

Functions; Explanation Of Functions;
Functions 7-1. Explanation Of
Functions - Sanyo SAP-CMRV3656EH
Technical & Service Manual

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7. FUNCTIONS

7-1. Explanation of Functions

Control/conditions

INITIAL

Breaker is ON.

The ON/OFF operation button on the remote controller is pressed.

HEAT

The ON/OFF operation button on the remote controller is pressed.



The room temperature has reached the desired temperature.

The thermostat turns OFF.

The indoor and outdoor temperatures are high.

The thermostat turns ON.

Unit operation

If automatic operation mode has been selected with the remote controller, operation begins in HEAT, SENSOR DRY, or COOL mode depending on the room temperature and outdoor temperature at the time operation starts.

Depending on the operational mode, refer to the HEAT, SENSOR DRY, or COOL item.

Operation lamp illuminates.

Indoor fan is stopped to prevent cold air from being emitted.

Outdoor unit begins operating after forced-stop is canceled.

the compressor starts.

the outdoor fan starts.

When the indoor coil temperature rises, the indoor fan changes from "LL" to the set fan speed.

When the frequency reaches increases are stopped for a period of (Refer to Table 2 "Frequency control".)

The frequency then increases.

The indoor temperature and the remote controller temperature setting are approximately equal.

The indoor fan is stopped.

In order to protect the compressor, the outdoor unit will not operate for 5 minutes after the thermostat turns OFF, even if the room temperature drops below the desired temperature.

The frequency is not increased, even if there is a difference between the room temperature and the desired temperature.

In some cases, the frequency may be decreased.



The indoor fan is started.

Power is supplied to the indoor and outdoor unit control circuits, however the unit remains stopped.

Positioning of the outdoor unit electric expansion valve is performed.





This applies in the case of automatic HEAT/COOL operation.

The unit is forced to stop for 5 minutes after the power is turned ON, or 5 minutes after the compressor stops, in order to protect the compressor.

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The frequency is increased at the rate of 1 Hz every 0.5 seconds.
 Depending on the relationship between the remote controller temperature setting and the room temperature, the compressor may stop temporarily (in other words, the thermostat may turn OFF).

Hz, frequency

<p>This is in order to stabilize the return of oil to the seconds.</p>			
<p>compressor. If the indoor and outdoor temperatures are high, the current peak cut-off activates, stopping any increases in frequency.</p>			
<p>Operating frequency is stabilized in order to maintain a comfortable environment. The outdoor unit stops. (It does not stop if the thermostat for another indoor unit is ON.) Approximately 30 seconds after the thermostat turns OFF, the indoor fan is stopped. The outdoor unit starts automatically after 5 minutes. During these 5 minutes, a low-pressure pressure balance is achieved, allowing the compressor to start more easily.</p>			
<p>The amount of heat pump exceeds the amount of heat radiation from the room. Therefore, there is no need to further increase the compressor capacity, and the frequency is stabilized or lowered. The unit operated before, and the temperature of the indoor heat exchanger is relatively warm.</p>	<ul style="list-style-type: none"> ● ● ● — — 		
<p>Therefore, the fan speed may start at the set fan speed at the same time that the thermostat turns ON.</p>			
<p>18</p>			
<p>Explanation</p>			

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