SIEMENS 3015





RAB11.1

Room thermostats

RAB11..

For 2-pipe fan coils

- Room thermostat with manual switch for heating or cooling mode and fan function
- 2-position control
- Manual 3-speed fan switch
- Switching voltage AC 24...250 V
- Control output ON/OFF

Use

The RAB11.. room thermostat is used in heating or cooling systems to maintain the selected room temperature.

Typical use:

- Commercial buildings
- Residential buildings
- Light industrial buildings

In conjunction with

- zone valves
- thermal valves
- fans

Functions

Heating

If the room temperature falls below the selected setpoint, the thermostat's heating contact will close.

Cooling

If the room temperature exceeds the selected setpoint, the thermostat's cooling contact will close.

Fan speed

There are 2 possibilities to control the fan speed:

- a) Manually by means of the thermostat's 3-speed fan switch for continuous operation (RAB11 and RAB11.1).
- b) Automatically by switching to the selected fan speed via the thermostat for controlled operation. In that case prior to commissioning the jumper position corresponding to the thermostat function must be selected. There are 2 choices of jumper positions available on the printed circuit boards of the RAB11 and RAB11.1.

Jumper SR1 & Selected fan speed as continuous operation

Jumper SR2 & Auto Fan is switched at the same time as the valve

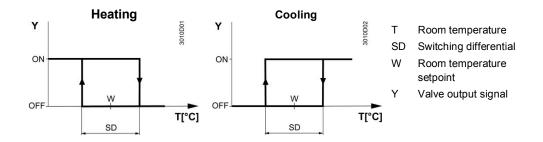
Ventilation

When the ventilation function & is selected (RAB11.1) with the slide switch on the unit front, the heating and cooling contacts are always open and the fan operates at the selected speed.

Changeover

Heating or cooling mode is selected with the switch located on the unit front (RAB11...).

Function diagrams



Type summary

2-pipe fan coil room thermostat for use with 3-speed fan, manual changeover

2-pipe fan coil room thermostat for use with 3-speed fan, manual RAB11.1 changeover and ventilation function

Equipment combinations

Type of unit	Product no. (ASN)	Data sheet*)
Motoric on/off actuator	SFA21	4863
Thermal actuator (for radiator valves)	STA21	4893
Thermal actuator (for small valves 2.5 mm)	STP21	4878
Electromotoric actuator for zone valve VVI46	SUA21	4830
(2-position on/off)		

^{*)} The documents can be downloaded from http://siemens.com/bt/download.

Accessories

Type of unit	Product no. (ASN)
Adapter plate 120 x 120 mm for 4 x 4" conduit boxes	ARG70
Adapter plate 96 x 120 mm for 2 x 4" conduit boxes	ARG70.1
Adapter plate for surface wiring 112 x 130 mm	ARG70.2

2/6

RAB11

Key features of the RAB11.. fan coil room thermostat:

- 2-position control
- · Gas-filled diaphragm

Adjustments

The required temperature setpoint is selected with the setting knob on the front of the thermostat.

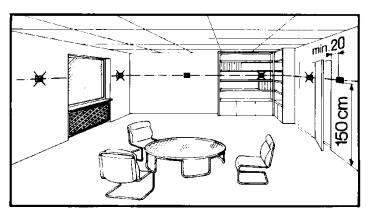
The setpoint setting range can be mechanically limited by means of a setpoint limiter under the unit cover.

Note

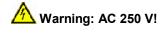
Mounting, installation and commissioning

The thermostat should be located where the room temperature can be acquired as accurately as possible, without getting adversely affected by direct solar radiation or other heat or refrigeration sources.

Mounting height is about 1.5 m above the floor.



The thermostat can be fitted to most commercially available recessed conduit boxes or directly on the wall.



Only authorized personnel may open the unit to perform service

The unit must be isolated from the mains supply before opening.

When installing the unit, fix the base plate first, then hook on the thermostat body and make the electrical connections. Then, fit the cover and secure it (also refer to separate mounting instructions).

The thermostat must be mounted on a flat wall.

The local electrical regulations must be complied with.

If there are thermostatic radiator valves in the reference room, set them to their fully open position.



Warning!

No internal line protection for supply lines to external consumers (Q1, Q2, Q3, Y) $\,$

Risk of fire and injury due to short-circuits!

 Adapt the line diameters as per local regulations to the rated value of the installed overcurrent protection device.

Maintenance Mechanical design

The room thermostat is maintenance-free.

The diaphragm is filled with environmentally friendly gas.

The housing is made of plastic.

Type (ASN)	Part number (SSN)	Description
RAB11	S55700-T225	Room thermostat RAB11
RAB11.1	S55700-T226	Room thermostat RAB11.1

Disposal



The devices are considered electronics devices for disposal in term of European Directive 2012/19/EU and may not be disposed of as domestic waste.

- Dispose of the device via the channels provided for this purpose
- Comply with all local and currently applicable laws and regulations.

Technical data







No internal fuse

External preliminary protection with max. C 10 A circuit breaker in the supply line required under all circumstances

Screw terminals for	2 x 1.5 mm ² (min. 0.5 mm ²)	
Switching differential SD	≤1 K	
Setpoint setting range	830 °C	
Operation Climatic conditions Temperature Humidity Pollution degree	to IEC 60721-3-3 Class 3K5 050 °C <95 % r.h. normal, to EN 60730-1	
Transport / Storage Climatic conditions Temperature Humidity Mechanical conditions	to IEC 60721-3-2 Class 2K3/1K3 -2050 °C <95 % r.h. Class 2M2	
EU Conformity (CE)	CE1T3015xx *)	
RCM Conformity	CE1T3015en_C1 *)	
Safety standard Degree of protection of housing	II to EN 60730-1 IP30 to EN 60529	
The product environmental declaration CE1E3	015 ^{*)} contains data on environmentally	

Environmental conditions

Operational data

EU Conformity (CE)	CE1T3015xx *)
RCM Conformity	CE1T3015en_C1 *)
Safety standard	II to EN 60730-1
Degree of protection of housing	IP30 to EN 60529
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Environmental compatibility

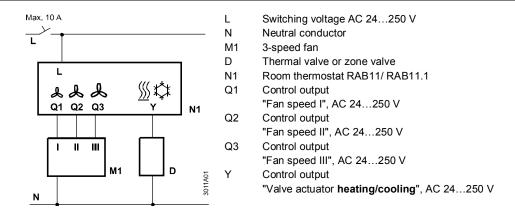
Industry standards

Mechanical design

compatible product design and assessments (RoHS compliance, materials composition, packaging, environmental benefit, disposal).

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Weight	0.14 kg
Colour	white, NCS S 0502-G (RAL 9003)

^{*)} The documents can be downloaded from http://siemens.com/bt/download.



Dimensions

Room thermostat Base plate

Remark

Heating:

Because of the unavoidable self heating effects of the electrical current, any loads of more than 3 Amperes connected to the unit can influence the control behavior and temperature accuracy in a negative way.

Cooling:

Because of the unavoidable self heating effects of the electrical current, any loads of more than 1 Amperes connected to the unit can influence the control behavior and temperature accuracy in a negative way.

Room Thermostats RAB11..