

Heating High-Load Prevention Control; Cooling Freeze Prevention Control - Sanyo SPW-C256VH Technical Data & Service Manual

4-way air discharge semi-concealed wall-mounted ceiling-mounted concealed-duct

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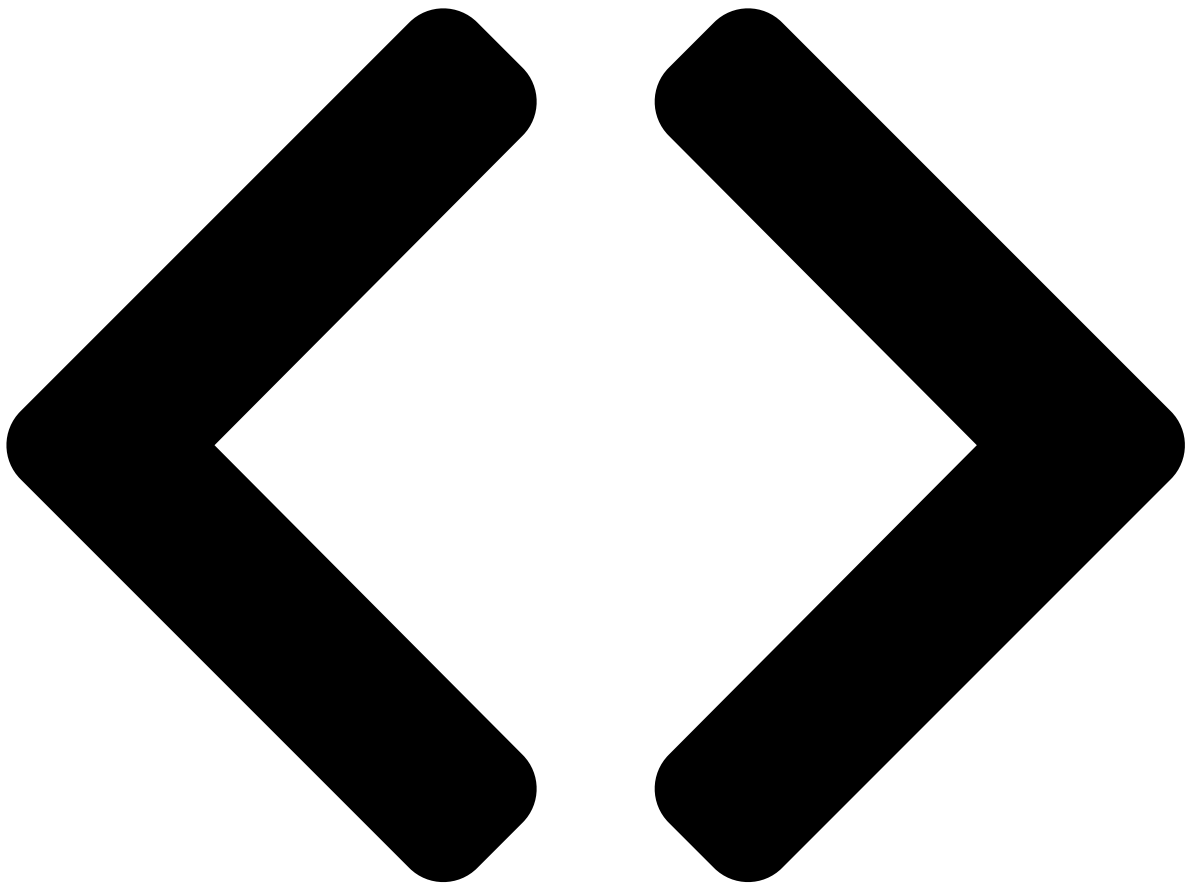
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5) Heating High-Load Prevention Control

This system controls the inverter frequency when the high pressure's abnormal increase and high-load operating prevention occur in the heating mode.

In accordance with the temperature of the indoor heat exchanger temperatures sensor (E1, E2), such controls are performed as to limiting the increase of inverter frequency, decreasing it or halting operation of the compressor. When the maximum temperatures (E1, E2) exceeds 64 , the outdoor unit operation is halted and restarted after 3 minutes.

max. (E1, E2) °C

a
b
c



6) Cooling Freeze Prevention Control

The following control is performed during cooling operations (including dehumidifying operation), in accordance with whichever of the indoor heat exchanger temperatures (E1 or E2) is lower. (See the chart below.)

(1) If the temperature remains in the "J" zone (decreasing operation frequency and thermostat OFF zone) for 6 minutes, the operating frequency of the compressor is decreased. The operation frequency is amended every 30 seconds as long as the temperature is in this zone.

(2) If the temperature is in the "K" zone (operating frequency increase prevention zone), the operating frequency of the compressor is maintained.

(3) If the temperature is in the "H" zone (operating frequency restriction zone) and the outdoor air temperature is less than 32 , the maximum operating frequency of the compressor is limited in accordance with the indoor unit fan speed.

(4) If the temperature is in the "I" zone (normal operation zone), normal operations are performed.

(5) If the temperature is continuously in the "J" zone with the compressor's operating frequency reaches "0", then temperature A, which is temperature for changing from the "J" zone to the "H" zone, is raised from 5 to 8 , and operation continues with the thermostat off until the temperature enters the "H" zone.

E2)

unit operations halted
frequency decreased
Frequency increases prevented
Normal operations (no control)

I
H
A
K (operating frequency increase prevention zone)
J

<Single-phase>

Type °C °C
256

a

64

b

55

c

51

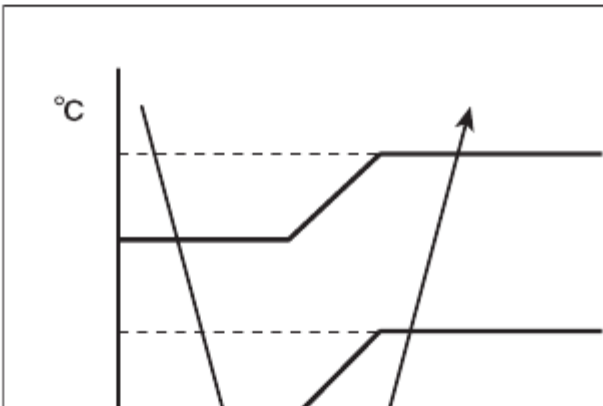
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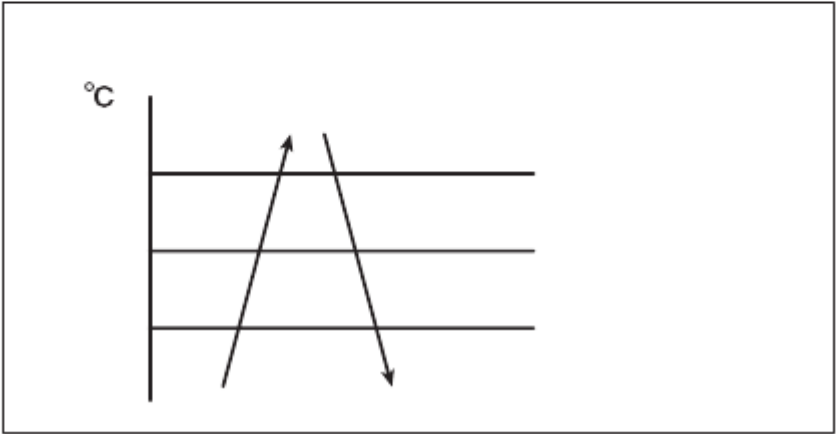
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a

65



b
56
c
52
4-4
366
486
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