oventrop

Valves, controls + systems

EN

Return temperature control “Unibox E RTL”

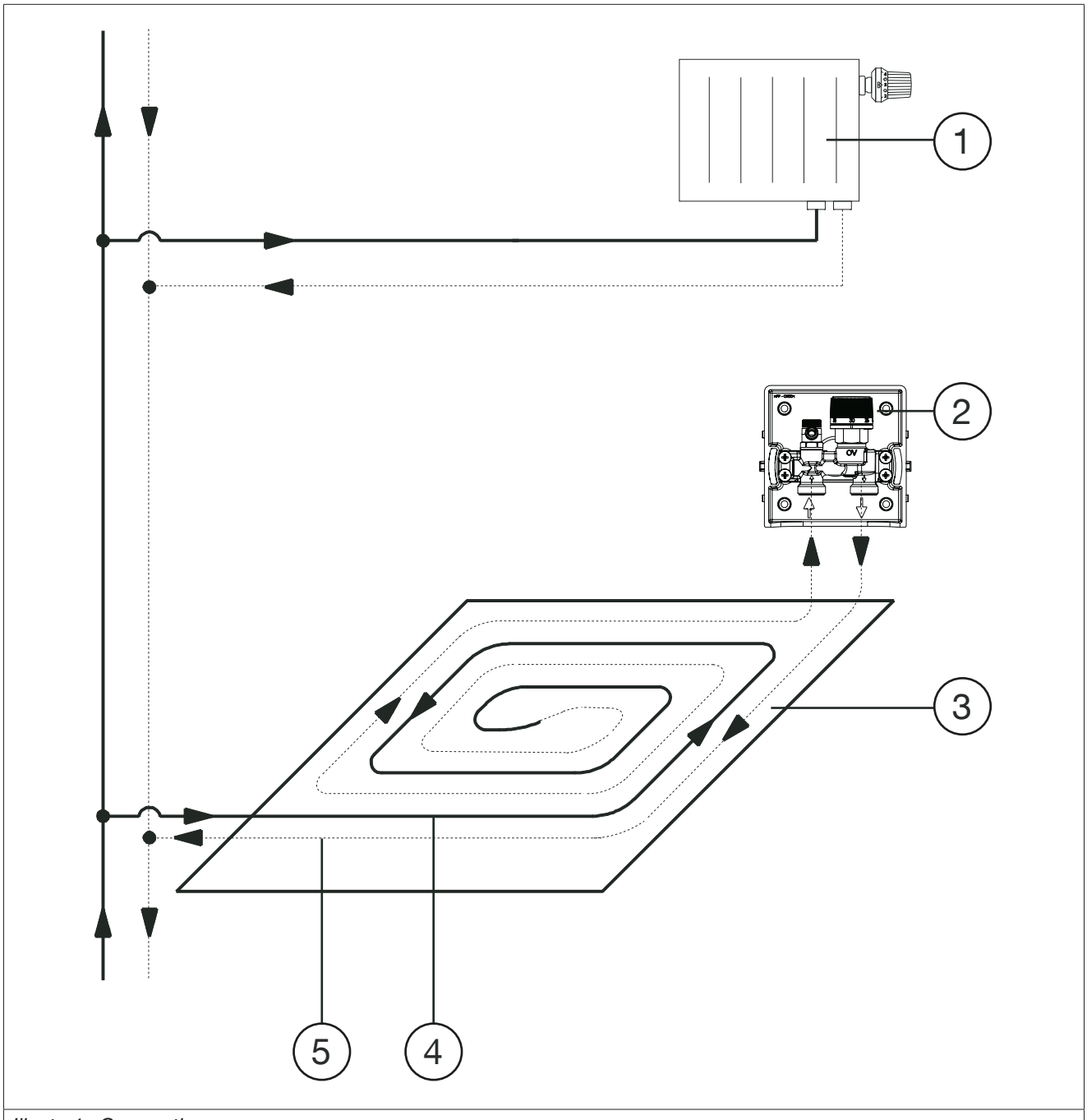
Data sheet

1. Functional description

The “Unibox E RTL” is used for return temperature limitation in a surface temperature regulation system. The installation position of the “Unibox E RTL” has to be chosen so that heating fluid passes first through the heating circuit and then through the valve of the “Unibox E RTL”. On its way from the entry into the heating surface to the “Unibox E RTL”, the heating fluid cools down. The flow rate is automatically controlled by the valve with integrated return temperature limiter. The return temperature is set at the handwheel. You can modify the surface temperature by turning the handwheel.

	Normally, the “Unibox E RTL” is operated in a room with an additional radiator. The surface temperature regulation circuit covers the basic heat demand whereas the radiator takes over the control of the room temperature.

1.1 Connection



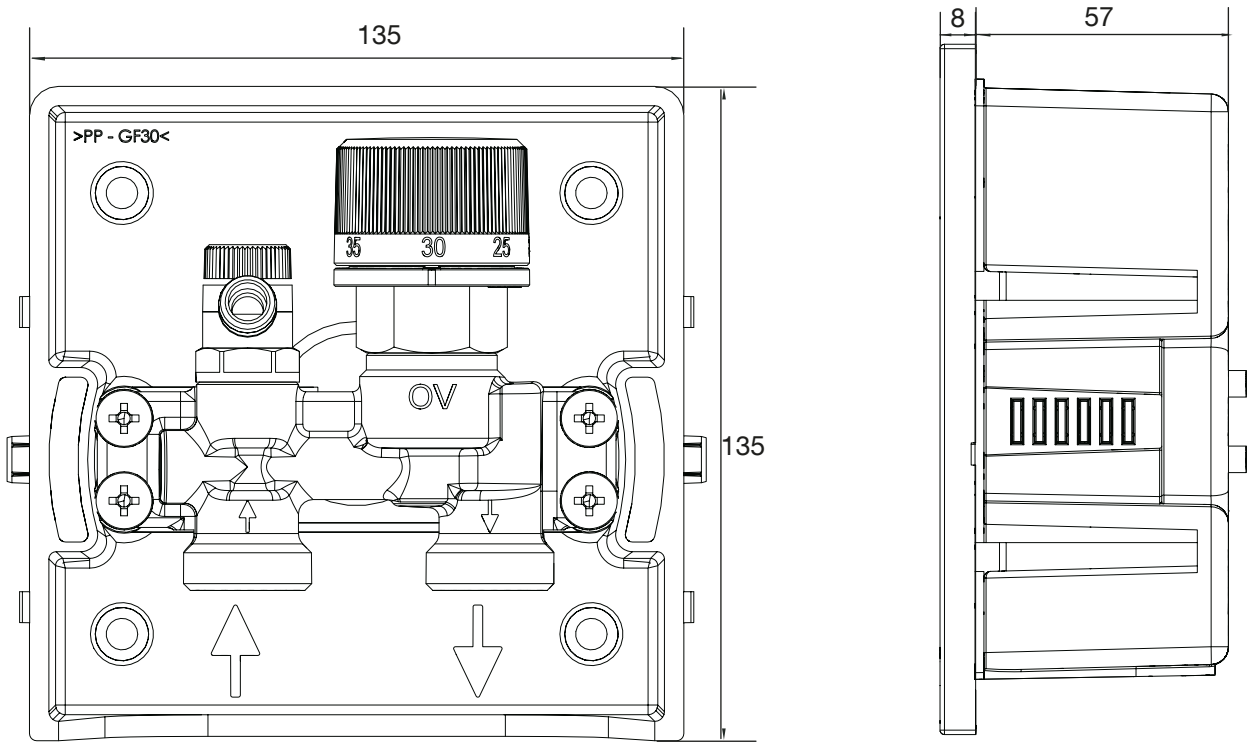
Illustr. 1: Connection

(1)	Radiator
(2)	“Unibox E RTL”
(3)	Surface temperature balance circuit
(4)	Supply
(5)	Return

1.2 Technical data

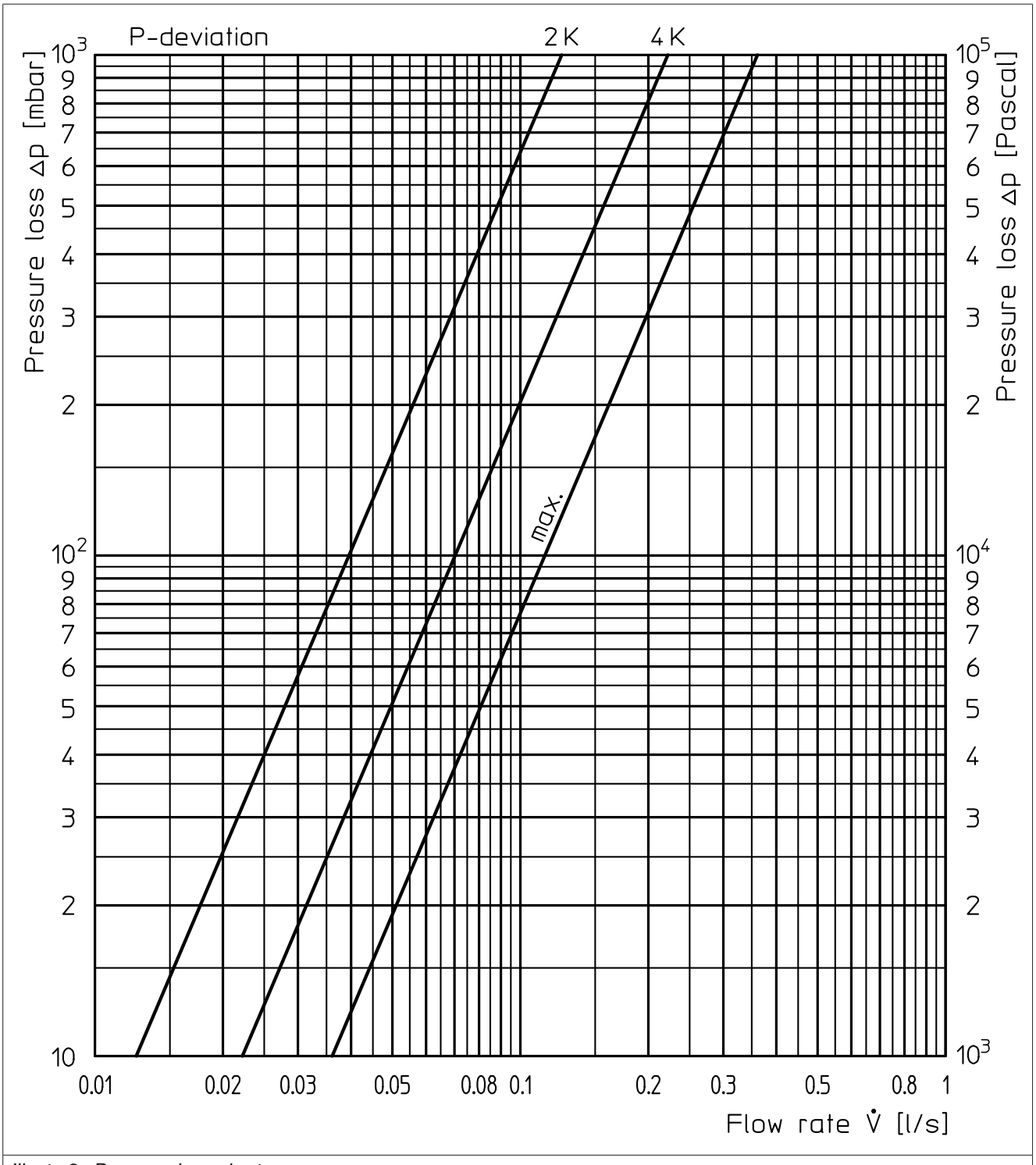
Max. operating temperature t_S	100°C
Max. operating pressure p_S	10 bar
Max. differential pressure	1 bar
Installation depth	57 mm
Fluid	Water, mixtures of water and glycol

1.2.1 Dimensions



Illustr. 2: Dimensions “Unibox E RTL” in mm (front and side view)

2. Characteristic lines



Illustr. 3: Pressure loss chart

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