

Other Controls - Sanyo CHDXR09663* Service Manual

2-way eco-i multi system

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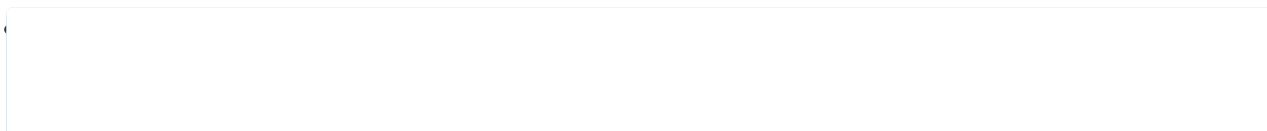
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Bookmarks



5. Other Controls

5-1. Oil Control

5-1-1. Oil level

Oil level

2

Sufficient

Low
Very low
Immediately after the oil level changes from 2 to 1, there is a specified amount of oil in the
sor.
soon after the oil level is changed to 1, the oil in the compressor is not empty. If the oil level "0" indication
continues for more than 5 to 10 minutes, it seems short of oil in the system. Check for any oil leakage as well as

the refrigerant tubing.

5-1-2. Oil level detection

Excess oil in the compressor is sent by bypass via a capillary tube to the low-pressure circuit. The temperature detected by a temperature sensor is used to determine whether it is oil (warm) or refrigerant (cold).

5-1-3. Self-separator oil recovery control

* When a low oil level is detected, this control recovers the oil which has accumulated in that oil separator and sends it to the compressor.

When the oil level is not 2, the recovery valves turn ON. After the oil level changes from 2 to 1, the recovery valves turn ON. If the oil level becomes 2, this control is stopped.

Unit refrigerant oil recovery control - utilizing balance tubes

When a low oil level continues, that outdoor unit (oil-receiving outdoor unit) receives a supply of oil from the indoor unit.

Oil supply is performed for a maximum of 5 minutes from each unit.

(1) Control at the oil-supply outdoor unit begins 3 minutes after the oil level at the outdoor unit does not become 2.

Oil supply is performed for a maximum of 5 minutes from each unit.

(2) When oil supply is ended, oil supply from that outdoor unit will not occur again for a period of [(No. of outdoor units minus 1) x 5 minutes]. In addition, oil supply is ended if the oil-receiving outdoor unit oil level changes to 2, or if the oil-supply outdoor unit oil level becomes low.

(3) The supply of oil is received from 1 unit at a time, in sequence, according to the order of priority of their inverter compressors.

(4) Operation during unit refrigerant oil recovery

(A) Oil-receiving outdoor unit

The recovery valve turns ON and remains ON.

(B) Oil-supply outdoor unit

The balance valve turns ON and remains ON.

The bypass valve repeatedly turns ON and OFF according to a constant cycle.

5-1-5. Indoor unit refrigerant oil self-recovery control

Refer to the items concerned with indoor unit special control.

Meaning

Conditions of oil

The compressor contains oil more than the oil level which is necessary and sufficient for normal operation.

The compressor contains sufficient oil but there is a possibility of shortage against the required oil level.

The compressor oil is short against the required oil level sufficient for normal operation.

There is no problem.

Confirm that oil is returned after performing the oil control operation.

Confirm that oil level is recovered to the required level after performing the oil recovery control between systems.

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W-2WAY ECO-i SYSTEM

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