

Basic Operation; Operation Control - Toshiba RAS-13SKV-E Service Manual

Indoor/outdoor unit, split type air conditioner

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Troubleshooting

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Item

1. Basic

1. Operation control

operation

Receiving the user's operation condition setup, the operation statuses of indoor/outdoor units are controlled.

- 1) The operation conditions are selected by the remote controller as shown in the below.
- 2) A signal is sent by ON button of the remote controller.
- 3) The signal is received by a sensor of the indoor unit and processed by the indoor controllers as shown in the below.
- 4) The indoor controller controls the indoor fan motor and louver motor.
- 5) The indoor controller sends the operation command to the outdoor controller, and sends/receives the control status with a serial signal.
- 6) The outdoor controller controls the operation as shown in the left, and also controls the compres-

sensor, outdoor fan motor, 4-way valve and pulse Modulating valve.

Selection of operation conditions

ON/OFF		
Signal receiving		
Indoor unit control		
Operation command		
Serial signal send/receive		
Serial signal send/receive		
Outdoor unit control		
Operation flow and applicable data, etc.		
Remote controller		
Control contents of remote controller		
<ul style="list-style-type: none"> • ON/OFF (Air conditioner/Air purifier) • Operation select (COOL/HEAT/AUTO/DRY) • Temperature setup • Air direction • Swing • Air volume select (AUTO/LOW/LOW+/MED/MED+/HIGH) • ECO • ON timer setup • OFF timer setup • High power 		

Indoor unit		
Indoor unit control		
<ul style="list-style-type: none"> • Command signal generating function of indoor unit operation • Calculation function (temperature calculation) • Activation compensation function of indoor fan • Cold draft preventive function • Timer function • Indoor heat exchanger release control 		
Outdoor unit		
Outdoor unit control		
<ul style="list-style-type: none"> • Frequency control of inverter output • Waveform composite function • Calculation function 		

(Temperature calculation)		
<ul style="list-style-type: none"> • AD conversion function • Quick heating function • Delay function of compressor reactivation • Current release function • GTr over-current preventive function • Defrost operation function • COMFORT SLEEP • QUIET • PRESET • ONE-TOUCH 		

Inverter		
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Description

- Indoor fan motor
- Louver motor

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- Compressor
- Outdoor fan motor
- 4-way valve
- Pulse Modulating valve
(P.M.V.)

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[RAS-B22PKVSG-TR Basic Operation](#)

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[RAS-10S3AV-E Basic Operation](#)

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