



# SIEMENS

Building Technologies

## Room Control Overview





SIEMENS

20.5°C

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REV16

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14.50h  
14°C

SIEMENS

24.5°C  
18:20  
AUTO





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- **Residential Applications**
- **Universal Applications**
- **VAV/CAV Controllers**
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# Fan Coil Unit Thermostats



## The Basic Solution RAB...

Electromechanical fan coil thermostats RAB...

- very versatile
- stylish design
- high quality
- quick and easy installation

## Fan coil thermostats RAB...

The room thermostats of the RAB... range from Siemens are especially designed for heating and cooling with fan coil units to maintain the selected room temperature.

The thermostats are two-position controllers with a two-wire connection and acquire the room temperature with the help of a gas expansion diaphragm. The required room temperature is selected with the setpoint knob on the front of the unit. The fan speed is selected via a three-position switch, and is also located on the front. The fan may continuously run at the selected speed or only when an output is activated.



## The Modern Solution RCC...

Electronic fan coil thermostats RCC...

- LED's for operating mode indication
- auxiliary input (e.g. key card contact)
- automatic heating / cooling changeover
- asset protection (humidity damage prevention)

## Fan coil thermostats RCC...

RCC Thermostats are used for heating, cooling or both heating & cooling with automatic changeover. They offer modern, microprocessor-controlled room temperature control for fan coil applications. The RCC family members combine easiest operation with the highest flexibility. This, and the nice design, makes them especially suitable for hotel rooms. The required room temperature is selected via the setpoint knob on the front

of the thermostat. A temperature sensor (internal or remote) senses the actual room temperature and maintains the set value by controlling the heating/cooling valves. An "On/Off" or "3-point" or even a precise analogue output signal is available. Automatic changeover from heating to cooling and vice versa in a 2-pipe system is possible via a cable temperature sensor. The fan speed can be selected via a three-position switch, also located on the front. LED's at the front indicate whether the controller is heating or cooling and if the fan is running. An optional remote temperature sensor allows control according to the return air temperature. Economy mode is commanded by an auxiliary contact (window contact, presence sensor, and key card - or keyboard switch) can help to save energy.



## The Advanced Solution RDF...

Electronic fan coil thermostats with display RDF...

- auxiliary input (e.g. key card contact)
- automatic heating / cooling changeover
- asset protection (humidity damage prevention)
- automatic fan speed
- weekly-time program
- infrared remote control
- suitable for compressor application
- high flexibility

## Fan coil thermostats RDF...

RDF Thermostats are used for heating, cooling or both heating & cooling with automatic changeover. A version with manual change-over is also available. They offer modern, microprocessor-controlled room temperature control for fan coil application. The RDF family members combine easiest operation, highest flexibility with a digital display. This, and the nice design, makes them especially suitable for

offices and also for hotel rooms where a display is required.






The required room temperature is selected via push buttons on the front of the thermostat. A temperature sensor (internal or remote) senses the actual room temperature and maintains the set value by controlling the heating/cooling valves. An "On/Off" or "3-point" or even a precise analogue output signal is available. Automatic changeover from heating to cooling and vice versa in a 2-pipe system is possible via a cable temperature sensor. The fan speed can be selected via a switch, also located on the front, variants with automatic fan speed control are also available. The humidity damage prevention function works in conjunction with a key card reader and is especially designed for hotels in a warm and humid climate (asset protection). An optional remote temperature sensor allows control according to the return air temperature.










# The Elegant Control Valve for Fan Coil Applications






## Fail-in-place application on-off line

SUA22			Diameter	$K_{vs}$ [m³/h]	$\Delta P_s$ [kPa]	$\Delta P_{max}$ [kPa]	
VVI46.15		2-way valve	DN15	2.0	300	100	
VVI46.20			DN20	3.5	300		
VVI46.25			DN25	5.0	300		
VXI46.15		3-way valve	DN15	2.0	-	100	
VXI46.20			DN20	3.5	-		
VXI46.25			DN25	5.0	-		
VXI46.25T			DN25	5.0	-		

## Fail-safe application on-off line

SFA21			Diameter	ASN when Valve & Actuators combined as a product	$K_{vs}$ [m³/h]	$\Delta P_s$ [kPa]	$\Delta P_{max}$ [kPa]	
VVI46.15		2-way valve	DN15	MVI421.15	2.0	300	100	
VVI46.20			DN20	MVI421.20	3.5	300		
VVI46.25			DN25	MVI421.25	5.0	300		
VXI46.15		3-way valve	DN15	MXI421.15	2.0	-	100	
VXI46.20			DN20	MXI421.20	3.5	-		
VXI46.25			DN25	MXI421.25	5.0	-		
VXI46.25T			DN25	-	5.0	-		

## Fail-in-place application modulating line

STS61			Diameter	$K_{vs}$ [m³/h]	$\Delta P_s$ [kPa]	$\Delta P_{max}$ [kPa]	
VVI46.15		2-way valve	DN15	2.0	150	100	
VVI46.20			DN20	3.5	150		
VVI46.25			DN25	5.0	150		
VXI46.15		3-way valve	DN15	2.0	-	100	
VXI46.20			DN20	3.5	-		
VXI46.25			DN25	5.0	-		
VXI46.25T			DN25	5.0	-		

## Product features and benefits

### V...I46 with SUA22

- Higher close off pressure to 3 bar
- LED visual position indicator
- Direct coupled – install without tools
- All metal plug and seat for superior control
- IP protection to IP40
- Energy saving is possible for drive open / close design

### M...I421

- Higher close off pressure to 3 bar
- Visual position indicator
- Direct coupled – install without tools
- All metal plug and seat for superior control
- Auxiliary end switch can be added as option
- Manual override with auto unlock
- Quiet operation

### V...I46 with STS61

- No mechanical parts in actuator provide quiet & friction-free operation
- Fail-safe modulating function
- Movement and position indicator provided
- All metal plug and seat suitable for superior control
- AC/DC 24V power supplier suitable all types of application



# Overview of the Siemens Fan Coil Unit Room Thermostat Range

MODEL	APPLICATION						FUNCTIONALITY									
	2-pipe/heating only	2-pipe/cooling only	2-pipe/heating or cooling	2-pipe/cooling & electric heating	2-pipe/cooling or heating & elec, heating	4-pipe/cooling & heating	Control Algorithm	Manual heat-cool changeover	Automatic heat-cool changeover	Manual fan speed off/II/III	Asset protection	Ventilation function	Fan cycling	Weekly - time program	Display	Infrared remote control
<b>The Basic Solution</b>																
RAB10			•				2P	•		•			•			
RAB10.1			•				2P	•		•		•				
RAB20	•	•	•				2P		•	•			•			
RAB20.1	•	•	•				2P		•	•		•				
RAB30						•	2P	•		•			•			
RAB30.1						•	2P	•		•		•				
RAB40.1		•					2P			•		•				
RAB90							No			•						
RAB90.1							No			•						
<b>The Modern Solution</b>																
RCC10	•	•	•				2P		•	•			•		LED	
RCC10.1	•	•	•				2P		•	•	•		•		LED	
RCC20				•	•		2P		•	•			•		LED	
RCC30						•	2P		•	•			•		LED	
RCC50.1	•	•	•				PI		•	•	•		•		LED	
RCC60.1	•	•	•				PI		•	•	•		•		LED	
<b>The Advanced Solution</b>																
RDF10	•	•	•				2P		•	•	•		•		LCD	
RDF10.2			•				2P	•		•			•		LCD	
RDF20				•	•		2P		•	•	•		•		LCD	
RDF30						•	2P		•	•	•		•		LCD	
RDF50.1	•	•	•				PI		•	•	•		•		LCD	
RDF60.1	•	•	•				PI		•	•	•		•		LCD	
RDF110	•	•	•				2P		•	•	•		•		LCD	• <sup>2)</sup>
RDF110.2			•				2P	•		•			•		LCD	• <sup>2)</sup>
RDF210	•	•	•				2P		•	•	•		•	•	LCD	• <sup>2)</sup>
RDF210.2			•				2P	•		•	•		•	•	LCD	• <sup>2)</sup>
RDF310.2 <sup>4)</sup>	•	•	•				2P	•		•			•		LCD	
RDF310.21 <sup>4)</sup>	•	•	•				2P	•		•			•		LCD <sup>1)</sup>	•
RDF410.21 <sup>4)</sup>	•	•	•				2P	•		•	•		•	•	LCD <sup>1)</sup>	•

OUTPUTS			INPUTS			POWER SUPPLY	USER INTERFACE
On/Off	0...10V	3-point	Operating mode changeover contact	Return air temperature sensor	Heat-cool changeover sensor		

•						AC24..250V	fan speed switch, heat-cool co switch, setpoint knob
•						AC24..250V	fan speed switch, vent-heat-cool switch, setpoint knob
•						AC24..250V	fan speed switch, setpoint knob
•						AC24..250V	fan speed switch, heat/cool-vent switch, setpoint knob
•						AC24..250V	fan speed switch, heat-cool co switch, setpoint knob
•						AC24..250V	fan speed switch, heat-vent-cool co switch, setpoint knob
•						AC24..250V	fan speed switch, cool(compressor)-vent-off switch, setpoint knob
•						AC24..250V	fan speed switch
•						AC24..250V	fan speed switch, manual output switch

•			•	•	•	AC230V	fan speed switch, setpoint knob
•			•		•	AC230V	
•			•	•	•	AC230V	
•			•	•		AC230V	
	•		•		•	AC24V	
		•	•		•	AC230V	

•			•	•	•	AC230V	fan speed switch, setpoint buttons
•						AC230V	fan speed switch, setpoint buttons, heat-cool switch
•			•	•	•	AC230V	fan speed switch, setpoint buttons
•			•	•		AC230V	fan speed switch, setpoint buttons
	•		•	•	•	AC24V	fan speed switch, setpoint buttons
		•	•	•	•	AC230V	fan speed switch, setpoint buttons
•			•	1) 3)	1) 3)	AC230V	fan speed button, setpoint buttons
•						AC230V	fan speed button, setpoint buttons, heat-cool button
•				1) 3)	1) 3)	AC230V	fan speed button, setpoint buttons, time-prog. buttons
•						AC230V	fan speed button, setpoint buttons, heat-cool button, time-prog. buttons
•						AC230V	fan speed button, setpoint buttons, heat-cool button
•						AC230V	fan speed button, setpoint buttons, heat-cool button
•						AC230V	fan speed button, setpoint buttons, heat-cool button, time-prog. buttons

1) With backlight

2) Infrared remote control optional

3) Either return air temperature sensor or heat-cool changeover sensor

4) Flush-mounted, fixing centers 60.3mm



## RDU20

### The RDU20 thermostat for digital home solutions

- Advanced digital features at your fingertips
- Digital LCD display
- Micro-processor based technology
- Automatic heating / cooling changeover

### RDU20 thermostats

RDU20 are suitable for residential applications using 3-position damper actuators such as the Siemens GXD... for heating or cooling.

The required room temperature is selected via push buttons on the front of the thermostat. A temperature sensor (internal or remote) senses the actual room temperature and maintains the set value by controlling the PI heating or cooling outputs. The RDU20 thermostat has built-in selectable parameters that allow you to change heating or cooling set points of the energy saving mode, minimum or maximum set point limitation, heat-cool changeover

switching point in heating or cooling mode, sensor calibration, P-bands, integral action time and minimum output limitation in cooling mode.

### More packed features

- Remote air temperature sensor input
- Heat-cool changeover sensor input for automatic changeover
- Modulating PI control or ON/OFF control selectable
- 3-point output for heating or cooling
- 2 Operating modes: (Normal, energy saving or off- parameter selectable)
- Selectable installation and control parameters
- Display of room temperature or set point selectable

RDU20 digital thermostats provide home comfort at your fingertips.



GSD/GQD with anti-rotation arm



GSD/GQD with standard mounting

## GSD / GQD

### GSD.../GQD... The Compact & Powerful Damper Actuators

Siemens has been providing air damper actuators for commercial applications for over 20 years. The development of OpenAir™ range is founded on these many years of experience and extended to residential market segment. Now, this advanced and affordable technology is ready for your home or other residential applications.

With the introduction of the new family Gap Tiny, an idea solution for residential damper actuators is formulated. The GSD and GQD line with torque of 2Nm is designed to operate direct driven zone damper with either fail-safe or fail-in-place function. The new family drive the damper actuators with standard mounting method. An alternative of mounting method with anti-rotation shaft can be mounted directly to protruded damper shaft.

	ASN	Voltage	Frequency	Control concept	Power consumption	Wiring concept	Mounting concept
Fail-in-place	GSD141.6A	24V AC / DC	50/60 Hz	SPDT	< 15 VA running	0.9m	With anti-rotating arm
	GSD141.6K	24V AC / DC	50/60 Hz	SPDT		RJ Connector	With anti-rotating arm
	GSD121.1A	24V AC / DC	50/60 Hz	SPST		0.9m	Standard type
	GSD341.6A	230V AC	50/60 Hz	SPDT		0.9m	With anti-rotating arm
	GSD321.1A	230V AC	50/60 Hz	SPST		0.9m	Standard type
Fail-safe	GQD321.6A	230V AC	50/60 Hz	On/Off	< 15 VA running	0.9m	With anti-rotating arm
	GQD321.1A	230V AC	50/60 Hz	On/Off		0.9m	Standard type
	GQD121.6A	24V AC / DC	50/60 Hz	On/Off	< 7 VA running	0.9m	With anti-rotating arm
	GQD121.1A	24V AC / DC	50/60 Hz	On/Off		0.9m	Standard type
	GQD131.1A	24V AC / DC	50/60 Hz	3 points		0.9m	Standard type
	GQD161.1A	24V AC / DC	50/60 Hz	0...10Vdc		0.9m	Standard type



# Universal Room Thermostats

## The Basic Solution RAA...

- Simple and affordable
- Easy to use
- On/off output control (2-position control algorithm)
- Manual heat-off-cool changeover

### RAA... thermostats

RAA... Room thermostats provide affordable solutions for heating, cooling or both heating & cooling. A tamper proof version ideal for schools, public buildings and storage rooms

requiring on/off control output is available. Other models with an additional on/off switch can also be used in heating only or cooling only systems ideal for residential or light industrial buildings.

Variant models with 3-point control output or 2-position on/off heating and cooling output with manual heat-off-cool changeover also exists. The RAA... Family may be used in conjunction with zone valves, thermal valves, gas or oil burners, fans and pumps.



## The Modern Solution RCU...

- Stylish and functional
- Micro-processor based technology
- Operating mode changeover inputs

### Selections Available

- Minimum air volume limitation cooling function for VAV models
- External set-point shift input
- Remote air temperature sensor input
- Automatic or manual heat-cool changeover
- On/off, pwm, 3-point and 0...10V control

### RCU... thermostats

The RCU room thermostats incorporate the latest in microprocessor technology that gives you more flexibility.

The RCU.. family universal type thermostat is designed for heating, cooling or both heating and cooling or 2 stage heating sequences and

cooling with electric heating. Versions with 2-position, modulating PI Control (On/Off or PWM) and 0...10Vdc are available. Other features include, different operating modes such as stand-by, energy saving, normal mode or off. Manual or automatic changeover used in conjunction with heat-cool changeover sensor models are also available.

An optional remote temperature sensor allows control according to the return air temperature. Economy or energy saving mode – commanded by an auxiliary contact (window contact, presence sensor, and key card – or keyboard switch) helps save energy. More options such as frost protection is available by DIP switch selection and external set point shift control for use with variable air volume systems truly make the RCU... family the most flexible thermostat.



## The Advanced Solution RDU...

- Advanced digital features at your fingertips
- Digital LCD display
- Micro-processor based technology
- Operating mode changeover inputs

### Selections Available

- Minimum air volume limitation
- Remote air temperature sensor input
- Automatic or manual heat-cool changeover
- 3-point or 0...10V control

### RDU... thermostats

RDU room thermostats are designed for universal and variable air volume systems that require both heating or cooling. The RDU... family combines the digital features you have always wanted in a digital thermostat with full functionality and appearance in mind. Different RDU models are available with modulating PI control for 3-point or 0...10Vdc control. The RDU... Family thermostat has built-in

selectable parameters that allow you to change heating or cooling set points of the energy saving mode, minimum or maximum set point limitation, heat-cool changeover switching point in heating or cooling mode, sensor calibration, P-bands, integral action time and minimum output limitation in cooling mode.

More features include, an optional remote temperature sensor that allows control according to the return air temperature. Two different operating modes such as normal mode or energy saving mode – commanded by an auxiliary contact (window contact, pressure sensor, and key card – or keyboard switch) helps save energy. Manual or automatic changeover used in conjunction with heat-cool changeover sensor models are also available. With the RDU "Digital Comfort" thermostat, you get it right the first time.



# Overview of Siemens Universal Room Thermostats Range

MODEL	APPLICATION							FUNCTIONALITY				
	Heating only	Cooling only	Heating or cooling	Heating and cooling	2 heating sequences	Cooling or heating & electric heating	Automatic heat-cool changeover	Manual heat-cool changeover	Control Algorithm	Vmin cooling	Minimum limitation of supply air temperature	Digital display (LCD)
The Basic Solution												
RAA10	•	•							2P			
RAA20	•	•							2P			
RAA30	•	•							2P			
RAA40			•					•	2P			
The Modern Solution												
RCU10				•	•	•			PI			
RCU10.1				•	•	•			PI			
RCU15				•	•				PI			
RCU20	•	•	•				•		PI			
RCU50	•	•	•				•		P	•		
RCU50.1	•	•	•				•		P	•		
RCU50.2	•	•	•					•	P			
RCU60				•		•			P	•		
RCU60.1				•		•			P	•		
RCU61				•					P	•		
RCU61.1				•					P	•		
RLA162	•	•	•	•	•	•	•	•	PI		•	
The Advanced Solution												
RDU20	•	•	•				•		PI			•
RDU50	•	•	•				•		PI	•		•
RDU50.2	•	•	•					•	PI	•		•

OUTPUTS				INPUTS				POWER SUPPLY	USER INTERFACE
On/Off	PWM	3-point	0...10V	Operation mode changeover contact (e.g. window contact or key card reader)	Heat-cool changeover sensor	Remote or return air temperature sensor	External setpoint shift		
•								AC24..250V	tamperproof
•								AC24..250V	setpoint knob
•								AC24..250V	setpoint knob, on/off switch
•								AC24..250V	setpoint knob, heat/off/cool switch
•	•			•				AC230V	setpoint knob
•	•			•				AC230V	setpoint knob, op mode switch
•	•			•		•		AC24V	setpoint knob
		•		•	•			AC230V	setpoint knob
			•	•	•		• <sup>1)</sup>	AC24V	setpoint knob
			•	•	•		• <sup>1)</sup>	AC24V	setpoint knob, op mode switch
			•					AC24V	setpoint knob, heat/off/cool switch
	•		•	•			• <sup>1)</sup>	AC24V	setpoint knob
	•		•	•			• <sup>1)</sup>	AC24V	setpoint knob, op mode switch
		•	•	•			• <sup>1)</sup>	AC24V	setpoint knob
		•	•	•			• <sup>1)</sup>	AC24V	setpoint knob, op mode switch
		•	•				• <sup>2)</sup>	AC24V	setpoint knob
		•		•	•	•		AC230V	setpoint buttons
			•	•	•	•		AC24V	setpoint buttons
			•	•		•		AC24V	setpoint buttons, heat/off/cool switch

1) External set point shift by 0 to 10V input

2) External set point shift by outdoor temperature sensor

# OpenAir™ GDB/GLB181 • 1E/3

## - Variable Air Volume (VAV) Intelligent Solution

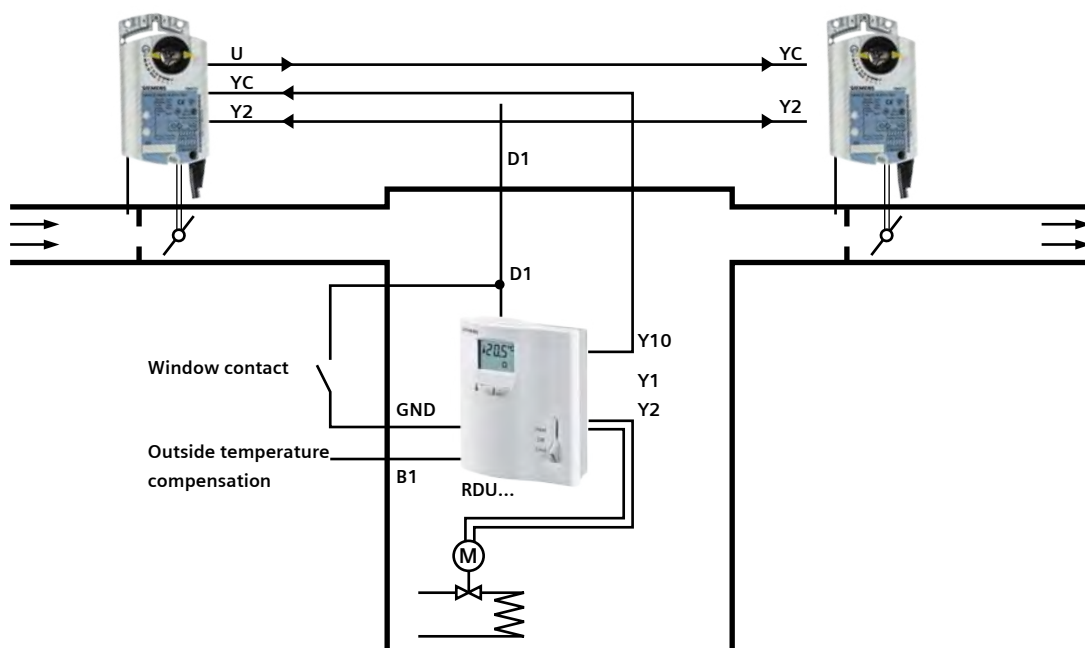


### Product Features :

- Non-spring return air damper actuator
- Rotary actuator for 5 Nm / 10 Nm
- Operating voltage AC 24V
- Integrated fast, static, position-independent pressure sensor for 300 Pa.
- Air volume control loop
- Digital communication
- Damper shaft from 6 to 16 mm
- Nominal angle of rotation at 90°
- Colour and number coded cable
- Digital handheld programming terminal AST10 for easy commissioning
- ASV181.1E/3 for higher torque or special requirement such as spring return facility or feedback potentiometer.

Specification		
Operating voltage		AC 24V
Frequency		50/60 Hz
Torque	GDB181.1E/3	5 Nm
	GLB181.1E/3	10 Nm
Running time at 50Hz		150 Hz
Protection standard		IP54
Power consumption		24 VA
Control signal		DC 0-10V / 3 position
Communication signal type		PPS2
Actuator rotary direction (selectable)		clockwise / counter clockwise
Insulation class		III
Shaft dimension	Round	8 to 16 mm
	Square	6 to 12 mm
	Min shaft length	30 mm
Sensor accuracy across 2...	100% of pressure range	±2.5%
Max. permissible operating pressure		300 Pa
Operating temperature		0 to 50 °C
Dimensions		68 (W) x 137 (H) x 59.5 (D)mm
Weight		0.54 kg

### Typical application with RDU60.1 and GDB181.1E/3 in heating and cooling application



# The Smart Solution RDX...

## Electronic heat pump thermostats

- Stylish design with a digital display
- User friendly
- Quick and easy installation
- Auxiliary input (e.g. key card activation)
- Auxiliary heating output
- Manual heat-cool changeover
- Continuous or Auto-fan cycling
- High flexibility

## Heat pump thermostats RDX...

RDX42... room thermostats are tailored for the control of heat pumps with one-stage-compressor, reversing valve and optional electric heating or for the control of room temperature in individual rooms that are heated or cooled with 4-pipe fan coil units and optional electric heating. It offers modern micro-processor-controlled room temperature control for heat pump applications. The RDX family members combine easiest operation, high flexibility with a digital display. This makes it especially suitable for residential and light commercial applications.

The required room temperature is selected via push buttons on the front of the thermostat. A temperature sensor (internal or remote) senses the actual room temperature and maintains the set value by controlling the heating or cooling outputs or compressor and reversing valve. The thermostat has a manual heat-cool changeover selector on the front panel.



A single fan speed can be either set to continuous or automatic fan cycling. The thermostat has built-in selectable parameters that allow you to change compressor on or off delay times, set minimum or maximum temp set points, control auxiliary heater hold time, fan overrun delay function, adjust switching differentials and much more.

Other important features that come with the RDX include temperature or setpoint display only function that is especially suitable in hotels. In addition to this, the energy saving mode setpoint in heating or cooling mode can be activated when the changeover switch is turned on.

The RDX thermostat for heat pump applications is a compact and smart choice.

Model		RDX42.2	RDX42.22
Application	1-stage cooling and 1-stage heating	•	•
	1-stage cooling and 2-stages heating	•	•
Functionality	Control Algorithm	2P	2P
	Manual heat-cool changeover	•	•
	1-speed fan	•	•
	Fan release (selectable)		
Output	LCD	•	•
	On/Off SPDT	2	2
Input	On/Off SPST	1	1
	Operation mode changeover contact	•	•
	Return air temperature sensor	•	•
POWER		AC230V	AC24V
USER INTERFACE		fan speed switch (auto-fan on), heat-off-cool switch, setpoint buttons	fan speed switch (auto-fan on), heat-off-cool switch, setpoint buttons





# Heating Room Thermostat



### The Standard Thermostats

suit customers for whom affordability and simplicity are the top priorities.

- Stylish and slim design
- Quick and easy installation
- Easy operation
- Options for AC230V or battery supply versions
- Options for 16A output



### The Push and Roll Thermostats

have a unique roller-selector programming interface.

- Elegant design
- Push and Roll interface
- Options for 24-hour, 7-day or 5/2 day program

- Easy installation
- Optimum in home comfort and energy saving
- Options for 2-position or 3-position output
- Options for telephone contact
- Option for holiday mode



### The Touch Screen Thermostats

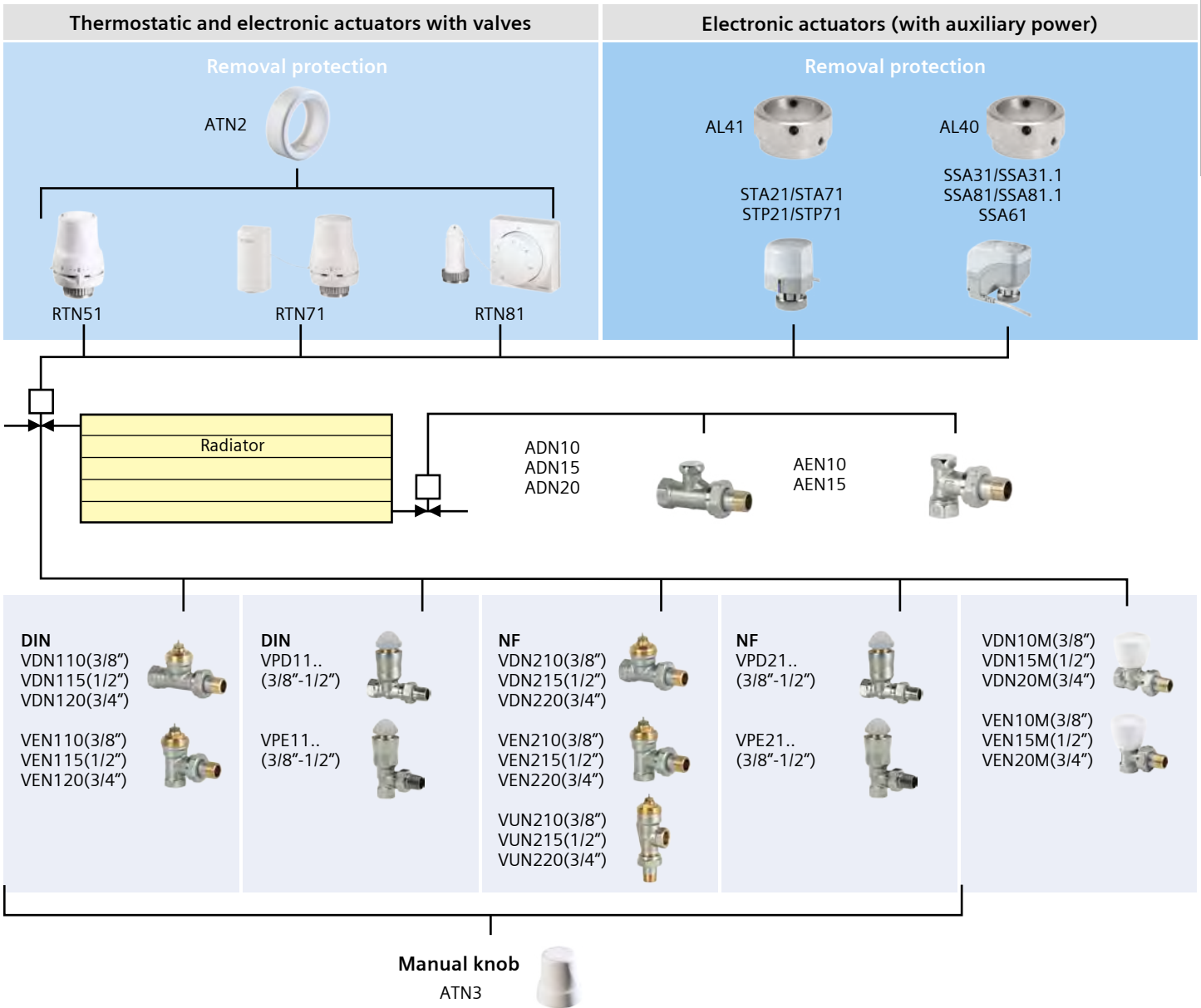
have a futuristic and intuitive user interface.

- Futuristic design
- Touch screen interface for easier programming
- Option for backlight display
- Options for 24-hour, 7-day program

	Model	Application		Functionality								Power	User Interface		
		Heating only	Cooling only	Control algorithm	LCD	Delay timer	Daily time program	Weekday / Weekend time program	Weekly time program	On / Off	3-point			External temperature sensor	Remote telephone contact
Standard	The Standard Solution														
	RDD10*	•		2P	•	•				•			AC230V	Setpoint buttons, op mode button, timer-set button	
	RDD10.1*	•		2P	•	•				•			Battery		
	RDE10*	•		2P	•					•	•		AC230V	Setpoint buttons, op mode button, programming button	
	RDE10.1*	•		2P	•					•	•		Battery		
	RDE20.1*	•		2P	•					•	•	•	Battery		
Push and Roll	The Elite Solution														
	REV12	•		PID	•		•			•			Battery	Setpoint buttons, op mode button, programming with roller-selector	
	REV16	•		PID	•		•	•		•		•			
	REV23	•	•	PID	•		•	•	•	•					•
	REV33	•		PI	•		•	•	•		•				•
Touch Screen	REV100	•		PID	•		•			•			Battery	Touch screen	
	REV200	•	•	PID	•		•			•		•			
	REV300	•		PI	•		•			•		•			

\*Option : External 16A output using SEZ16

# The Complete Line of Radiators - TRV & MCV



## Product Features

### VDN.../VEN... Pre-adjustable radiator valve

- Fulfill EN215 Standard
- Replaceable while the plant is under pressure

### VPD.../VPE... - MiniCombiValves (MCV)

- Through and angle valves PN10 Radiator valve
- Provide auto-balance to hydraulic circuit
- Minimize noise problem
- Create comfort and energy-saving environment

### RTN... - Thermostatic radiator valve

- Self-contained actuator with manual setpoint adjustment
- Quiet operation
- Long service life

### SSA... - Motoric actuator for radiator valves

- High quality and ideal for 2.5 mm stroke
- Detect valve stroke automatically

### STA.../STP... - Thermic actuator for radiator valves

- Silence operation
- Long service life at favorable prices
- Fail-safe operation