

07 - Room thermostats

For fan coil units

Standard room thermostats: RAB..1../ RCC..

RAB..1..

Electromechanical room thermostats for fan coils

Electromechanical room temperature controllers for fan coil for heating and/or cooling applications. Manual three-speed fan control. The required room temperature is adjusted with the setpoint knob on the front of the unit.

- Gas-filled diaphragm
- 2-position control
- Color of housing front and baseplate: signal white RAL9003 (NCS S 0502-G)

Setpoint setting range	8...30 °C
Switching differential	≤1 K
Switching voltage	AC 250 V
Switching current	0.2...6 (2) A
Dimensions (W x H x D)	99 x 110 x 35.3 mm

7

RAB11



Electromechanical room thermostat for 2-pipe fan coils, selector heating/cooling

- Heating or cooling applications
- Selector for heating or cooling mode
- Selector for manual 3-speed fan operation
- Manual fan operation or automatic fan operation parallel with the valve can be configured inside the unit

Data sheet N3015

Stock No. Product No.

S55770-T225 RAB11

RAB11.1



Electromechanical room thermostat for 2-pipe fan coils, selector heating/cooling/fan only

Same functionality and technical data as RAB11. Additional selector position for ventilation (heating and cooling inactive).

Data sheet N3015

Stock No. Product No.

S55770-T226 RAB11.1

RAB21



Electromechanical room thermostat for 2-pipe fan coils, basic model

- Heating or cooling applications
- Selector for manual 3-speed fan operation
- Changeover function, heating or cooling (with external automatic aquastat)
- Manual fan operation or automatic fan operation parallel with cooling / heating mode can be configured inside the unit

Data sheet N3016

Stock No. Product No.

S55770-T227 RAB21

Electromechanical room thermostat for 2-pipe fan coils, selector heating-cooling/fan only

RAB21.1

Same functionality and technical data as RAB21. Additional selector for changeover between heating / cooling and ventilation.

Data sheet N3016



Stock No.

Product No.

S55770-T228

RAB21.1

Electromechanical room thermostat for 4-pipe fan coils, selector heating-cooling

RAB31

- Heating or cooling applications
- Selector for heating or cooling mode
- Selector for 3-speed fan operation
- Manual fan operation or automatic fan operation parallel with heating / cooling mode (depending on the selector's position) can be configured inside the unit

Data sheet N3017



Stock No.

Product No.

S55770-T229

RAB31

Electromechanical room thermostat for 4-pipe fan coils, selector heating-cooling/fan only

RAB31.1

Same functionality and technical data as RAB31. Additional selector position for ventilation (heating and cooling inactive).

Data sheet N3017



Stock No.

Product No.

S55770-T230

RAB31.1

Fan speed switch, 3-stage

RAB91

Selector for 3-speed fan operation

Data sheet N3018

Switching voltage AC 24...250 V



Stock No.

Product No.

S55770-T231

RAB91

NEW PRODUCT

07 - Room thermostats

For fan coil units

Standard room thermostats: RAB..1../ RCC..

RAB..

Electromechanical room thermostats for fan coils

Electromechanical room temperature controllers for fan coil for heating and/or cooling applications. Manual three-speed fan control. The required room temperature is adjusted with the setpoint knob on the front of the unit.

- Gas-filled diaphragm
- 2-position control
- Color of housing front: signal white RAL9003 (NCS S 0502-G)
- Color of baseplate: light grey RAL7035 (NCS 2801-Y43R)

Setpoint setting range	8...30 °C
Switching differential	1 K
Relay output, switching voltage	AC 250 V
Relay output, switching current	0.2...6 (2) A
Dimensions (W x H x D)	97 x 113 x 43 mm

7

RAB10

Electromechanical room thermostat for 2-pipe fan coils, selector heating/cooling

- Heating or cooling applications
- Selector for heating or cooling mode
- Selector for manual 3-speed fan operation
- Manual fan operation or automatic fan operation parallel with the valve can be configured inside the unit

Data sheet N3011



Stock No. Product No.

BPZ:RAB10 RAB10

RAB10.1

Electromechanical room thermostat for 2-pipe fan coils, selector heating/cooling/fan only

Same functionality and technical data as RAB10. Additional selector position for ventilation (heating and cooling inactive).

Data sheet N3011



Stock No. Product No.

BPZ:RAB10.1 RAB10.1

RAB10.2

Electromechanical room thermostat for 2-pipe fan coils, selector heating/cooling, fan release externally

Same functionality and technical data as RAB10. Additional selector position for ventilation (heating and cooling inactive) and externally fan release.

Data sheet N3010



Stock No. Product No.

BPZ:RAB10.2 RAB10.2

Electromechanical room thermostat for 2-pipe fan coils, basic model**RAB20**

- Heating or cooling applications
- Selector for manual 3-speed fan operation
- Changeover function, heating or cooling (with external automatic aquastat)
- Manual fan operation or automatic fan operation parallel with cooling / heating mode can be configured inside the unit

Data sheet N3012



Stock No.

Product No.

BPZ:RAB20

RAB20**Electromechanical room thermostat for 2-pipe fan coils, selector heating-cooling/fan only****RAB20.1**

Same functionality and technical data as RAB20. Additional selector for changeover between heating / cooling and ventilation.

Data sheet N3012



Stock No.

Product No.

BPZ:RAB20.1

RAB20.1**Electromechanical room thermostat for 4-pipe fan coils, selector heating/cooling****RAB30**

- Heating or cooling applications
- Selector for heating or cooling mode
- Selector for 3-speed fan operation
- Manual fan operation or automatic fan operation parallel with heating / cooling mode (depending on the selector's position) can be configured inside the unit

Data sheet N3013



Stock No.

Product No.

BPZ:RAB30

RAB30**Electromechanical room thermostat for 4-pipe fan coils, selector heating/cooling/fan only****RAB30.1**

Same functionality and technical data as RAB30. Additional selector position for ventilation (heating and cooling inactive).

Data sheet N3013



Stock No.

Product No.

BPZ:RAB30.1

RAB30.1

07 - Room thermostats

For fan coil units

Standard room thermostats: RAB..1../ RCC..

RAB40.1



Electromechanical room thermostat for 2-pipe fan coils, selector cooling/fan/off

- On / off output for cooling
- Outputs for 3-speed fan
- Manual switch for cooling and fan operation, fan only operation or off
- Selector for manual 3-speed fan operation

Data sheet N3014

Stock No. Product No.

BPZ:RAB40.1 **RAB40.1**

7

RAB90



Fan speed switch, 3-stage

Selector for 3-speed fan operation

Data sheet N3019

Stock No. Product No.

BPZ:RAB90 **RAB90**

RAB90.1



Fan speed switch, 3-stage, additional output

Selector for 3-speed fan operation with additional output for release signal

Data sheet N3019

Stock No. Product No.

BPZ:RAB90.1 **RAB90.1**

Accessories for RAB..1..

Product Title	Stock No.	Product No.
Mounting plate 120 x 120 mm for 4 x 4" housing	BPZ:ARG70	ARG70
Mounting plate 96 x 120 mm for 2 x 4" housing	BPZ:ARG70.1	ARG70.1
Mounting plate 112 x 130 mm for surface wiring	BPZ:ARG70.2	ARG70.2

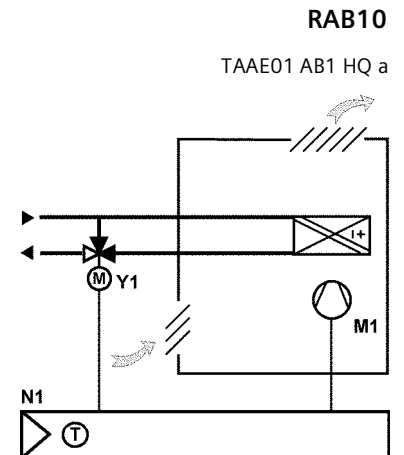
Application examples RAB..

These are only a few examples of many applications that can be done with the thermostat RAB..

More applications are described in "HIT" (the HVAC project engineering tool with a library of over 300 pre-configured HVAC-applications) and in the RAB.. data sheet.

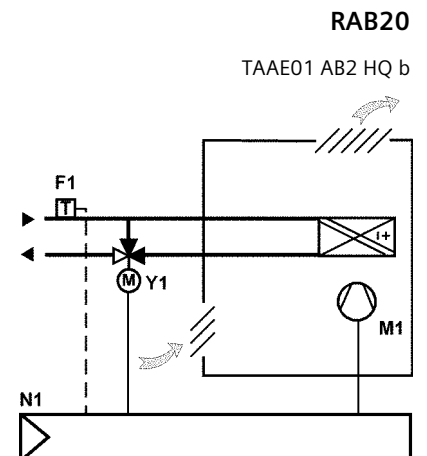
2-pipe fan coil, manual heating / cooling changeover

- 2-position control algorithm for heating or cooling systems
- Setting range of setpoint knob can be limited
- Operating mode selector for heating and cooling
- 4-position fan speed selector (I/II/III/off)



2-pipe fan coil, automatic heating / cooling changeover

- 2-position control for heating or cooling systems
- Setting range of setpoint knob can be limited
- 4-position fan speed selector (I/II/III/off)
- Heating/cooling changeover (aquastat)



Electronic room temperature controllers for fan coils

- For heating and cooling applications
- Operating mode selector
- LEDs for indicating the operating state
- Setting knob for room temperature adjustment
- External operating mode changeover contact
- Various operating modes (normal and energy saving mode, etc.)

Setpoint setting range	8...30 °C
Relay output, switching voltage	AC 230 V
Dimensions (W x H x D)	97 x 114 x 43 mm

RCC..