

Tender specification:

Control unit DN 25 for local flow temperature control of surface heating systems depending on the outside temperature in combination with Oventrop stainless steel distributors/collectors. Consisting of:

- Three-way diverting valve
 - Check valve, pipe contact safety switch as protection against excess temperature
 - Electronically controlled high-efficiency pump or pump
- Pre-assembled and leak tested.
- Angle pattern adapter
 - Electromotive actuator
 - Heating circuit controller “Regtronic”

Technical data:

Max. operating pressure p_S :	6 bar
Max. differential pressure:	0.75 bar
Max. operating temperature t_S :	
Primary side:	90 °C
Secondary side:	50 °C
Temperature range electric pipe contact safety switch:	20-90 °C
k_{VS} value:	4
Performance range:	up to 15 kW or up to 200 m ² heating surface with a heat demand of 75 W/m ²

Fluid: Non-aggressive fluids (e.g. water and suitable water and glycol mixtures according to VDI 2035). Not suitable for steam, oily and aggressive fluids.

Models:

with high-efficiency pump Wilo-Yonos PARA 15/6 and heating circuit controller “Regtronic RH”	Item no.: 1151800
with Wilo pump E15/1-5 and heating circuit controller “Regtronic EH”, export model, only for sales outside the European Union	1151500

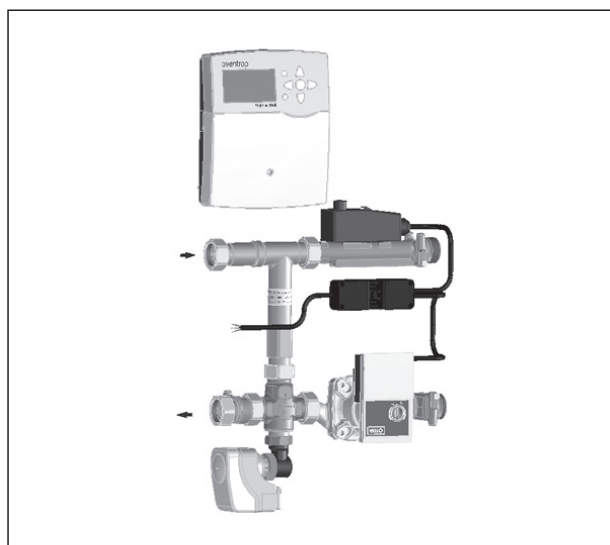
Description and function:

The control unit “Regufloor HW” is used for constant flow temperature control in surface heating systems.

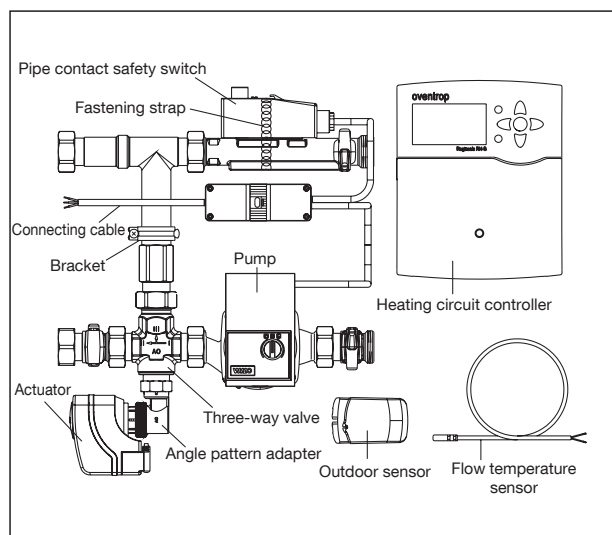
Flow temperature control is carried out weather guided, i.e. depending on the outside temperature up to an adjustable maximum value. This way, the maximum permissible flow temperature (e.g. 45 °C) for the surface heating can be maintained. The heating circuit controller “Regtronic” of the control unit “Regufloor HW” controls the position of the three-way valve via an electromotive actuator and thus the flow temperature, depending on the outside temperature detected by the outdoor sensor and the set heating curve. The pump control is weather guided, i.e. it is switched on during heat demand and operation of frost protection.

The automatic pump control steadily adjusts the pump output to the current hot water demand.

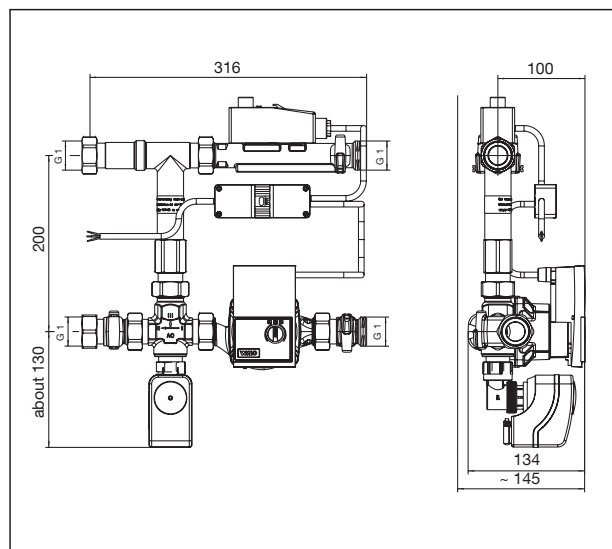
The electric pipe contact safety switch is preset to 60 °C and protects the surface heating circuit from inadmissible high temperatures by switching the pump off if the set temperature is exceeded. If the set temperature is undercut, the pump is switched on again.



“Regufloor HW”



Summary



Dimensions

Dimensions/Connection sizes:

The installation depth of the control station inside the cabinet amounts to approx. 145 mm from the leading edge of the pump head to the rear wall of the cabinet (fixing rails have been taken into account), see illustr. “Dimensions” on page 1. This installation depth has to be taken into account when installing the cabinet (pull out the frame accordingly).

Installation advice:

The correct flow direction must be observed when connecting the control unit to the stainless steel distributor/collector, see illustr. “Flow direction” on the right hand side.

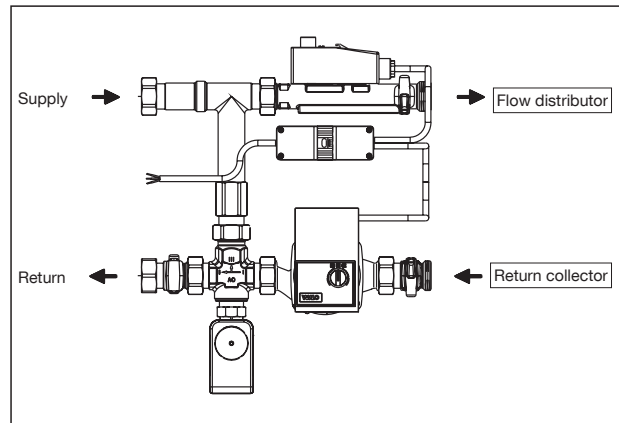
The supply at the control unit is always located at the top and the return at the bottom.

The control unit is supplied for left hand side connection. For right hand side connection, turn the pump accordingly.

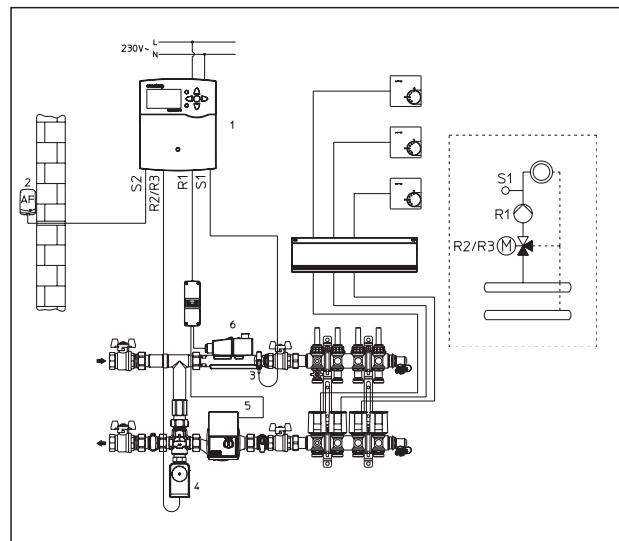
To mount the actuator, remove the protection cap of the three-way valve. Screw the electromotive actuator onto the three-way valve using the angle pattern adapter. The threaded connection of the adapter should point forward.

The heating circuit controller is fixed into the cabinet with the help of the enclosed fixing plate (only for item no. 1151800).

Connection summary (see illustr. on the right hand side) of the components with the heating circuit controller (summary: one variable temperature heating circuit).



Flow direction



Connection summary of the components
(one variable temperature heating circuit)

- 1 = “Regtronic RH” Heating circuit controller
- S1 = Flow temperature sensor variable temperature heating circuit (3)
- S2 = Outdoor sensor AF (2)
- R2/R3 = Actuator mixing valve (4)
- R1 = Pump variable temperature heating circuit (5)
- 6 = “Regufloor HW” (“Regtronic RH” included)

Subject to technical modifications without notice.

Product range 2
ti 230-EN/10/MW
Edition 2017