



Room and return temperature control  
“Unibox TQ-RTL”  
**Data sheet**





## 1. Functional description

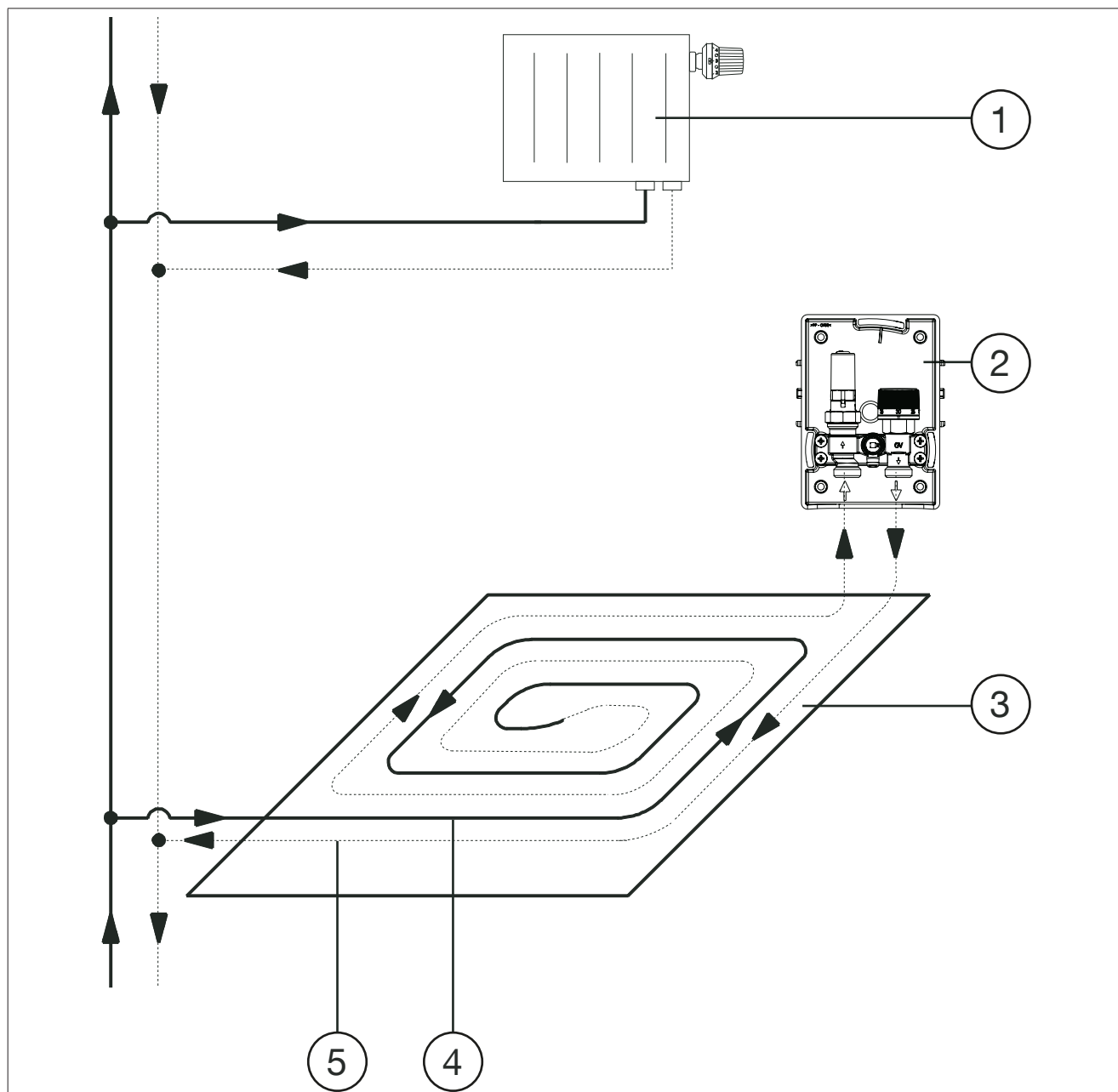
### 1.1 Functional description

The “Unibox TQ-RTL” 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 (hydraulic 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” has to be chosen so that heating fluid passes first through the heating circuit and then through the valve of the “Unibox TQ-RTL”. On its way from the entry into the heating surface to the “Unibox TQ-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.

## 1.2 Connection



Illust. 1: Connection

|     |                                        |
|-----|----------------------------------------|
| (1) | Radiator                               |
| (2) | "Unibox TQ-RTL"                        |
| (3) | Surface temperature regulation circuit |
| (4) | Supply                                 |
| (5) | Return                                 |

### 1.3 Technical data

|                                                    |                                     |
|----------------------------------------------------|-------------------------------------|
| <b>Max. operating temperature <math>t_s</math></b> | 100°C                               |
| <b>Max. operating pressure <math>p_s</math></b>    | 10 bar                              |
| <b>Control range</b>                               | 10 - 170 l/h                        |
| <b>Installation depth</b>                          | 57 mm                               |
| <b>Thermostat connection thread</b>                | M30x1.5                             |
| <b>Fluid</b>                                       | Water, mixtures of water and glycol |

#### 1.3.1 Dimensions

