

Air temperature control WHST 300 T38 for warm water heating elements.

- For the air heating control of warm water heating elements with smaller outputs up to approx. 5.5 kW and flow rates up to 300 l/h.
- Ideal addition for ventilation units with heat recovery and PWW post-heater as well as for warm water heating elements WHR 100 up to WHR 200.
- Simple, cost-effective and quick-to-install solution.

■ Description/Application

- WHST 300 T38 consists of a thermostat with remote adjustment and remote sensor and it is suitable for systems where the water pressure of the heating circuit can provide this application. The proportional controller, which works like a conventional heating valve and without auxiliary electrical energy, is continuously variable and changes the temperature by varying the heating water flow rate.

■ Control options

- Control options by changing the heating water flow rate:
- **Constant supply air temperature control** by positioning the capillary tube sensor in the air flow.
 - **Constant room air temperature control** by positioning the capillary tube sensor in the room.
 - **Optional limitation of the temperature range** by defining a minimum and maximum value.
 - **Frost protection position** reacts at +8 °C.

■ Scope of delivery

- Complete set, includes
- Thermostat for room installation
 - Straight-way valve
 - Set piston
 - Capillary tube remote sensor
 - Mounting material

■ Installation instructions

- The capillary tube should be laid so that it is not kinked or flattened. For a constant room temperature, the remote sensor should be installed at a point in the room where the desired temperature conditions prevail.

■ Design

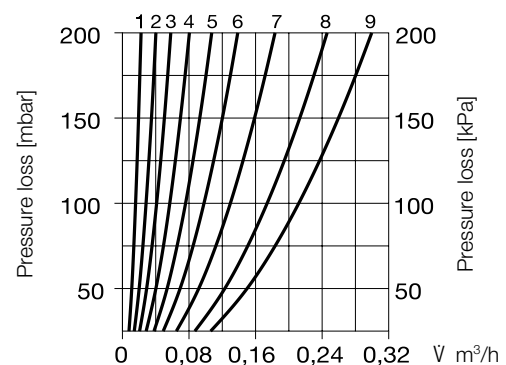
- The WHST 300 T38 control can be used for heating elements up to 300 l/h water flow rate. The pressure loss to be overcome for dimensioning the on-site pump results from the sum of Δp heating element, Δp valve (see diagram) and Δp duct system.

■ Technical data

Type	WHST 300 T38
Ref. no.	08817
Max. operating pressure	10 bar
Max. operating temperature	120 °C
Connection DN 20	3/4"
Max. flow rate	300 l/h
Differential pressure influence	0.4 K/0.5 bar
Setpoint range (thermostat)	8–38 °C
Dimensions in mm	
– Thermostat	W 80 x H 80 x D 50
– Remote sensor	W 35 x H 85 x D 30
Connection thread DN 20	G 3/4"
Capillary tube length	5 m
Weight (complete)	0.5 kg

Valve pressure loss

*Valve position



* Note: The valve is delivered ex works in position 9. It can be variably adjusted between 1 and 9 to optimise the control behaviour for smaller water volumes.

■ Reference

Air temp. control for warm water heating element WHR. For constant supply air temp. in the range from 20–50 °C
WHST 300 T50
(see page 171) No. 08820