

R C F



The RCF range

Controllers and thermostats for fan-coil units



REGIN

THE CHALLENGER IN BUILDING AUTOMATION



Energy-efficient control of fan-coil units

The RCF range's stand-alone controllers and thermostats for fan-coil units can be used for zone control of heating and/or cooling.

Rooms that are heated or cooled when unoccupied, or when a window is open, are a pure waste of energy. By connecting RCF to an occupancy detector, a keycard switch or a window contact, temperature and air flow are controlled automatically from the occupancy in the room. If a window is open, heating and cooling will be blocked. This way, room comfort is maintained at a comfortable level at the same time as saving energy.

Systems:

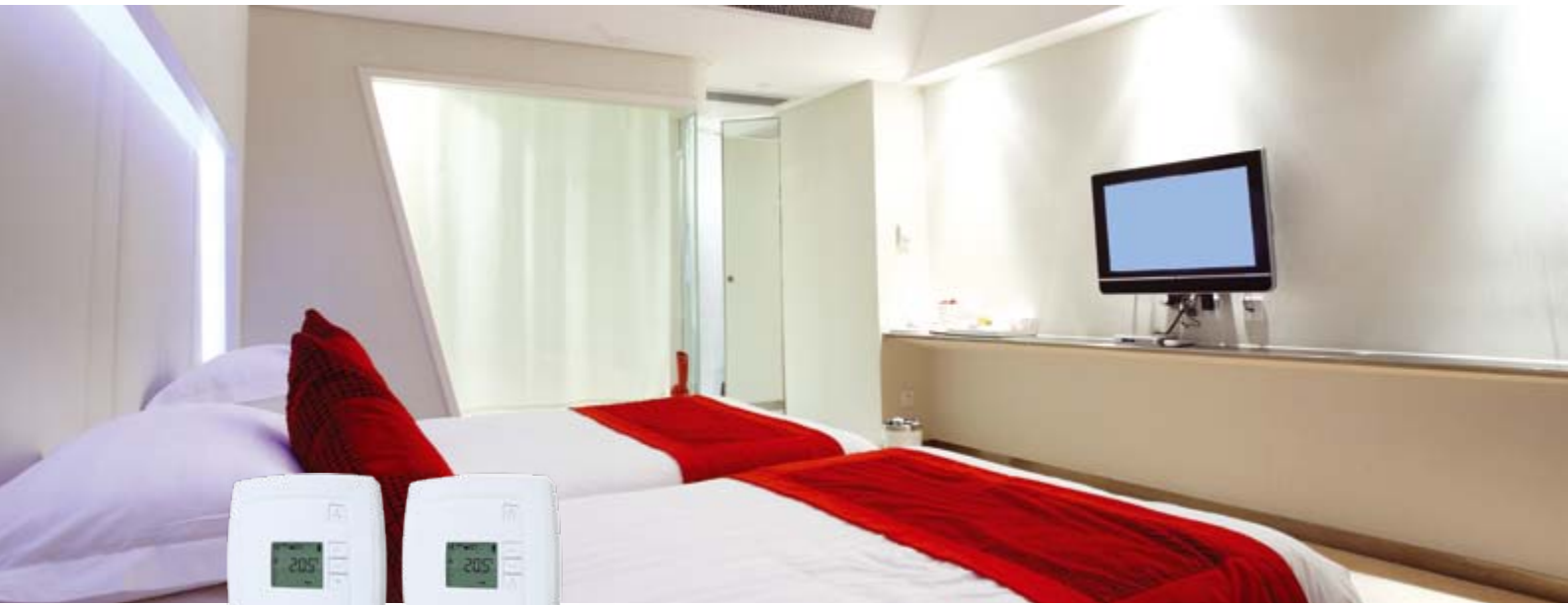
- Heating/cooling water
- Electric heating
- 2-pipe systems
- 2- or 4-pipe systems

Control of:

- 3-position actuators
- Thermal actuators
- On/Off actuators
- 0...10 V DC actuators

Functions:

- 3-speed fan
- Connection of occupancy detector, keycard switch or window contact
- Automatic or manual (M models) change-over between heating/cooling
- Automatic valve exercise
- Models with communication (EXOline, BACnet or Modbus)



The RCF range has a stylish design inspired by the award-winning Regio range.

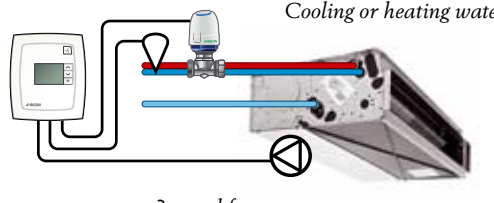
For all types of fan-coil units and premises

The RCF range can control all types of fan-coil units and is suitable in applications where a high comfort level and low energy consumption is desired.

- *Hotels*
- *Conference rooms*
- *Offices*
- *Shops*
- *Schools*
- *Hospitals etc.*



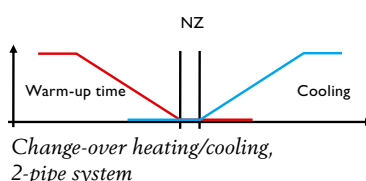
Control of a ceiling convector, 2-pipe system



Cooling or heating water

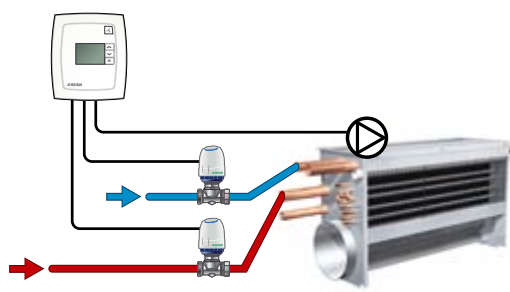
3-speed fan

One circuit is used for heating/cooling in sequence. Automatic change-over between heating and cooling using a temperature sensor (TG-A1/PT1000) on the supply circuit. There is also a model with manual change-over between cooling and heating.

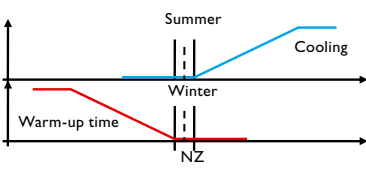


Change-over heating/cooling, 2-pipe system

Control of a window convector, 4-pipe system

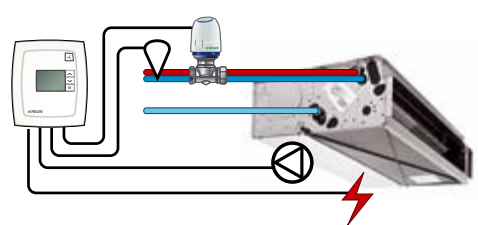


4-pipe system with cooling and heating circuits, controlled by separate outputs on the controller/thermostat.



Change-over heating/cooling, 4-pipe system

Control of an electric heating ceiling convector in combination with heating/cooling water



Electric heating in steps in combination with cooling water during the summer. Change-over to electric heating in combination with heating water during the winter.



Occupancy detector or keycard switch for saving energy

By connecting an occupancy detector or a keycard switch to a digital input, you can alternate between Comfort and Economy mode. This way, the temperature is controlled from requirement, making it possible to save energy while maintaining the temperature at a comfortable level.

Using occupancy detection, you can delay activation and/or inactivation of Comfort mode in order to avoid switching mode if someone temporarily enters or leaves the room.

Another option is to connect a window contact to the input. This will set the controller/thermostat to "Off" mode if a window is opened, thereby minimising energy consumption.

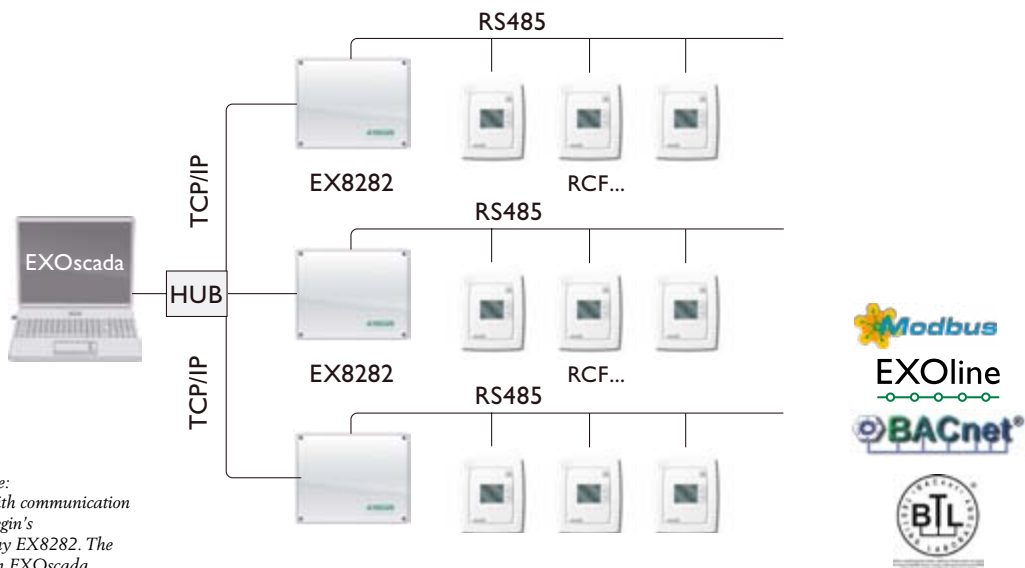


RCF with communication

RCF models with communication can be connected to BACnet, Modbus or EXOline in order to communicate with a central SCADA system via RS485. The models are pre-programmed, but can be configured using Regin's software Regio tool[®]. RCF-230CD, RCF-230CTD and RCF-230CAD are BTL listed from software version 1.2-1-00 (BACnet stack 3.0.4).



Regio tool[®] can be downloaded free of charge from Regin's website



System example:
RCF models with communication
connected to Regin's
TCP/IP gateway EX8282. The
SCADA system EXOscada.




Model overview

Model	Control of			Communi- cation	Systems	
	On/Off actuators	Thermal or 3-posi- tion actuators	0...10 V DC actua- tors (analogue)		2-pipe	4-pipe
RCF-230D	x				x	x
RCF-230CD	x			x	x	x
RCF-230TD		x			x	x
RCF-230CTD		x		x	x	x
RCF-230AD			x		x	x
RCF-230CAD			x	x	x	x
RCFM-230D	x				x	
RCFM-230TD		x			x	

Automatic change-over heating/cooling via a PT1000 sensor

Manual change-over heating/cooling

Complete solutions



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