

Fan Coil Room Thermostats

RAB...

Product Overview

Family of room thermostats with gas-filled diaphragm for heating and / or cooling systems

Two-position control

Manual three-speed fan switch

Switching voltage AC 250 V

Control output ON / OFF

Use

The RAB... room thermostat is used in heating and/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
- aquastats

Functions

Heating

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

Cooling

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

Fan speed

There are two possibilities to control the fan speed:

- a) Manually by means of the three-speed fan switch on the thermostat for continuous operation
- b) Automatically by switching to the select fan speed via the thermostat for controlled operation

Ventilation

When the ventilation function is selected (RABxx.1), the heating and cooling contacts are always open and the fan operates at the selected speed.

Type Summary

	RAB10	RAB10.1	RAB20	RAB20.1	RAB30	RAB30.1
System functions	Heating Cooling	Heating Cooling Ventilation	Heating Cooling	Heating Cooling Ventilation	Heating Cooling	Heating Cooling Ventilation
3-speed fan switch	X	X	X	X	X	X
Changeover	Manually	Manually	Externally	Externally	Manually	Manually
Ventilation function		X		X		X
3-speed fan switch Operating mode selector	III/II/I/OFF heating / cooling	III/II/I/OFF Fan/heating/ cooling	III/II/I/OFF	III/II/I/OFF heating+cool- ing / fan	III/II/I/OFF heating / cool- ing	III/II/I/OFF heating / fan /cooling
2-pipe fan coil application	X	X	X	X		
4-pipe fan coil application					X	X
Data sheet	CE1N3011E		CE1N3012E		CE1N3013E	


Equipment combinations


Type of unit	Type reference	Data sheet
Motoric on/off actuator	SFA21...	4863
Thermal actuator (for radiator valve)	STA21...	4893
Thermal actuator (for small valve 2,5 mm)	STP21...	4878

Accessories

Description	Type reference
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 112x130 mm	ARG70.2

Technical data

 Power supply	Switching capacity	
	– Voltage	AC 24...250 V
	– Current	0.2...6 (2) A
	– Frequency	50 or 60 Hz
Operational data	Switching differential SD	≤1 K
	Setpoint setting range	8...30 °C
Environmental conditions	Operation	to IEC 721-3-3
	Climatic conditions	class 3K5
	Temperature	0...+50 °C
	Humidity	<95 % r.h.
	Pollution degree	normal, to EN 60730
	Transport / storage	to IEC 721-3-2
	Climatic conditions	class 2K3/1K3
Temperature	-20...+50 °C	
	Humidity	<95 % r.h.
	Mechanical conditions	class 2M2
	Packaging	single packaging / min. order 20 pieces
Norms and standards	CE conformity	
	Low voltage directive	73/23/EEC and 93/68/EEC
	Product standard	EN 60730

 N474 C-Tick conformity to	
EMC emission standard	AS/NSZ 4251.1:1994
Safety standard	II to EN 60730
Degree of protection	IP30 to EN 60529
Screw terminals for	2 x 1.5 mm ² or 1 x 2.5 mm ² , min. (0.5 mm ²)
Weight	0.14 kg
Colour	white, NCS S 0502-G (RAL 9003)

Additional information

For more detailed information about the individual thermostats , refer to the relevant data sheets, which are listed under "Type summary".
Mounting instructions are printed on the packing.

