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Room and return temperature control “Unibox TQ-RTL R-Tronic”

Data sheet

1. Functional description

1.1 Functional description

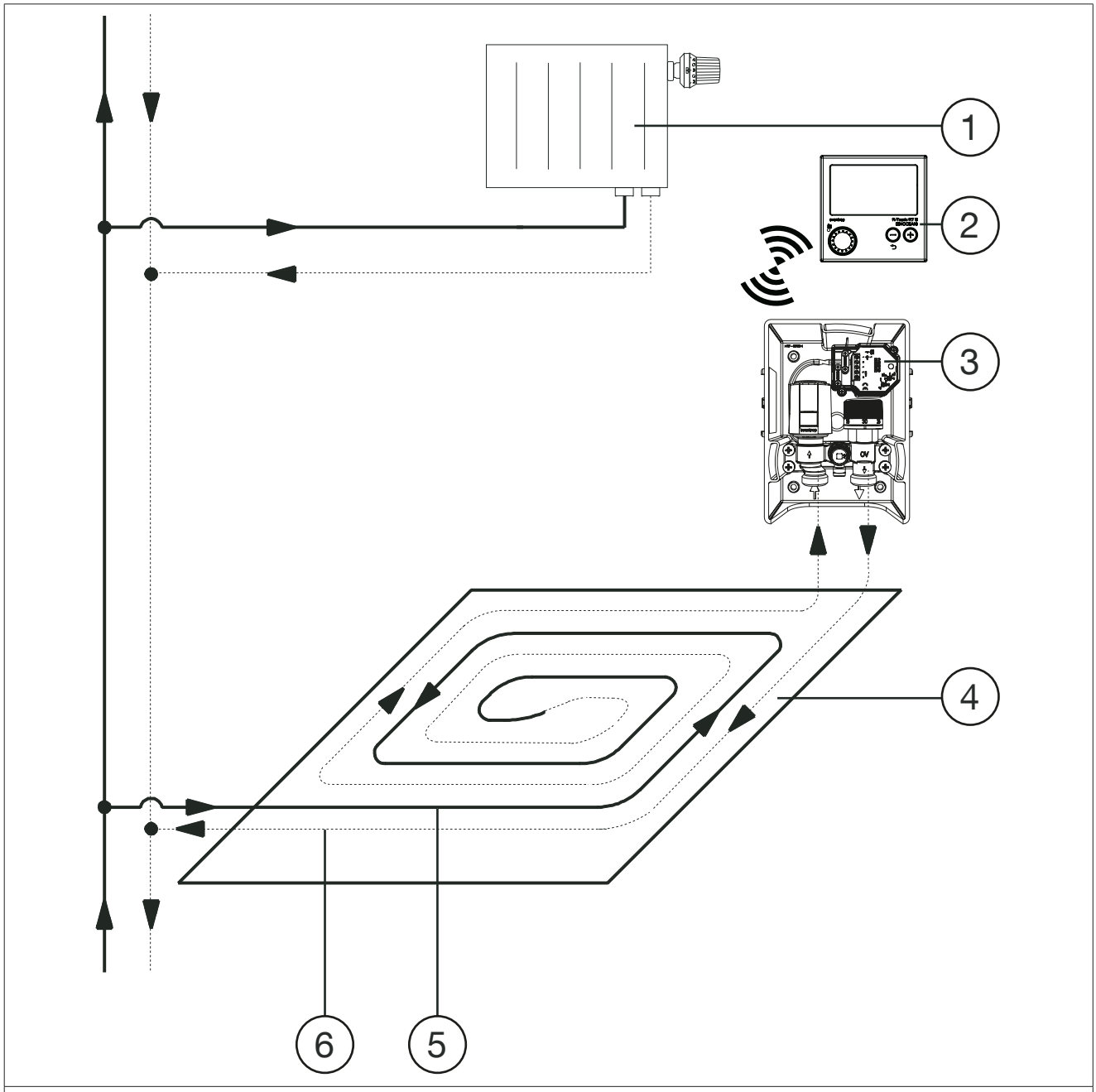
The “Unibox TQ-RTL R-Tronic” is used for individual room temperature control and for return temperature limitation in a surface temperature regulation system.

The integrated infinitely adjustable, diaphragm controlled and differential pressure independent valve insert “QA” allows for an automatic flow control (hydronic balancing) of the surface temperature regulation system. The flow control unit integrated in the valve insert maintains the differential pressure at a constant level via the presetting and regulating cross-section of the valve.

The installation position of the “Unibox TQ-RTL R-Tronic” has to be chosen so that heating fluid passes first through the heating circuit and then through the valve of the “Unibox TQ-RTL R-Tronic”. On its way from the entry into the heating surface to the “Unibox TQ-RTL R-Tronic”, the heating fluid cools down.

You can set the desired room temperature by modifying the nominal temperature at the wireless thermostat “R-Tronic”. The wireless thermostat “R-Tronic” communicates with the wireless receiver “R-Con FBH”. Flow control is carried out by the actuator connected to the wireless receiver “R-Con FBH”.

1.2 Connection



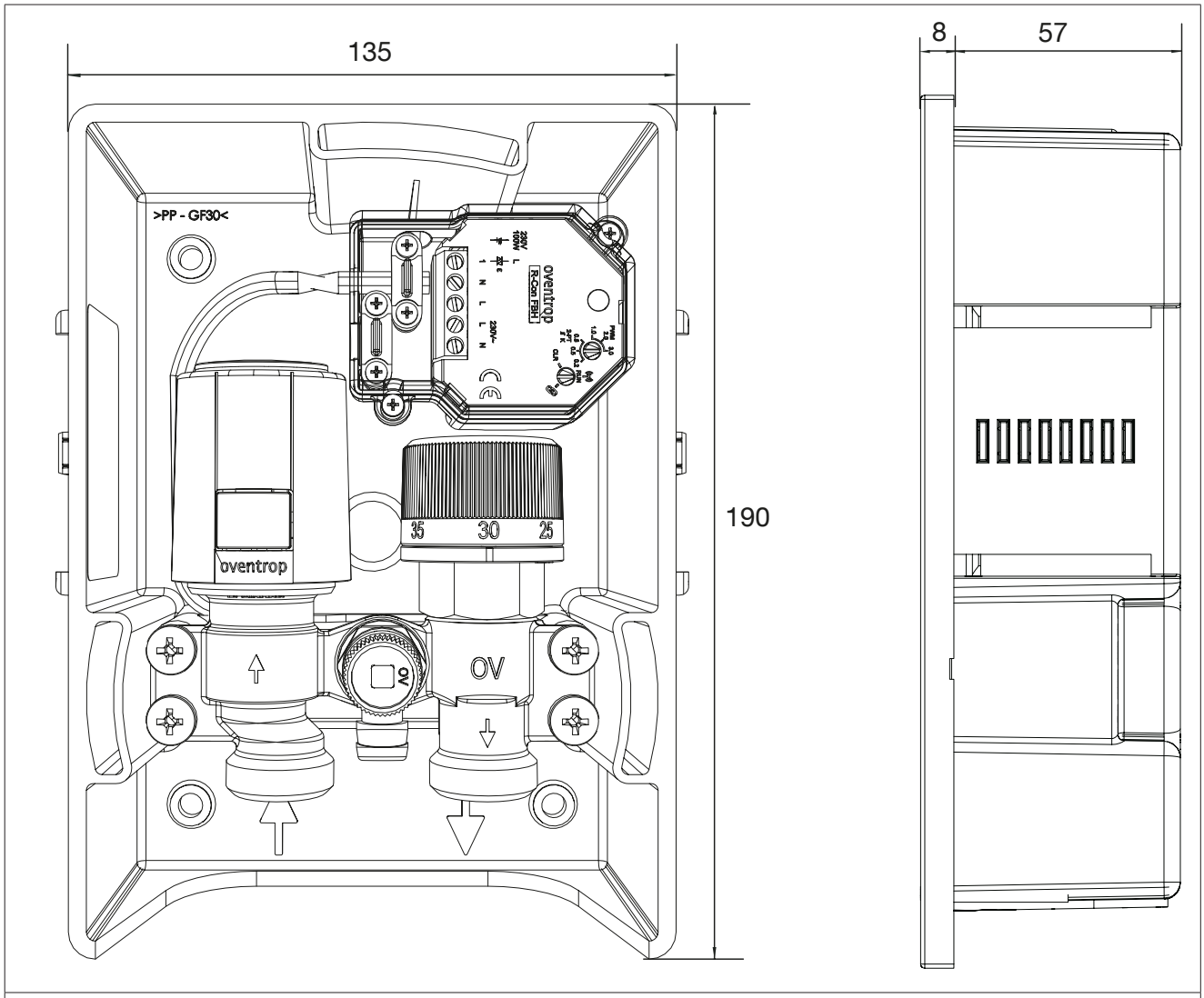
Illust. 1: Connection

(1)	Radiator
(2)	Wireless thermostat “R-Tronic”
(3)	“Unibox TQ-RTL R-Tronic”
(4)	Surface temperature regulation circuit
(5)	Supply
(6)	Return

1.3 Technical data

General information	
Ambient temperature	0 °C to 50°C, not condensing
Fluid	Water, mixtures of water and glycol
Max. operating pressure p_S	10 bar
Installation depth	57 mm
Actuator connection thread	M30x1.5
Type of construction	independently mounted electronic control unit
Type of connection	Type X
Permissible cable cross-section	0.5 – 4.0mm², stripping 5-6mm
Operation mode	Type1.Y
Software class	A
Pollution degree	2
Rated surge voltage	2500V
Temperature for ball pressure test	125°C
R CON FBH	
Transmission frequency	868 MHZ
Power supply	230V / 50-60 Hz
Protection	IP 20

1.3.1 Dimensions



Illust. 2: Dimensions “Unibox TQ-RTL R-Tronic” in mm (front and side view)

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