

Cooling/Heating Operation; Auto Operation; Dry Operation - Toshiba RAS-B10SKVP-E Service Manual

Split type air conditioner

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Troubleshooting

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Bookmarks



Item

Operation flow and applicable data, etc.

1. Basic

2. Cooling/Heating operation

operation

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

3. AUTO operation

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
- Ts + 1
- Ts - 1

4. DRY 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

Setup of remote controller
 Indoor fan motor control / Louver control
 Compressor revolution control / Outdoor fan motor control /
 4-way valve control

Pulse motor valve control

Cooling operation
 Monitoring (Fan)
 Heating operation

- L- (W5)
- (W5+W3) / 2
- SL (W3)

Fan speed
 - 30 -

Description

In cooling operation: ON

[

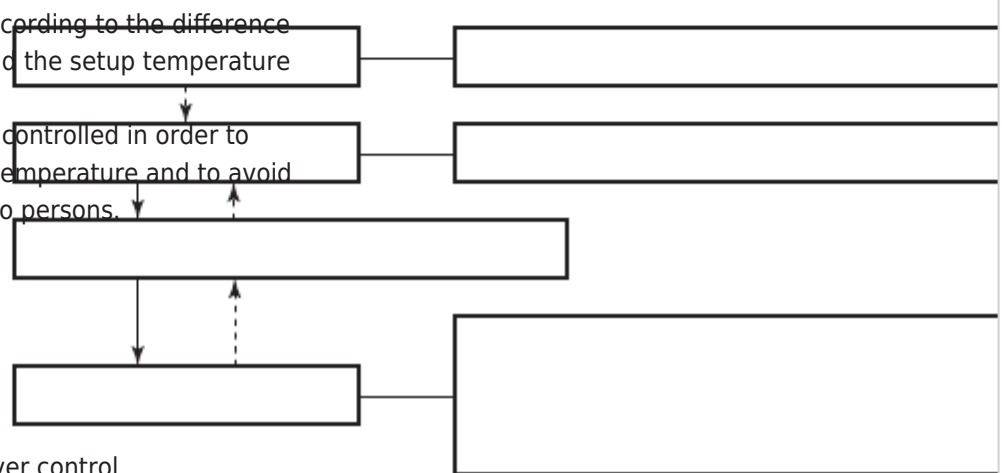
In heating operation: OFF

1) Detects the room temperature (Ta) when the operation started.

2) Selects an operation mode from Ta in the left figure.

3) Fan operation continues until an operation mode is selected.

4) When AUTO operation has started 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.

5) If the status of compressor-OFF continues for 15 minutes the room temperature after selecting an operation mode (COOL/HEAT), reselect an operation mode.

1) Detects the room temperature (T_a) when the DRY operation started.

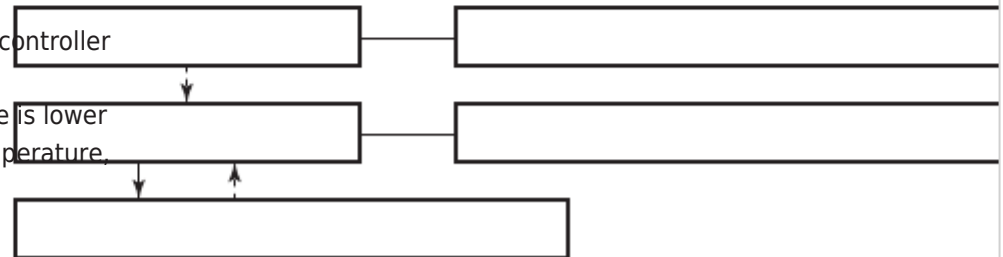
2) Starts operation under conditions in the left figure according to the temperature difference between the room temperature and the setup temperature (T_{sc}).

Setup temperature (T_{sc})

= Set temperature on remote controller (T_s) + (0.0 to 1.0)

3) When the room temperature is lower 1°C or less than the setup temperature, turn off the compressor.

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