ED-RU...

Room units intended for temperature control.

The ED-RU...is a range of external room units intended for temperature control via a controller running an application. They can also be used together with Regin's system controllers.

✓ A range of units with different features

✓ Built-in room sensor

✓ Range up to 300 m

✓ Design suitable for all environments

Application

The ED-RU range enables temperature adjustments, for example of air handling units. They can be used together with a Regin system controller, where the setup must be done with Regin's tool for free programmable controllers.

Perform basic controller configuration, or let the person in the room control the room's HVAC behaviour via a connected ED-RU... room unit. Choose from a large selection of room units that fit your specific needs.

Function

Depending on which features one prefers for the handling of the unit, there is a number of different options such as CO_2 control, backlit touch display, 3-step fan control, setpoint knob etc. All units have a built-in temperature sensor.

All features are specified under the section *Models and functions*

Installation

Based on the used controller the product can be installed with one of two options:

1. The room unit can be connected to the same supply voltage as the controller. Communication then takes place via EXOline and is connected to the serial ports (RS485), A and B.

2. The unit can also be connected via an EDSP-K3 cable to the display port.

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Technical data

Supply voltage	18...30 V AC, 50 / 60 Hz
Power consumption	25 mA
Protection class	IP20
Ambient humidity	Max. 90% RH (non-condensing)
Ambient temperature	0…50°C
Storage temperature	-20…+70°C
Mounting	Room

Technical data, built-in temperature sensor

Temperature sensor	NTC type
Temperature range	0…50°C
Accuracy	±0.5°C at 15…30°

Technical data, built-in CO_2 sensor (ED-RU-DOCS only)

Temperature dependence	5ppm per °C or 0.5 % of the reading per °C (whichever is greater)
Long term sability	< 2 % of FS over life of sensor (15 years typical)
Response time	< 3 min. for 90 % step change typical
Warm-up time	<2 min. (operational), 10 min. (maximun accuracy)
Measuring principle	NDIR (Non-Dispersive Infrared Technology)
Measuring range CO_2	0…5000 ppm
Accuracy	400…5000 ppm ±25 ppm ± 3 % of the reading
Signal update	Every 5 seconds

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This product carries the CE-mark. More information is available at www.regincontrols.com.

Material

Material, housing	Polycarbonate, PC
Colour	White: RAL 9003, Signal white / Black: RAL 9005, Jet black

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Models and functions

Article	Occupancy button	3-step fan control	Built-in CO_2 sensor	Setpoint knob	Multi-function button	Hidden setpoint	Display
ED-RU (-BLACK)	-	-	-	Y	-	-	-
ED-RU-O	Y	-	-	Y	-	-	-
ED-RU-F	-	Y	-	Y	-	-	-
ED-RU-FO	Y	Y	-	Y	-	-	-
ED-RU-DO (-BLACK)	Y	-	-	-	-	-	Y
ED-RU-DFO	Y	Y	-	-	-	-	Y
ED-RU-DOS	Y	-	-	-	Y	-	Y
ED-RU-H (-BLACK)	-	-	-	-	-	Y	-
ED-RU-DOCS (-BLACK)	Y	-	Y	-	-	-	Y

Dimensions
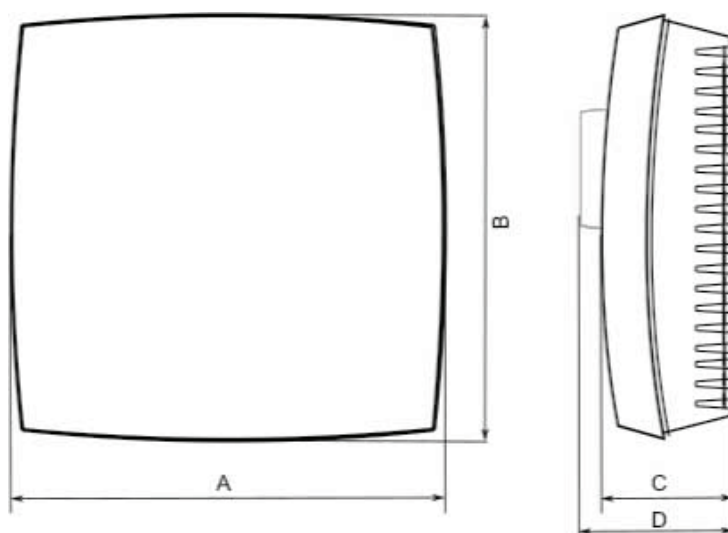
Model	A	B	C	D
ED-RU	95	95	-	31
ED-RU-BLACK	95	95	-	31
ED-RU-O	95	95	-	31
ED-RU-F	95	95	-	31
ED-RU-FO	95	95	-	31
ED-RU-DO	95	95	28	-
ED-RU-DO-BLACK	95	95	28	-
ED-RU-DFO	95	95	28	-
ED-RU-DOS	95	95	28	-
ED-RU-H	95	95	28	-
ED-RU-H-BLACK	95	95	28	-

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Model	A	B	C	D
ED-RU-DOCS	95	95	38	-
ED-RU-DOCS-BLACK	95	95	38	-

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Documentation

All documentation can be downloaded from www.regincontrols.com.

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