

Reverse Cycle Starting Control;
Outdoor Fan Control; Way Valve
Switching Control; Save Valve
Control - Sanyo SPW-CR363GVH8
Service Manual

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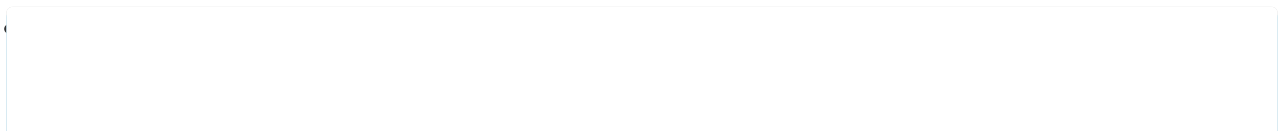
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3. Reverse Cycle Starting Control

At the start of heating operation, the cooling cycle operates for 50 seconds. During this time, the outdoor and indoor fans are stopped.

Reverse-Cycle start conditions:

- (1) When starting heating operation after 60 minutes of stop operation
- (2) When starting heating operation for the first time after turning on the power
- (3) Reverse-cycle start control details

After 50 seconds of reverse-cycle (cooling) operation, the outdoor unit stops for 20 seconds, then starts normal operation.

Control sections

P/C compressor

AC compressor

4-way valve

Outdoor fan

- Low-pressure valve 1, 2, 3
- High-pressure valve
- Save valve
- Outdoor electronic control valve

4. Outdoor Fan Control

(1) Outdoor fan mode

Mode

Fan

3

H

2

M

1

L

0

STOP

(2) Initial control

For the first 30 seconds after operation starts, outdoor fans are controlled according to the outdoor temperature as shown below.

When the fans are started, they rotate at high speed for 12 seconds.

Cooling

Outdoor temperature

16

H (M)

0

H (M, L)

L (STOP)

* The outdoor fans rotate at the mode in the parentheses (

(3) The fan mode is then switched up or down according to the operating conditions.

5. 4-way Valve Switching Control

(1) In normal operation, the 4-way valve is off for cooling and on for heating.

(2) When the outdoor unit is stopped while in heating mode, 60 minutes elapse and the 4-way valve goes OFF. (Energy saving)

6. Save Valve Control

(1) The save valve is switched on according to the tables shown in Section 1. "Compressor Control."

(2) The save valve is on when the outdoor unit is stopped. (This is due to pressure balance.)

Operation of each control section when heating operation starts

Reverse-cycle operation time

50 seconds

Compressor capacity control

↑

OFF

STOP

Compressor capacity control

↑

↑	↑
—	—
—	—

Save valve control

480 pulses

Heating

Outdoor temperature

21

H (M · L · STOP)

16

H (M · L)

H (M)

) according to the operating capacity.

II - 7

Processes and Functions

Stop time

20 seconds

OFF

OFF

ON

H

ON

OFF

ON

0 pulses

SM830063

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