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Room and return temperature control “Unibox T-RTL”

Data sheet

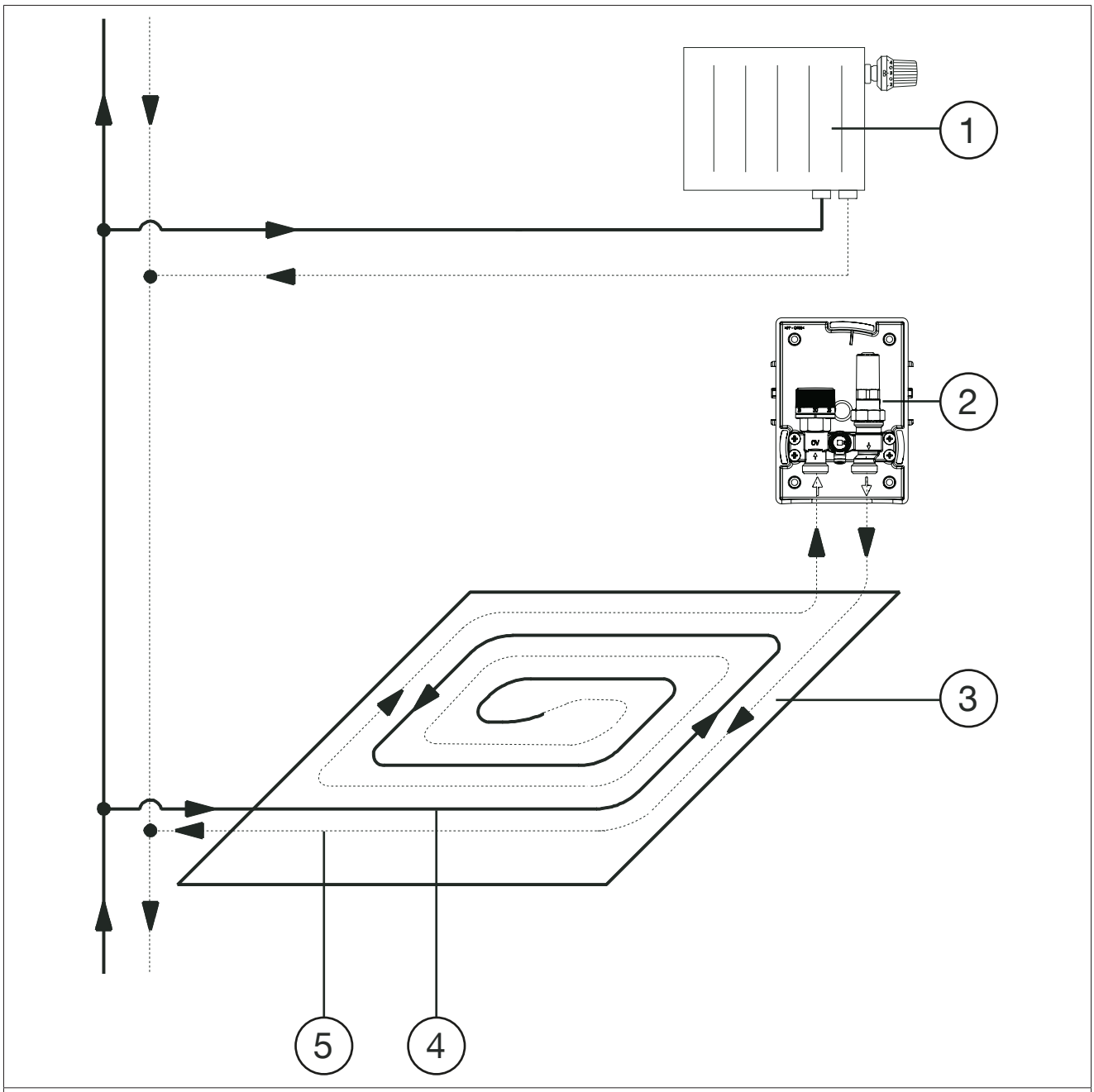
1. Functional description

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

The integrated thermostatic valve is equipped with a presettable valve insert and thus enables the volume flow to be accurately adapted to the required heat demand (see chart in the appendix) and hydronic balancing to be carried out.

The installation position of the “Unibox T-RTL” has to be chosen so that heating fluid passes first through the heating circuit and then through the valve of the “Unibox T-RTL”. On its way from the entry into the heating surface to the “Unibox T-RTL”, the heating fluid cools down. The flow rate is controlled by the sensor element being in touch with the heating fluid. The automatic thermostat controls the desired room temperature. You can modify the surface temperature by turning the handwheel of the return temperature limiter. You can set the desired room temperature by turning the handgrip of the automatic thermostat.

1.1 Connection



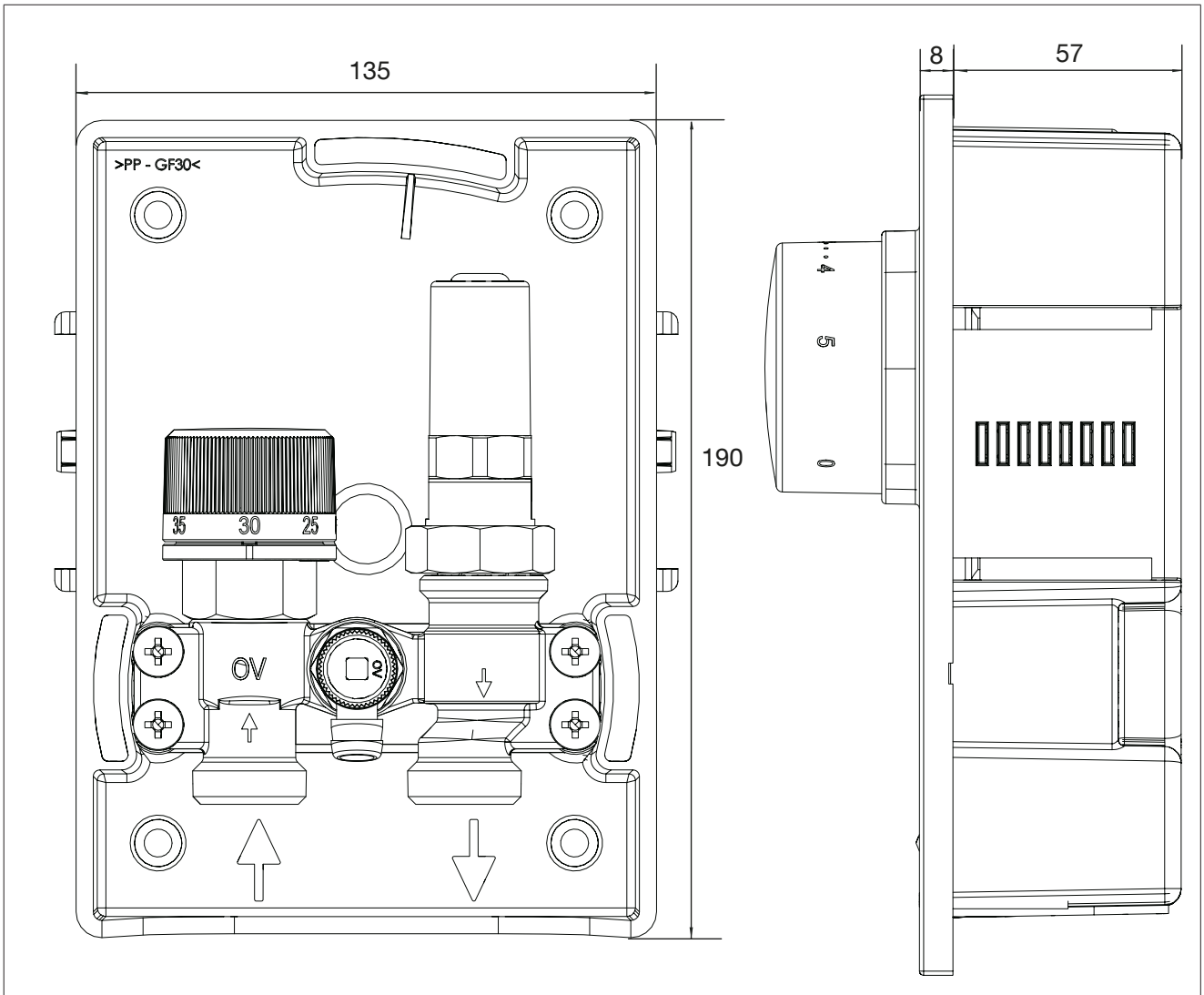
Illust. 1: Connection

(1)	Radiator
(2)	“Unibox T-RTL”
(3)	Surface temperature regulation circuit
(4)	Supply
(5)	Return

1.2 Technical data

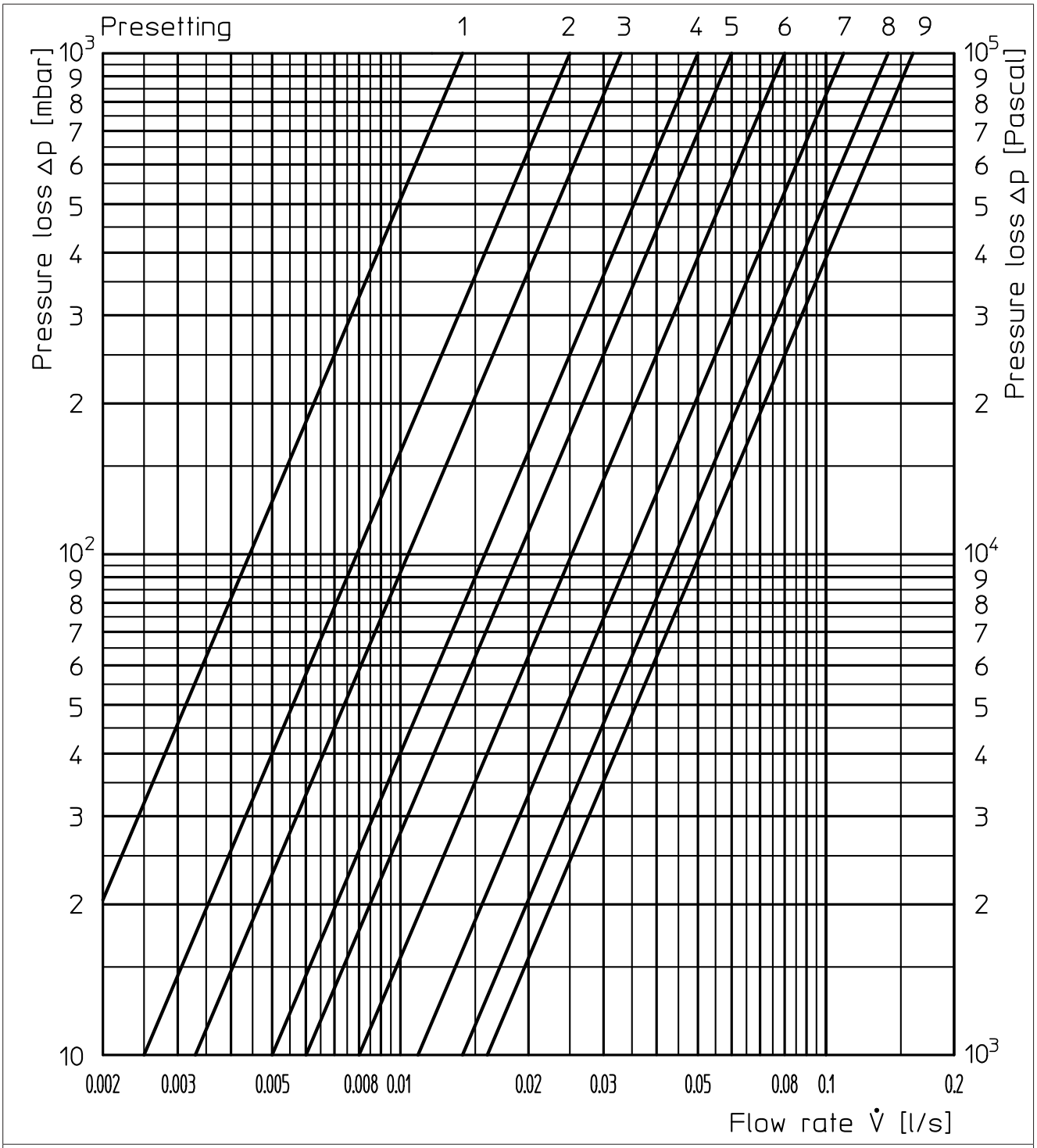
Max. operating temperature t_S	100°C
Max. operating pressure p_S	10 bar
Max. differential pressure	1 bar
Installation depth	57 mm
Thermostat connection thread	M30x1.5
Fluid	Water, mixtures of water and glycol

1.2.1 Dimensions



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

2. Characteristic lines



Illust. 3: Pressure loss chart “Unibox T-RTL” with valve insert “AV 9” at 2 K P-deviation, RTL fully open

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