

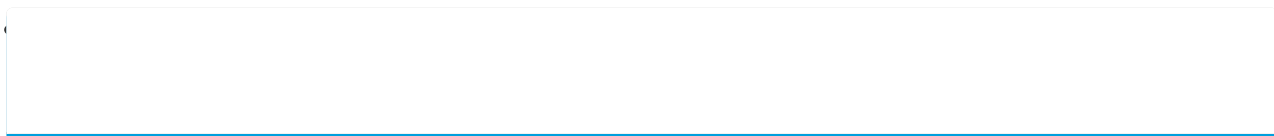
Electronic Refrigerant Control Valve; Compressor Discharge Gas Temperature; (A) Cooling; (B) Heating (Except During Defrosting) - Sanyo SPW-X253GH56 Service Manual

Split system

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2-13 Electronic Refrigerant Control Valve

This valve allows very precise and smooth control of the amount of refrigerant flow in the system. Since the valve is operated by a step motor, the control circuits can open or close it in very exact amounts, so the degree of heating or cooling can be changed by just a little, or changed very quickly or slowly.

(Completely close 0 step)

(Full open 480 step)

Model

25 type

36 type

48 type

Fuzzy Control

Fuzzy Control is a controlling system to control electronic refrigerant control valve

using fuzzy logic. It regulates the functions of heating and cooling, as well as some of the processes inside the unit, by taking account of many different conditions of temperature, fan speed, etc. These control circuits work automatically to send just the right amount of refrigerant through the Electronic Refrigerant Control Valve.

2-14 Compressor Discharge Gas Temperature

(A) Cooling

Indoor temp. (°C)
 Outdoor temp. (°C)
 Compressor discharge gas temp. (°C)

(B) Heating (Except During Defrosting)

Indoor temp. (°C)
 Outdoor temp. (°C)
 Compressor discharge gas temp. (°C)

Operate the unit at least 30 minutes to stabilize the discharge temperature.
 The above discharge temperature was measured with a 15m tubing length.
 The temperature may vary with tubing length.

Min. open
 HEAT

100 step
 120 step
 90 step
 100 step
 110 step
 20 - 25
 13 or below
 14 - 16
 40 - 80
 40 - 90
 18 - 21
 0 or below
 1 - 10
 0 or below
 40 - 80
 50 - 90
 40 - 90
 - 39 -

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2. Processes and functions

Max. open

COOL

90 step
 480 step
 26 - 28
 27 - 35
 60 - 100
 22 - 25
 1 - 10

11 - 21 0 or below

50 - 100 60 - 105 50 - 90

29 - 32

36 - 43

70 - 105

26 - 30

1 - 10

11 - 21

60 - 100 70 - 105

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[General Troubleshooting Flow Chart: Diagnosis and Remedy 60](#)

Related Manuals for Sanyo SPW-X253GH56

[Air Conditioner Sanyo SPW-X483GH56 Installation Instruction](#)

Eco multi system air conditioner (91 pages)

[Air Conditioner Sanyo SPW-U253GH56 Service Manual](#)

Split system air conditioner (108 pages)

[Air Conditioner Sanyo SPW-D253GH56 Service Manual](#)

Split system (108 pages)

[Air Conditioner Sanyo SPW-T253GH56 Service Manual](#)

Split system (106 pages)

[Air Conditioner Sanyo SPW-C256VH Technical Data & Service Manual](#)

4-way air discharge semi-concealed wall-mounted ceiling-mounted concealed-duct (517 pages)

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W-eco multi system series (377 pages)

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Control Valve

Sanyo ECO-i 3-WAY MULTI SYSTEM

[SPW-C483GYH8 Indoor Electronic Control Valve](#)

Sanyo SPW-C483GYH8

[CHDXR09663* Indoor Unit Control Of The Electronic Control Valve](#)

Sanyo CHDXR09663*

[XHS3632 Electronic Expansion Valve Control](#)

Sanyo XHS3632

[SPW-CR1503GDYH8 Outdoor Electronic Expansion Valve](#)

Sanyo SPW-CR1503GDYH8

[ECO R410A External Electronic Expansion Valve Kit \(Atk-Svrk56Ba\)](#)

Sanyo ECO R410A

[XS3632 Refrigerant Flow Diagram.18](#)

Sanyo XS3632

[KHS3632 / CH3632 Electronic Refrigerant Control Valve Control](#)

Sanyo KHS3632 / CH3632

This manual is also suitable for:

[Spw-c253gh5Spw-c253gh8Spw-x363gh56Spw-c363gh8Spw-x483gh56Spw-c483gh8](#)