch operation
Mode indication
Humid monitor on the LCD
Sun symbol
Rain symbol
Standby
Off
Compressor
Blower fan
Solenoid valve
High Humidity
Cold lamp
Humidity
75%
Room temperature
16°C
14°C
Louvre
Swing OFF
Swing ON
Stopped at 90°
Closed
Closed
Louvre indication (swing on only)
Area indication only
Swing indication
Audible alarm
Short beep
ON
OFF

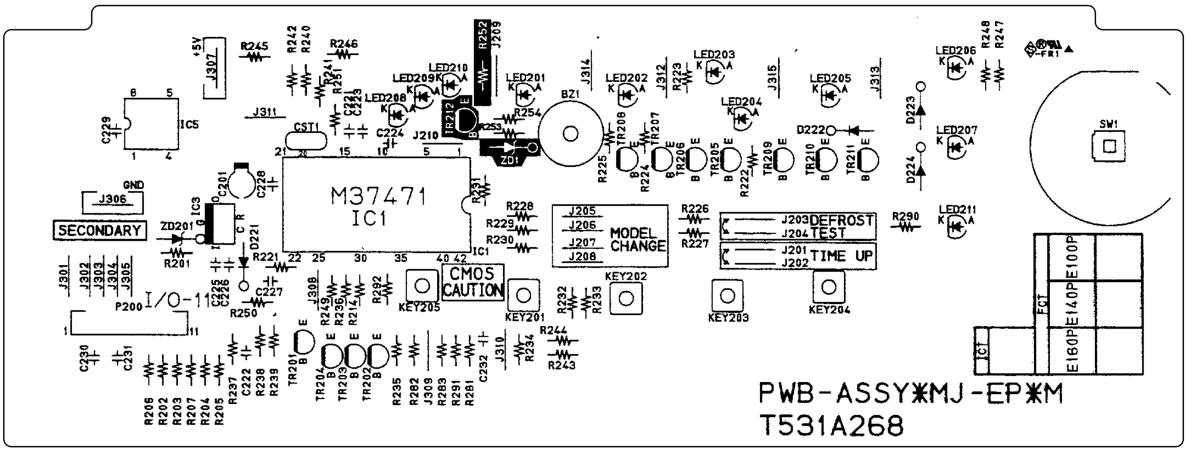
6.4 Board Diagrams (Component Side)

[Power supply board diagram]

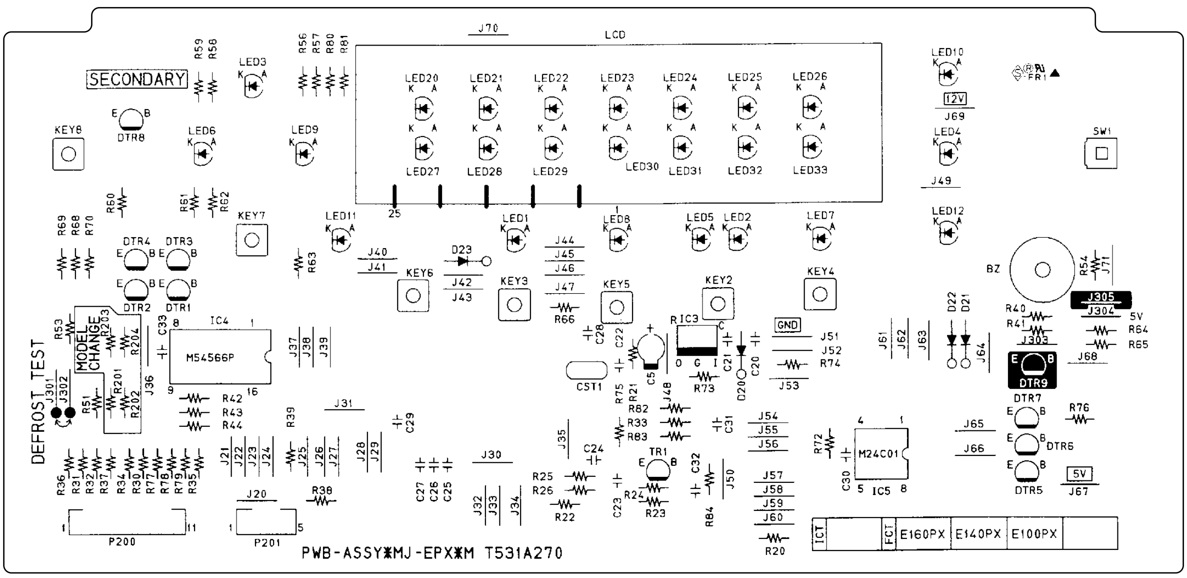


[Control board]

<MJ-E16P-S1, E1>

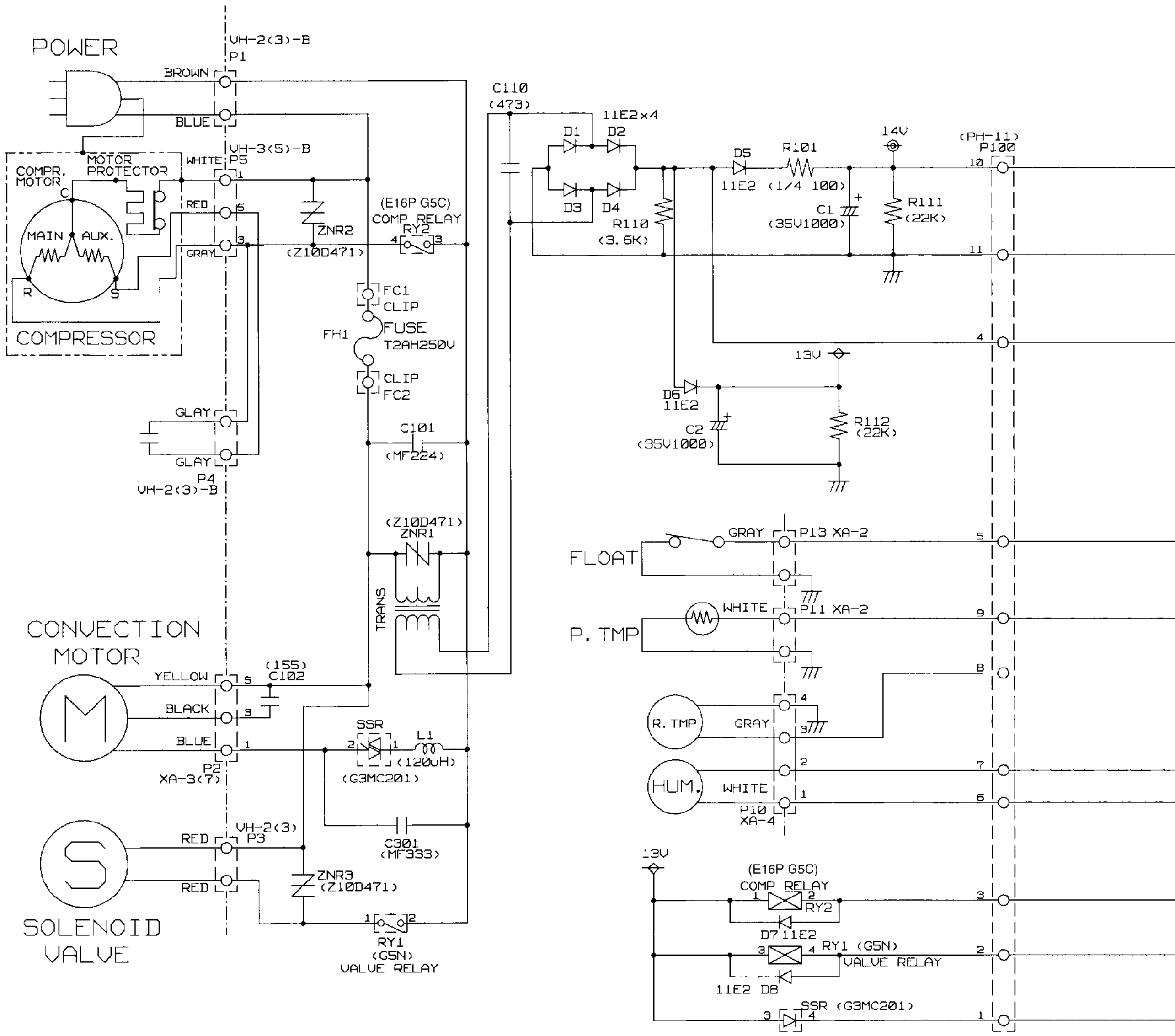


<MJ-E16PX-S1, E1>



6.5 General Block Diagram

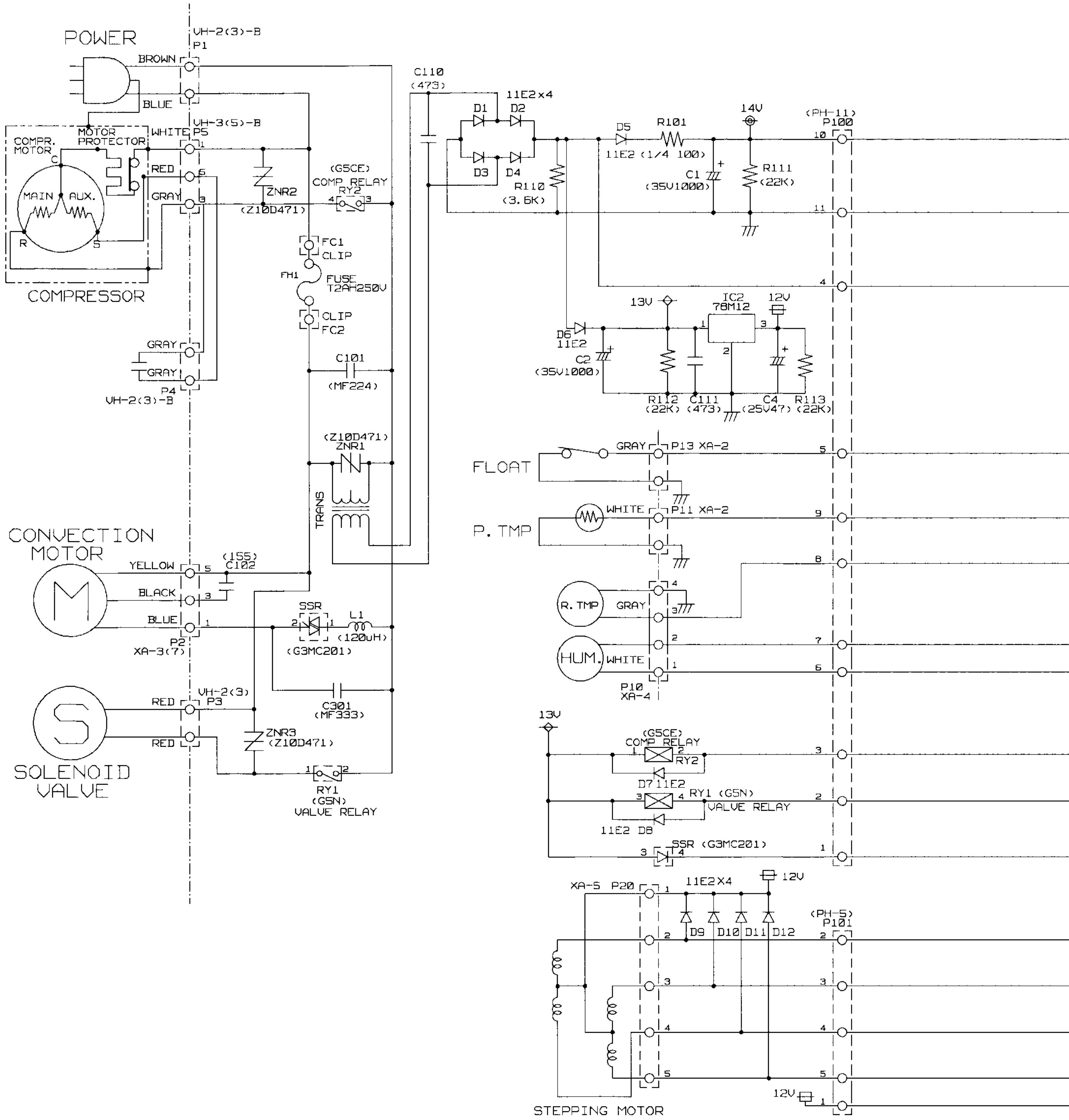
<MJ-E16P-S1, E1>



MODEL CHANGE

	J205	J206	J207	J208
MJ-E16P	INSERT	INSERT	INSERT	INSERT

<MJ-E16PX-S1, E1>



MODEL CHANGE

	R201	R202	R203	R204
MJ-E16PX	10K	10K	—	—

7. Troubleshooting Procedure

7-1 Troubleshooting flowchart

The unit does not dehumidify at all

Note: The compressor won't start when the unit is set in the clean air mode.

Start

↓

Check AC power supply — Abnormal → Restore AC power supply

↓ Normal

Has the fuse blown out? — Blown → Replace fuse

↓ Not blown

Is the float switch turned on? — OFF → Mechanical check
- Correct defects.
- Replace the switch if defective.

↓ ON

Control board connector check

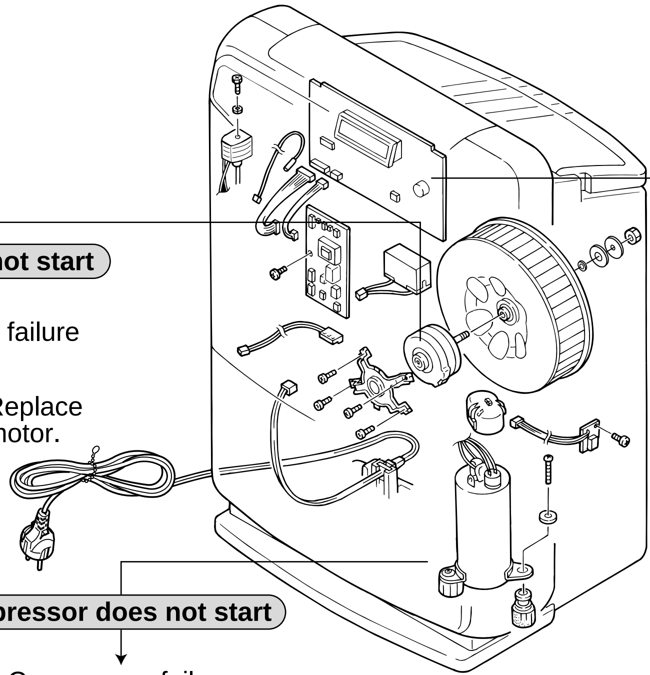
※With the power plug removed from the receptacle, remove and insert each connector two to three times to improve its contact. Then, insert the power plug into the receptacle to make an operation check. Make sure that the flat cable and the connectors are inserted in straight direction.

↓ Uncorrected

Replace control board

7.2 One-Point Service

<Illustration shows MJ-E16PX-S1>



Fan does not start

↓

Fan motor failure

↓

Action: Replace the fan motor.

Compressor does not start

↓

Compressor failure

↓

Action: Replace the compressor.

Unit does not run

↓

Float switch operation switch

↓

Operation switch operation switch

↓

Control board leadwire connection check

↓

Control board failure

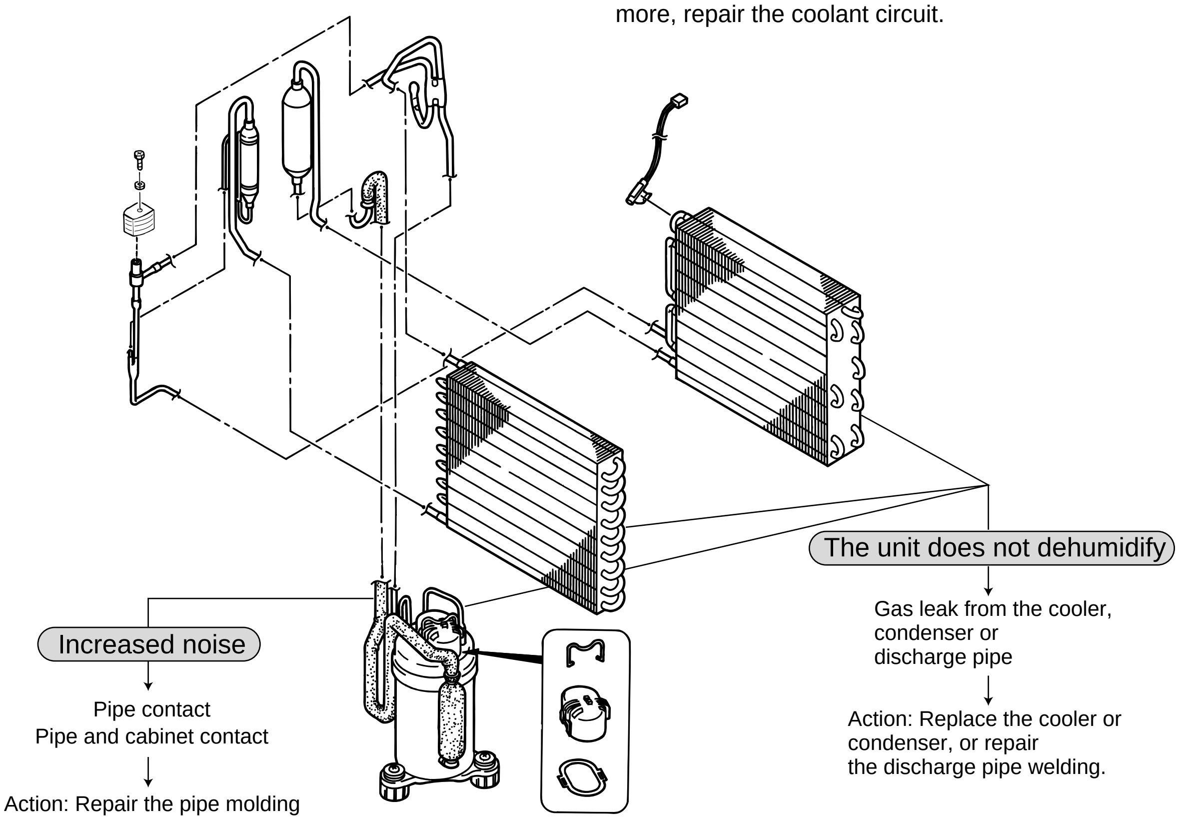
↓

Action: Replace the control board

※ 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: fi Action: Clean.
2 Low-temperature, low-humidity operating environment:
   fi Action: See the explanation of the graph on page 10, or move the unit to a kitchen or bathroom and request verification of its performance.

H If the problem persists, check the cooler tube temperature.
Normal: At least 10°C lower than the room temperature fi If not lower than the room temperature by 10°C or more, repair the coolant circuit.



7.3 Key Component Check Procedures

<table>
<tr><th>Component name</th><th>Testing procedure</th></tr>
<tr><td>Tub temperature sensing thermistor
P11</td><td>Detach the connector and measure the resistance using a multimeter (component temperature: 10°C to 30°C).
<table><tr><th>Normal</th><th>Abnormal</th></tr><tr><td>Between P11 pins: 8.0kΩ to 20.8 kΩ</td><td>Open or shorted</td></tr></table></td></tr>
<tr><td>Room temperature and humidity sensor board</td><td>Normal: 47 to 51 kΩ (between P10 pins 3 and 4)
Abnormal: Open or shorted</td></tr>
<tr><td>Compressor</td><td>With the connector detached, measure the resistance across the terminals using a multimeter (winding temperature: 10°C to 30°C).
<table><tr><th></th><th>Normal</th><th>Abnormal</th></tr><tr><td>C-R side</td><td>25.0Ω ~ 27.1Ω</td><td rowspan="2">Open or shorted</td></tr><tr><td>C-S side</td><td>67.9Ω ~ 73.5Ω</td></tr></table></td></tr>
<tr><td>Fan motor</td><td>Measure the resistance between terminals using a multimeter (winding temperature: 10°C to 30°C).
Normal: M (yellow to blue): 292 to 316Ω; S (black to blue): 317 to 343Ω
Abnormal: Open or shorted</td></tr>
<tr><td>Solenoid valve coil</td><td>Measure the resistance between terminals using (component temperature: 10°C to 30°C).
<table><tr><th>Normal</th><th>Abnormal</th></tr><tr><td>1393Ω ~ 1507Ω</td><td>Open or shorted</td></tr></table></td></tr>
</table>

7.4 Error Indications and Corrective Actions (E16PX-S1, E1)

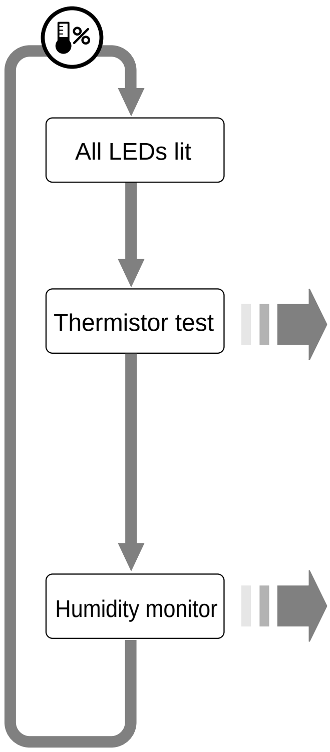
Indication (Timer time display)	Error (failure)	Corrective action
E0	P10 connector out of position Room temperature thermistor blowout	Check the P10 connection. Check the room temperature and humidity sensor board.
E1	Room temperature thermistor short Room temperature and humidity sensor board failure	
E7	P11 connector out of position Tube temperature thermistor blowout	Check the P11 connection. Check the tube temperature thermistor.
E8	Tube temperature thermistor short Tube temperature sensor failure	
A1	Microprocessor failure RAM error	Replace the main board.
A2	Frequency determination error	Check the receptacle and the 200 to 224 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. Check the tube temperature thermistor. Check the compressor operating noise.

Request: For failures caused by improper handing by the customer, such as dropping the unit, splashing it with drinks, hitting it against other objects, or running it without a filter installed, carry out repairs on a fee basis even if the warranty period has not expired.

7.5 Self-Test Program and Execution Procedure

[MJ-E16P-S1, E1]

- Start: Set the operation switch to ON and then press the auto-humidification switch and the Low temp switch 4 times simultaneously. Set the operation switch to ON within 2 seconds.
- Mode selection: Use the auto-humidification switch to change through test modes.



Self-test indications ☼: Lit

	Tube temperature thermistor			Room temperature thermistor		
Indication	2hr	4hr	8hr	Low temp	Low	High
Normal	☼	☼		☼	☼	
Blowout	☼			☼		
Short	☼	☼	☼	☼	☼	☼

In the event of blowouts and shorts, check the P11 (tube temperature thermistor) connection, the P10 (room temperature thermistor) connection, and the individual thermistors.

Humidities detected are displayed in hexadecimal on the LEDs (max. 83%, min. 50%).

Example: 83% ☼: Lit

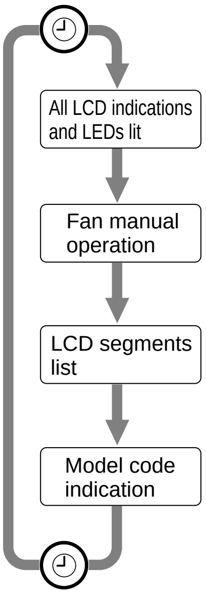
	8				3			
	LED indication				LED indication			
Indication	2hr	4hr	8hr	Low temp	Low	High	Auto-dehumidification	Tank full
Normal	☼						☼	☼

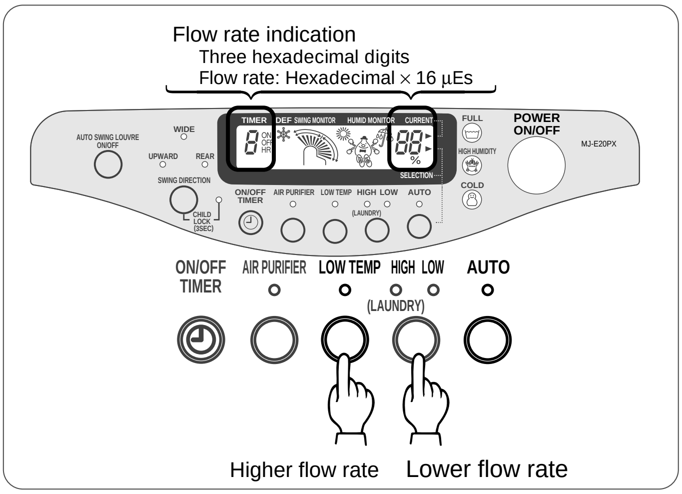
[MJ-E16PX-S1, E1]

(1) LCD and fan tests

●Start: Set the operation switch to ON and then press the auto-humidification switch and the dew condensation control switch 4 times simultaneously. Set the operation switch to ON within 2 seconds.

●Mode selection: Use the timer switch to change through test modes.



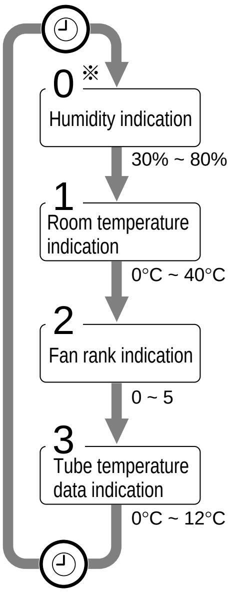


Press four times to return to the state of all LEDs on the LCD being lit up.

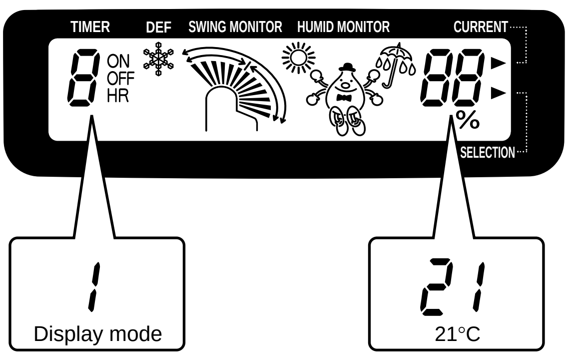
(2) Monitor display

●Start: Set the operation switch to ON and then press the auto-humidification switch and the dew condensation control switch 5 times simultaneously. Set the operation switch to ON within 2 seconds.

●Mode selection: Use the time switch to change through display modes (0 to 3).



Example: Room temperature 21°C



8. Disassembly and Reassembly Hints

*The pictures show an MJ-E16PX as an example.

8.1 Disassemble Procedure

1. Remove the filter and the drainage tank

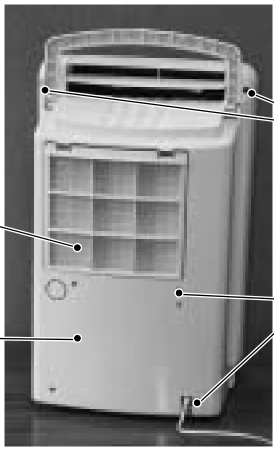
(See Pictures 1 and 2.)

2. Detach the rear panel

Step 1) Remove the rear panel setscrews (6).
(See Picture 2.)

2) Pull out the rear panel.
(See Picture 3)

Picture 2



3. Detach the front panel assembly

Step 1) Detach the rear panel as directed in Procedures 1 and 2 above.

2) Remove the front panel setscrews (2 on each side of the front).
(See Picture 3.)

3) Slide the front panel upward, then forward (straight) to avoid the swing louver.

4) Pull the front panel forward and remove it by releasing the main board connectors (P100, P101) and leadwire set tape from the power supply board.

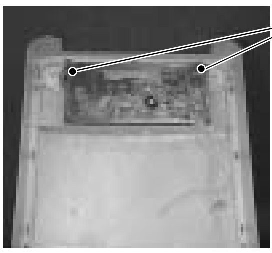
Repairable parts	Control board, power supply board, solenoid valve, tube temperature sensor, room temperature and humidity sensor, stepping motor

Demounting the control board

Step 1) Remove 5 control board setscrews.
(See Picture 6.)

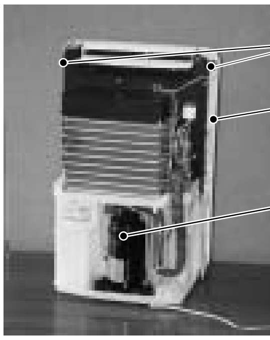
2) Lift off the board.

Picture 6

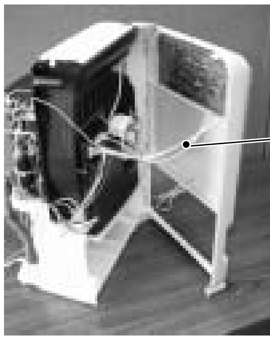


Picture 1

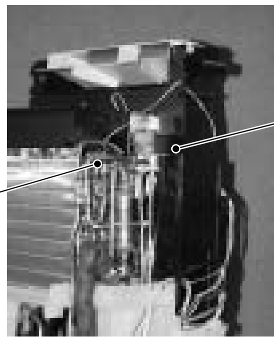
Picture 3



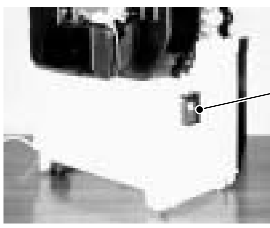
Picture 4



Picture 5



Picture 7



Demounting the power supply board

Step 1) Detach the connector cover.

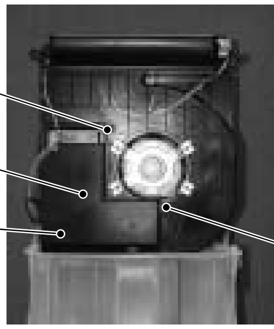
2) Pull out the board connectors.

3) Pull out the board holder assembly setscrews (3) and remove the holder assembly. (See Picture 8.)

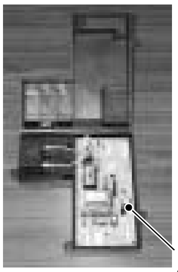
4) Open the cover by unhooking it from the board holder. (See Picture 9.)

5) Remove the compressor capacitor and the connector (P4) and demount the board. (See Picture 9.)

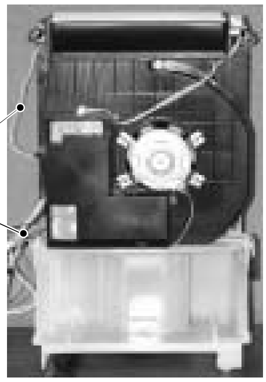
Picture 8



Picture 9



Picture 10



4. Removing the blower fan assembly

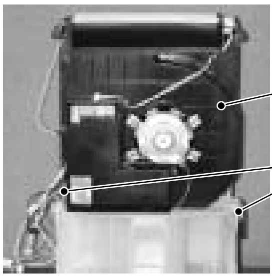
Step 1) Detach the front panel assembly and rear panel as directed in Procedures 1 to 3 above.

2) Disconnect leadwires from the motor support case. (See Picture 10.)

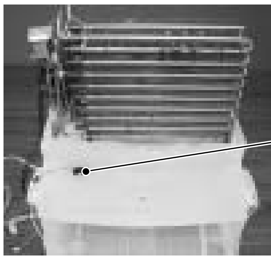
3) Remove blower fan assembly setscrews (2). (See Picture 11.)

4) Lift of the blower fan assembly.

Picture 11



Picture 12



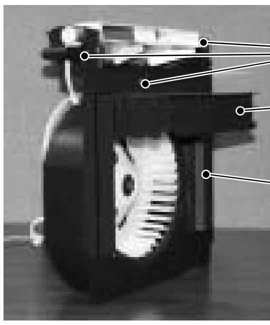
Repairable parts:	Float switch, blower motor, and blower fan

Removing the float switch

Step 1) Remove the float switch.

Note: Handle the float switch with care when removing and reinstalling it. (See Picture 12.)

Picture 13



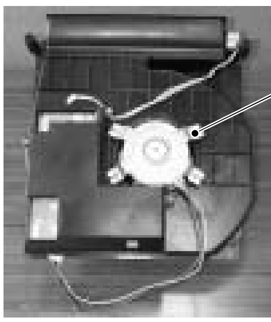
Removing the blower motor

Step 1) Remove setscrews (3) and then release duct hooks (3) to remove the duct. (See Picture 13.)

2) Remove the motor support frame and setscrews (4) to release the support frame. (See Picture 14.)

3) Remove the blower fan and set nut (1) to release the fan.

Picture 14



5. Removing the drain pan assembly

Step 1) Remove the front pan assembly, rear panel, and blower fan assembly as directed in Procedures 1 to 4.

2) Remove filament tapes from the left and right hooks between the drain pan and base and from the middle (3).

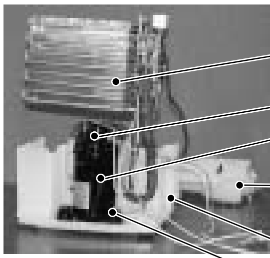
3) With the heat exchangers (heat radiation, cooling) lifted on the right side, raise the drain pan upward to unhook it from the base.

4) Remove the drain pan assembly to avoid the heat exchanger and piping.

(See Picture 15.)

Repairable parts	Heat exchangers (heat radiation, cooling), dryer, thermal relay

Picture 15



6. Removing the compressor and the heat exchanger unit

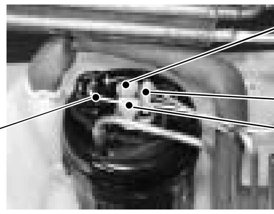
Step 1) Remove the front pan assembly, rear panel, blower fan assembly, and drain pan assembly as directed in Procedures 1 to 4.

2) With some block placed on the right side of the heat exchangers (heat radiation, cooling), remove the compressor setscrews (3).

(See Picture 15.)

3) Holding the compressor and heat exchangers by hand, release them from the base.

Repairable parts	Compressor



9. Continuous Drainage of Water

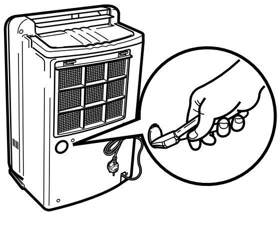
If there is a place nearby where water can be disposed into, the water in the drainage tank can be drained continuously through a commercially available hose (with an inside diameter of 15mm).

⚠CAUTION

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 drainage tank from flowing out. The water may leak from the unit and damage surrounding objects.

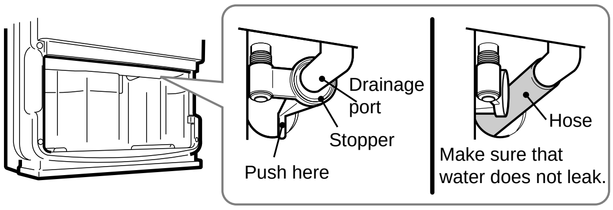
When using the unit after it has been stored for a while, or when draining water continuously for a long time with no assistance, check the unit periodically.
Foreign objects, etc. could clog the hose resulting in heat generation and/or a water leakage.

1 Remove the drainage tank, then open the continuous drainage port.



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

2 Insert the hose into the continuous drainage port.



While pushing the stopper, put a commercially available hose (with the inside diameter of 15 mm) through the continuous drainage port hole, then push it firmly onto the drainage port.

3 Set the tank back in its place.

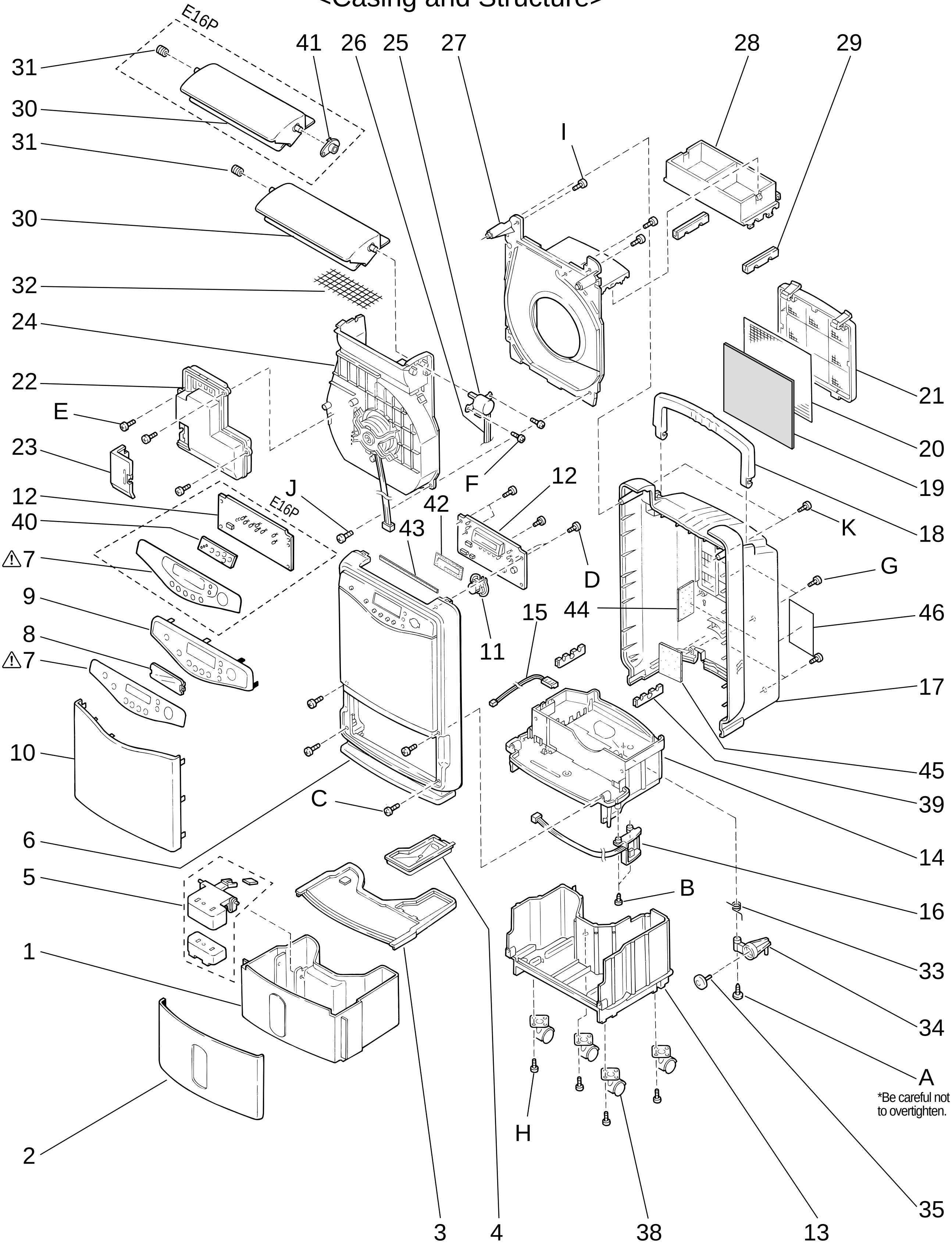
Check the hose periodically to make sure that it is firmly connected to the port and has not deteriorated. It is recommended to inspect the unit every fortnight.
(Foreign objects, such as insects, dirt, etc. could clog the hose resulting in a water leakage and/or malfunction.

How to fix the drainage hose

If any point of the hose is bent up, the unit's tank full detector will activate, and subsequently stop the unit making the continuous drainage operation impossible. It may also cause water leakage and/or electric shock.

Parts Catalog

Model MJ-E16P / E16PX-S1, E1 Exploded View
<Casing and Structure>



Parts Catalog

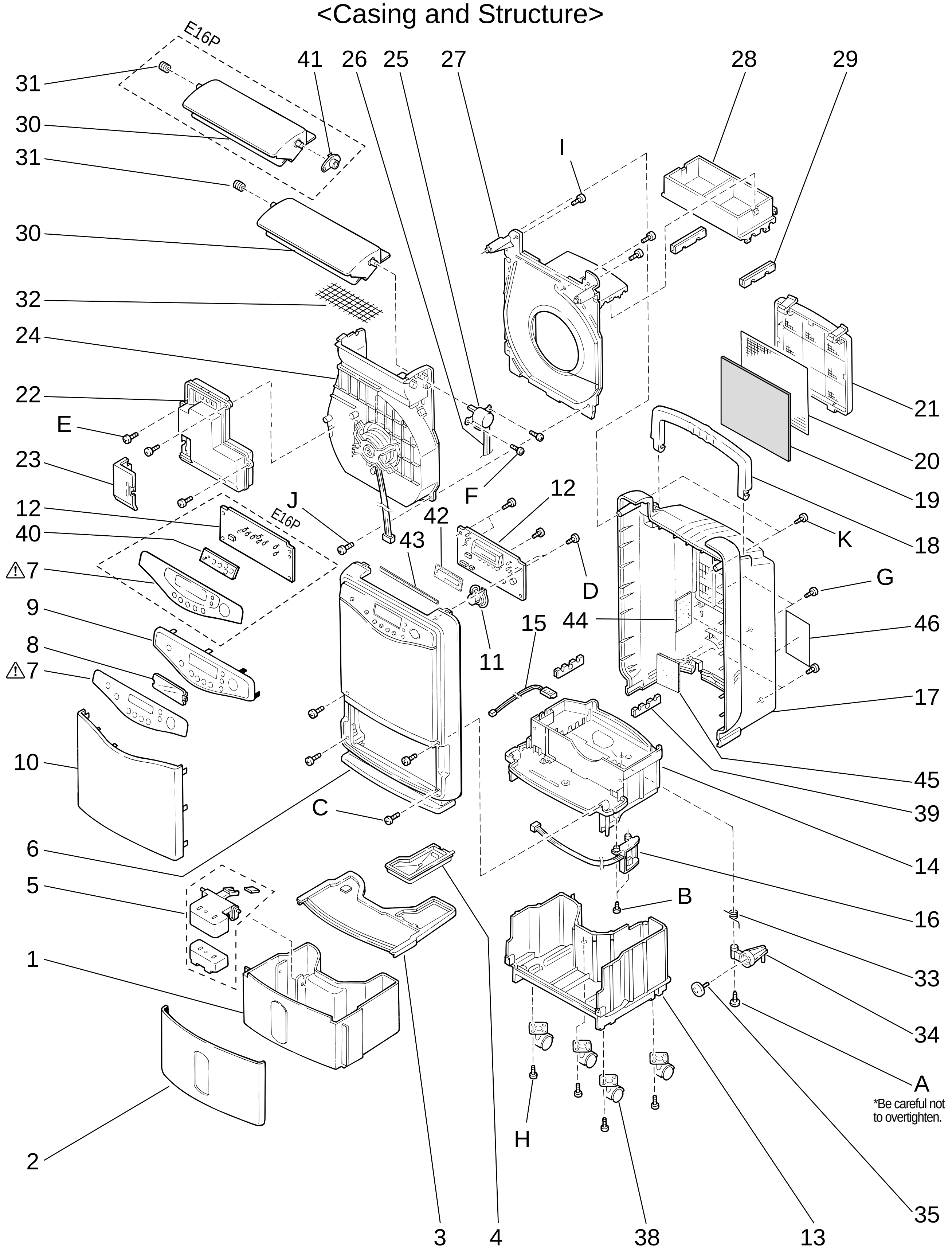
Model MJ-E16P / E16PX-S1, E1 Parts List
<Casing and Structure>

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 parts at replacement.

Exploded View Matching No.	Part No.	Part Name	Pc/1 unit	New Part	Safety Part	Reference
1	M22 J90 738	TANK-P(X)	1			
2	M22 J90 777	COVER-TANK ✶ 100(C)	1			
3	M22 J90 697	LID-TANK-P(X)	1			
4	M22 J90 737	LID-TANK2 ✶ P(X)	1			
5	M22 J90 379	FROAT-P(X) ✶ ASSY	1			
6	M22 J90 233	CASE-F ✶ P(X)	1			
7	M22 C07 050W	ESC-SW ✶ E16P(W)	1	NEW		for use with E16P
7	M22 C10 050	ESC-SW ✶ E16PX(C)	1	NEW		for use with E16PX
8	M22 J91 253	CLEAR-PLATE ✶ PX	1			E16PX only
9	M22 J90 781	DECOLATE-PANEL ✶ 100(C)	1			
10	M22 J90 001	PANEL-F ✶ 100(C)	1			
11	M22 C01 321	KNOB-P ✶ EP(X)	1			
12	M22 C02 450	PCA ✶ MJ-E100P ✶ M	1		⚠	for use with E16P
12	M22 C01 450	PCA ✶ MJ-E100PX ✶ M	1	NEW	⚠	for use with E16PX
13	M22 B03 290	BASE-100R(X)	1			
14	M22 J90 700	DRAINPAN-P(X)	1			
15	M22 J67 312	SWITCH-LEVEL ✶ N	1		⚠	
16	————	COVER-SENSOR	1			
17	M22 J91 232	CASE-R ✶ P(X)	1			
18	M22 J90 063	HANDLE-P(X)	1			
19	M48 5C5 811	MJPR-PXFT	1			
20	M22 J90 102	FILTER-NET ✶ P	1			
21	M22 J90 100	FILTER ✶ P(X)	1			
22	M22 B03 081	BOX-PCA ✶ P(X)	1			
23	M22 B03 094	COVER-BOX-P(X)	1			
24	M22 J90 113	CASING-P(X)	1			
25	M22 J67 401	STEPPING MOTOR ✶ NX	1			E16PX only
26	————	LEAD WIRE S/M ✶ NX	1			E16PX only
27	M22 J90 294	DIVIDING PLATE-P(X)	1			
28	————	SUPPORT PLATE ✶ P(X)	1			
29	————	CUSHION-HEX-U ✶ P(X)	2			
30	M22 J90 045	LOUVER-P(X)	1			

Parts Catalog

Model MJ-E16P / E16PX-S1, E1 Exploded View
<Casing and Structure>



Parts Catalog

Model MJ-E16P / E16PX-S1, E1 Exploded View
<Casing and Structure>

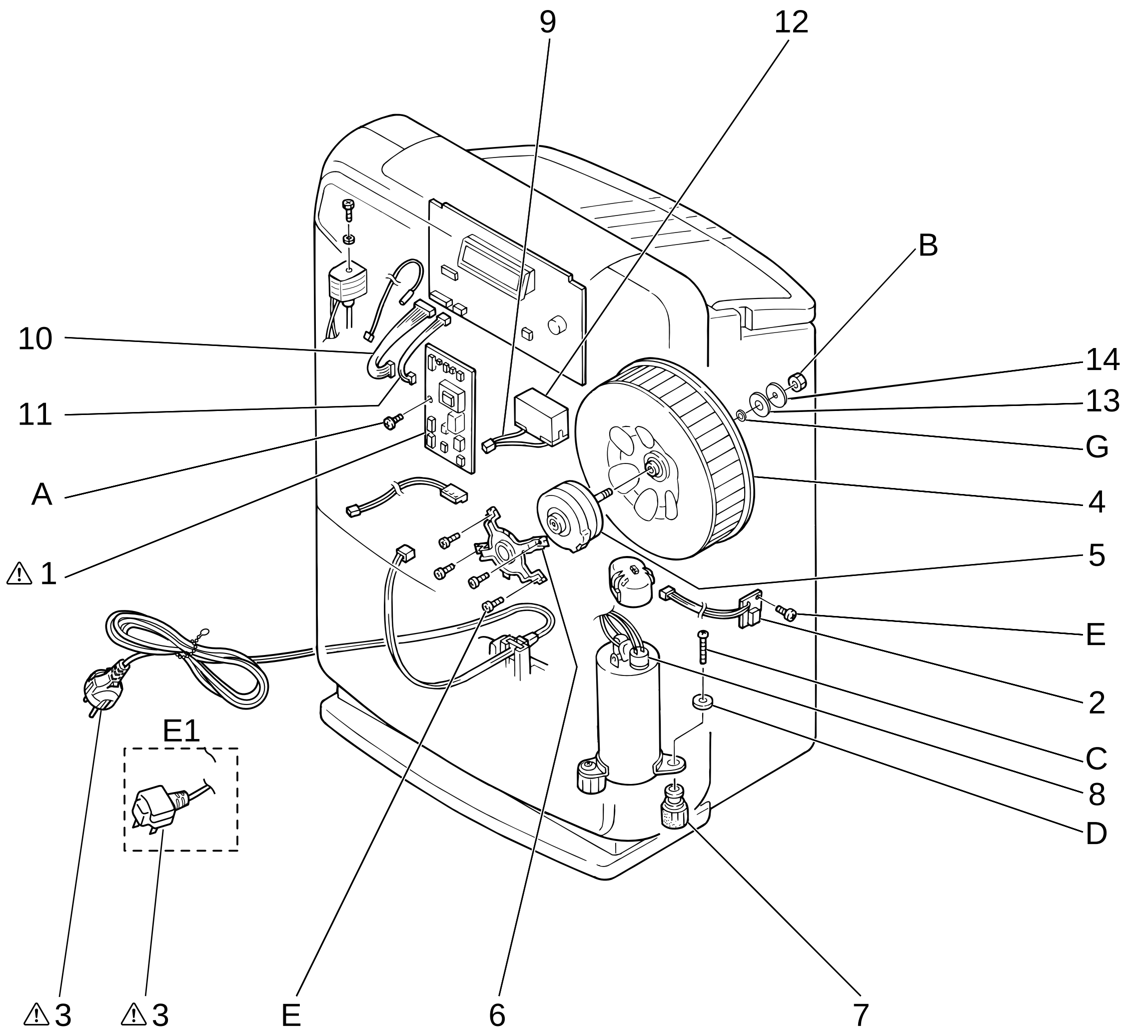
Notes:
① New parts and the parts that are used only with these models lack compatibility.
② Those parts that are marked by ⚠ and ☐ are of critical importance for sustaining safety and performance. Use specified parts at replacement.

Exploded View Matching No.	Part No.	Part Name	Pc/1 unit	New Part	Safety Part	Reference
31	M22 J67 036	SUPPORT-LOUVER ✶ N	1			
32	M22 J90 512	NET ✶ P(X)	1			
33	M22 J90 128	SPRING-S ✶ P(X)	1			
34	M22 J90 788	STOPPER-PLATE ✶ P	1			
35	M22 J67 923	PACKING-RUB	1			
38	M22 J97 909	CASTER-P(X) ✶ VA	4			
39	—	CUSHION-HEX-U ✶ P(W)	2			
40	M22 J90 978	HOLDER-LAMP ✶ P	1			E16P only
41	M22 J67 034	SPRING-LOUVER ✶ N	1			E16P only
42	—	PACKING-FIXTURE ✶ PX	1			E16PX only
43	—	BARRIER-CASING ✶ P(X)	1			
44	—	DAMPER CASE-R(N)	1			
45	—	DAMPER CASE-R(PX)	1			
46	M22 C09 950	NAME-PLATE ✶ E16P-S1	1	NEW		for use with E16P-S1
46	M22 C10 950	NAME-PLATE ✶ E16PX-S1	1	NEW		for use with E16PX-S1
46	M22 C11 950	NAME-PLATE ✶ E16P-E1	1	NEW		for use with E16P-E1
46	M22 C12 950	NAME-PLATE ✶ E16PX-E1	1	NEW		for use with E16PX-E1
	M22 C09 199	I.B ✶ MJ-E16P-S1	1	NEW		for use with E16P-S1
	M22 C10 199	I.B ✶ MJ-E16PX-S1	1	NEW		for use with E16P-S1
	M22 C11 199	I.B ✶ MJ-E16P-E1	1	NEW		for use with E16P-E1
	M22 C12 199	I.B ✶ MJ-E16PX-E1	1	NEW		for use with E16PX-E1
A	—	SCW-SPL STOPPER	1			
B	—	SCW-TPFZ 3×8N	2			
C	—	SCW-PL-TBFZ 4×12	4			
D	—	SCW-TBFN 3×8N	5			
E	—	SCW-PL-TBFZ 4×12	3			
F	—	SCW-TPFZ 3×8N	2			E16PX only
G	—	SCW-PL-TBFZ 4×12	4			
H	—	SCW-PL-TBFZ 4×12	4			
I	—	SCW-PL-TBFZ 4×12	3			
J	—	SCW-PL-TBFZ 4×12	2			
K	—	SCW-MPFZ M4×14-TORX	2			

Parts Catalog

Model MJ-E16P / MJ-E16PX-S1, E1 Parts List
<Electrical Parts>

<Illustration shows MJ-E16PX-S1>



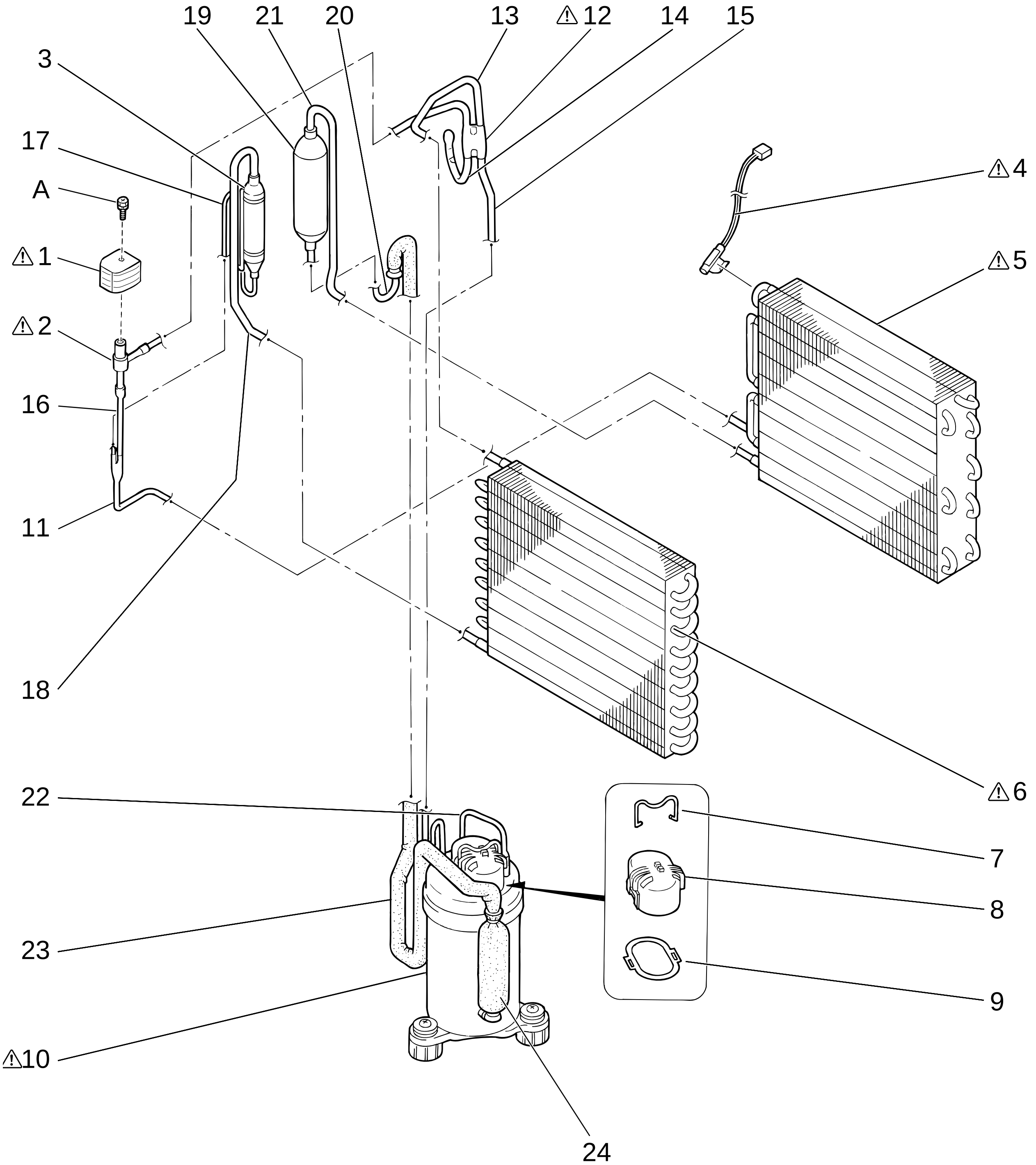
Parts Catalog

Model MJ-E16P / E16PX-S1, E1 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 parts at replacement.

Exploded View Matching No.	Part No.	Part Name	Pc/1 unit	New Part	Safety Part	Reference
1	M22 C02 440	PCA ✶ MJ-E100P ✶ P	1		⚠	for use with E16P
1	M22 C01 440	PCA ✶ MJ-E100PX ✶ P	1		⚠	for use with E16PX
2	M22 J90 311	SENSOR ✶ HUM-P(X)	1		⚠	
3	M22 C09 395	PLUG CORD ✶ EN(X)-S1	1		⚠	for use with E16P/PX-S1
3	M22 C11 395	PLUG CORD ✶ EN(X)-E1	1		⚠	for use with E16P/PX-E1
4	M22 J90 500	FAN-P(X) ✶ ASSY	1		⚠	
5	M22 C01 300	MOTOR ✶ P(X)-230V	1		⚠	
6	M22 J90 518	HOLDING PLATE-M ✶ P(X)	1			
7	M22 J90 511	RUBBER MOUNT ✶ P(X)	3			
8	M22 J75 330	MOTOR PROTECTOR ✶ EN(X)	1		⚠	
9	————	LEAD WIRE R/C ✶ P(X)	1			
10	————	LEAD WIRE M-P ✶ P(X)	1			
11	————	LEAD WIRE M-P ✶ PX	1			
12	M22 C01 353	RUN CAPAITOR ✶ E100PX	1		⚠	E16PX only
13	————	SPACER ✶ K	1			
14	M22 J90 983	WASHER-MJ	1			
A	————	SCW-TBFZ 4×6 P TIGHT	1			
B	M25 239 972	NUT-HFZ M6	1			
C	————	SCW-TPFZ 5×35M	3			
D	————	WASHER	3			
E	————	SCW-PL-TBFZ 4×12	4			
F	————	SCW-TPFZ 3×8N	1			
G	M25 239 927	WASHER-FAN	1			

Model MJ-E16P / MJ-E16PX-S1, E1 Exploded View
<Compressor Parts>



Parts Catalog

Model MJ-E16P / MJ-E16PX-S1, E1 Exploded View
<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 parts at replacement.

Exploded View Matching No.	Part No.	Part Name	Pc/1 unit	New Part	Safety Part	Reference
1	M22 J54 488	SOLENOID COIL	1		⚠	
2	M22 C01 644	SOLENOID VALVE	1		⚠	
3	M22 B09 655	DRYER ✶ 80	1			
4	M22 J67 307	THERMISTOR-EVA(X)	1		⚠	
5	M22 J90 630	COOLER ✶ 100P(X)	1		⚠	
6	M22 J90 620	CONDENSER ✶ 100P(X)			⚠	
7	————	CLIP	1			
8	M22 J16 018	TERMINAL COVER	1			
9	M22 J16 923	PACKING	1			
10	M22 J90 820	COMP ✶ YB460VTE	1		⚠	
11	————	PIPE IN COOL ✶ P(X)	1			
12	M22 J67 653	JOINT	1		⚠	
13	————	PIPE IN CON ✶ 140P(X)	1			
14	————	CHARGE PIPE ✶ P(X)	1			
15	————	PIPE D-J ✶ P(X)	1			
16	————	PIPE SV-C.T ✶ P(X)	1			
17	————	PIPE C.T ✶ 100P(X)	1			
18	————	PIPE OUT CON ✶ P(X)	1			
19	————	ACCUMULATOR ✶ LK(X)	1			
20	————	PIPEA-S ✶ P(X)	1			
21	————	PIPE OUT COOL ✶ P(X)	1			
22	M22 J90 654	PIPE DIS ✶ 140P(X) ✶ ASSY	1			
23	M22 J90 645	PIPE SUC ✶ 140P(X) ✶ ASSY	1			
24	————	PIPE COVER	1			
A	————	SCRE SEMS M4 ×0.7×6	1			SCRE SEMS M4×0.7×6

10. Troubleshooting

The unit won't start

- Is the power plug not disconnected?
- Is the Tank Full lamp not on?
- Is the drainage tank installed properly?
- Is the unit not defrosting? (The unit will restart when the defrosting session completes.)
- Is the unit not in the child lock mode? (Exit the child lock mode.)

The unit won't dehumidify

- Is the air filter not clogged?
- Is the unit not defrosting?

The unit won't blow air

- Is the air filter not clogged?
- Is the unit not defrosting?

Noisy operation

- Is the unit not improperly installed? (I this titled or unsteady.)
- Is the air filter not clogged?

Operating noise turns up abruptly

- The operating noise turns up when the compressor starts running (3 minutes after the power switch is turned on or when the unit is running is auto mode).

The humidity setting is hardly reached

- Is the room not too spacious?
- Are windows or doors not opened or closed too often?
- Is any source of steam, such as an oil heater, not used?

Low or no humidifying

- This may happen when the room temperature or humidity is low. (In winter, when the air is dry, humidity decreases, and dehumidification is almost impossible.)

Air is smelly at the beginning of operation

- This may happen momentarily as the heat exchanger heats up rapidly.

Chattering

- The unit may chatter when it is used on a wooden floor or in a cramped room.

The unit sounds rumbling or other strange noises when starting or changing modes

- The coolant may sound until its circulation stabilizes.

Liquids or white traces of evaporation in the drainage tank

- This is water left over from a factory dehumidification test or signs of its evaporation, and is not a malfunction.

The compressor won’t start

- The compressor remains idle to protect itself for 3 minutes after the operation switch is turned off and then power plug is inserted into the receptacle.
- The compressor won’t also start when the room humidity is lower than the humidity setting for auto-dehumidification.

Warm air is delivered

- As the reheater heats the air that has been dehumidified by cooling, the unit delivers warm air. (The unit itself does not have a cooling capability.)

The unit won’t dehumidify, blow air or move the louver (swing ON) (E16PX only)

- Is the unit not defrosting?
  The unit will restart when the defrosting session completes.
- Is the unit not auto-dehumidifying?
  The unit stops running when the current relative humidity gets 6% or more lower than the humidity setting.
- Is the unit not guarding against mold.

The louver won’t move as set

- Press the swing louver switch again.

Airflow noise varies in level

- Airflow noise varies in level with the louver angle.

[MJ-E16P-S1, E1]

The 4 operation lamps light (continuous dehumidification, HIGH (LAUNDRY)/LOW, LOW TEMP, AIR PURIFIER)

- Is the power plug firmly inserted into the receptacle?

All the timer lamps (3) light

- Is the air outlet not blocked?
- Is the air filter not clogged?

[MJ-E16PX-S1, E1]

A2 is displayed

- Is the power plug firmly inserted into the receptacle?

P4 is displayed

- Is any object not placed on the louvre or is the louvre not closed?

E0~E8, A1, A6 is displayed

- Failure

Precautions

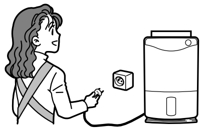
Illustration shows MJ-E16P-S1

Meaning of the graphic symbols used in this manual and on the unit is explained below.

Forbidden	Do not disassemble	Always follow the instructions
Keep away from fire	Do not subj ect to water	

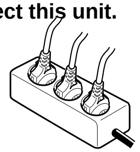
WARNING Mishandling may result in fatal or serious inj uries.

Do not start or stop the unit by plugging and unplugging the power cord.



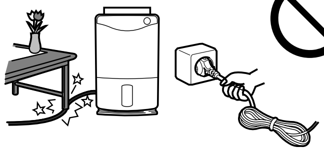
This may result in **fire and/or electric shock**.

Do not use any relay connections, extension cords, or adapters to connect this unit.



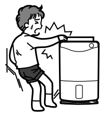
This may result in **fire and/or electric shock**.

Do not damage or modify the power cord.



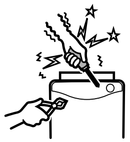
Do not place heavy objects on the power cord, apply heat to it, or stretch it, as this can damage the cord and result in **fire and/or electric shock**.

Do not put your fingers or any long obj ect, into the air outlet and inlet. Do not touch the louver.



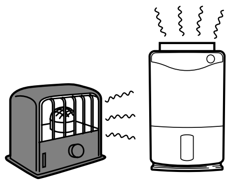
The internal fan rotates at a high speed, and thus such an action may result in an **inj ury or malfunction**

Do not attempt to repair, take apart, or modify the unit.



It may result in **fire and/or electric shock**. Refer servicing to your dealer or Mitsubishi Electric Repair Service Station.

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



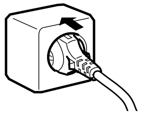
The plastic parts may melt **causing fire**.

WARNING

Use 220-240V AC power points that can withstand more than 10A current.

Connecting to power points other than 220-240V AC may result in **fire and/or electric shock**.

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

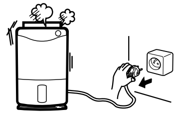


If the plug is not fully inserted in the socket, dust may gather on the connectors which in turn may cause **fire and/or electric shock**.

Remove water that has collected in the tank.

Accidental drinking of the water or using it for other purposes may cause **illness and/or unforeseen accidents**.

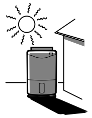
Should a malfunction occur (a smell of burning, etc.), switch off the unit and unplug it from the socket.



Continuing to operate a malfunctioning unit may result in **fire, electric shock, and further malfunction**. Contact your dealer or Mitsubishi Electric Repair Service Station for consultation.

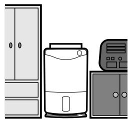
CAUTION Mishandling may result in inj uries or damage to your property, e.g. your room, equipment, etc.

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



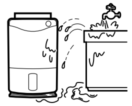
This may cause **overheating, electric shock and/or fire by short-circuiting, or plastic discolouration**.

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 is likely to come in contact with water.



Exposure to water may result in **fire or electric shock** caused by a leak of electricity.

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

Such a leakage around the unit may cause combustion and fire.

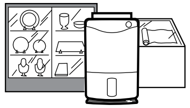
Do not use the unit in places subj ect to chemicals (in hospitals, factories, laboratories, beauty salons, etc.).

Drugs and solvents evaporated in the air may negatively affect the unit and cause the tank water to leak.

Precautions

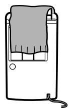
⚠ CAUTION

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



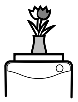
This may deteriorate **the quality of the items stored**.

Do not cover the air inlet and the air outlet on the back of the unit with cloth, curtain, etc.



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

Do not put flower vases or any other objects filled with water on the dehumidifier.



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

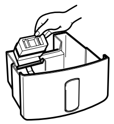
Do not sit or stand on the unit.

The unit which stands on castors may move and fall over, **resulting in an injury**

Do not wash the unit with water.

It may cause **an electric shock**.

Do not remove the Styrofoam from the floating element.



The floating element will not be able to detect full tank resulting in water leakage which may damage **the surrounding objects (carpet, furniture, etc.)** cause **electric shock and/or leakage of electricity**.

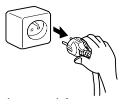
Do not drain water continuously if there is a possibility that temperature around the hose could drop to freezing point.

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

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

If the unit falls over, the water collected in the drainage tank may leak thus damaging surrounding objects (carpet, furniture, etc.) and in turn result in **fire or electric shock** caused by a leak of electricity.

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



When on, the internal fan rotates at a high speed and may cause **an injury**

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

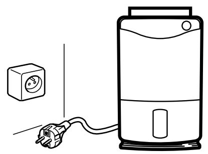
Moving the unit with water in its tank may cause the water to leak and damage **the surrounding objects (carpet, furniture, etc.) and in turn result in electric shock and/or a leak of electricity.**

⚠ CAUTION

Before moving the unit, empty the drainage tank, then firmly grasp the handle and move the unit on its castors.

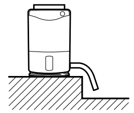
Otherwise the unit may fall over and cause **an injury or damage the floor**.

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



Otherwise it may cause **fire or electric shock**.

In case of continuous drainage make sure to set the hose so that the water is drained without obstruction.



The water in the tank may leak and damage **the surrounding objects (carpet, furniture, etc.)**

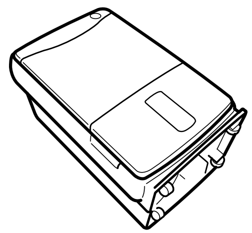
When using the unit after it has been stored for an extended period of time or when draining water continuously with no assistance, inspect fortnightly.

If there are foreign objects in thehose, it may **result in a water leakage and/or heat generation.**

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

Warning

Keep the unit in upright position only.



nclining the unit may cause water in the tank leak into the unit **resulting in malfunction**. Should you incline the unit accidentally, contact your nearest dealer in order to discuss the matter.

Do not carry the unit horizontally.

It may **result in malfunction.**

MITSUBISHI ELECTRIC CORPORATION
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Issued in 2001.9 Printed in Japan