

Cooling/Heating Operation - Toshiba RAS-B10SKVP-E Service Manual

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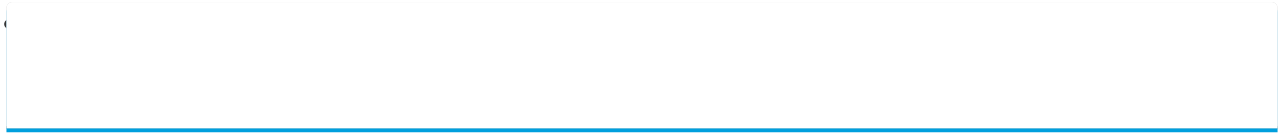
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operation

3. AUTO operation

4. DRY operation

More user manuals on

Operation flow and applicable data, etc.

The operations are performed in the following parts by controls according to cooling/heating conditions.

1) Receiving the operation ON signal of the remote controller, the cooling or heating operation signal starts being transferred from the indoor controller to the outdoor unit.

2) At the indoor unit side, the indoor fan is operated according to the contents of "2. Indoor fan motor control" and the louver according to the contents of "9. Louver control", respectively.

3) The outdoor unit controls the outdoor fan motor, compressor, pulse motor valve and

4-way valve according to the operation signal sent from the indoor unit.

Operation ON

Indoor unit control

Sending of operation command signal

Outdoor unit control

Selection of operation mode

As shown in the following figure, the operation starts by selecting automatically the status of room temperature (Ta) when starting AUTO operation.

*1. When reselecting the operation mode, the fan speed is controlled by the previous operation mode.

Ta

Cooling operation

Ts + 1

Monitoring (Fan)

Ts - 1

Heating operation

DRY operation is performed according to the difference between room temperature and the setup temperature as shown below.

In DRY operation, fan speed is controlled in order to prevent lowering of the room temperature and to avoid air flow from blowing directly to persons.

[°C]

Ta

+ 1.0

+ 0.5

Tsc

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Setup of remote controller

Indoor fan motor control / Louver control

Compressor revolution control / Outdoor fan motor control /

4-way valve control

In cooling operation: ON

[

In heating operation: OFF

Pulse motor valve control

1) Detects the room temperature (Ta) when

2) Selects an operation mode from Ta in

3) Fan operation continues until an

4) When AUTO operation has started

5) If the status of compressor-OFF

1) Detects the room temperature (Ta) when

2) Starts operation under conditions in the

3) When the room temperature is lower

L- (W5)

(W5+W3) / 2

SL (W3)

Fan speed

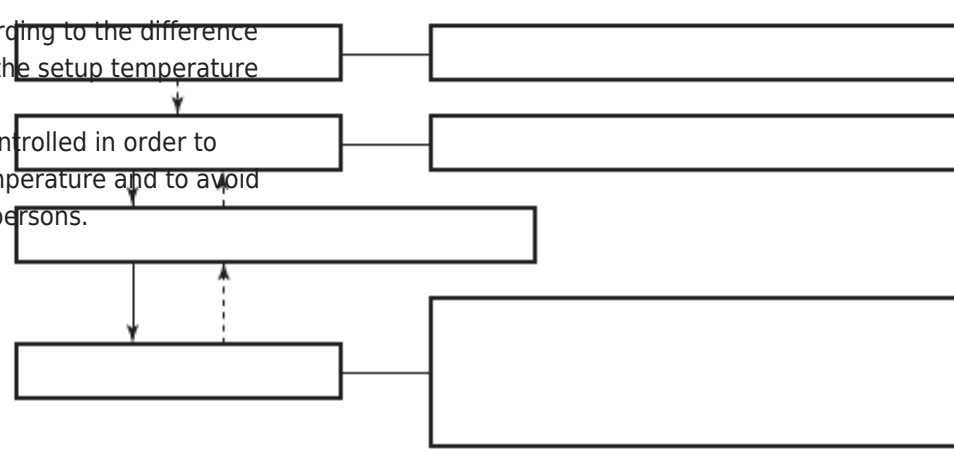
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Description

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the operation started.

the left figure.



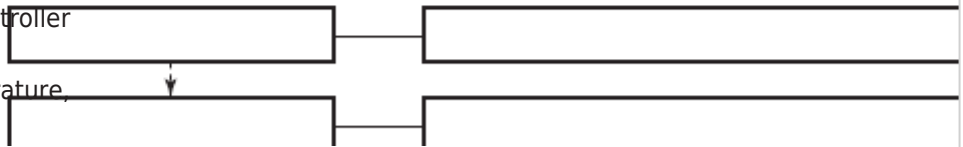
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operation mode is selected.
within 2 hours after heating operation
stopped and if the room temperature is
20°C or more, the fan operation is
performed with "Super Ultra LOW" mode
for 3 minutes.

Then, select an operation mode.
continues for 15 minutes the room
temperature after selecting an operation
mode (COOL/HEAT), reselect an
operation mode.

the DRY operation started.
left figure according to the temperature
difference between the room tempera-
ture and the setup temperature (Tsc).

Setup temperature (Tsc)
= Set temperature on remote controller
(Ts) + (0.0 to 1.0)
1°C or less than the setup temperature,
turn off the compressor.



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