

Regufloor HN24 / HW24

Control station for surface heating systems

Fixed setpoint or weather-compensated control



The Regufloor is a decentralised control station for the connection to heating circuit manifolds.

Pre-assembled and tested control station with Wilo Para 15-130/6-43/SC-12 pump, three-way valve, check valve and electric pipe contact safety switch to limit the maximum flow temperature. The flow temperature control is either fixed setpoint controlled via a temperature controller with contact sensor (Regufloor HN24) or weather-compensated via a motorised actuator with heating circuit controller (Regufloor HW24).

Functions

- Control of the flow temperature to surface heating-compatible temperatures
- Fixed setpoint flow temperature control (Regufloor HN24)
- Weather-compensated flow temperature control (Regufloor HW24)
- Limitation of the maximum flow temperature

Features

- + Decentralised installation in a cabinet
- + Compact design, ideal for retrofitting existing buildings with surface heating

Product Details

Technical Data

Nominal size	DN 25
Operating temperature	
Primary side	Max. 90 °C
Secondary side	Max. 50 °C
Operating pressure	PN 6
Media	Heating water according to VDI 2035 or ÖNORM 5195 Water-glycol mixtures with max. 50% glycol content Not suitable for vapour, oily and aggressive media
Kvs value	3.7
Setting range	Temperature controller (Regufloor HN24): 20-50 °C Electric pipe contact safety switch: 20-90 °C

Functions

The Regufloor HN24 control station is used for constant flow temperature control for surface heating systems and consists of the following components:

- Three-way valve
- High-efficiency pump
- Temperature controller working without auxiliary energy
- Check valve
- Electric pipe contact safety switch

The three-way valve has one inlet (AB) and two outlets (A and B). Depending on the position of the control sleeve, the medium flowing through is diverted from one inlet to the other or divided between the outlets in intermediate positions. When the spindle is pushed in, outlet A is open. When the spindle is in the opposite position, outlet B is open.

The temperature controller 20-50 °C with contact sensor works without auxiliary energy and allows intermediate positions. When the temperature at the supply rises, outlet B is closed and no more high-temperature supply water can flow in.

The electric pipe contact safety switch is preset to a temperature of 60 °C and protects the surface heating circuit from impermissibly high temperatures by switching off the pump if this temperature is exceeded. If the temperature falls below the set value again, the pump is switched on again.

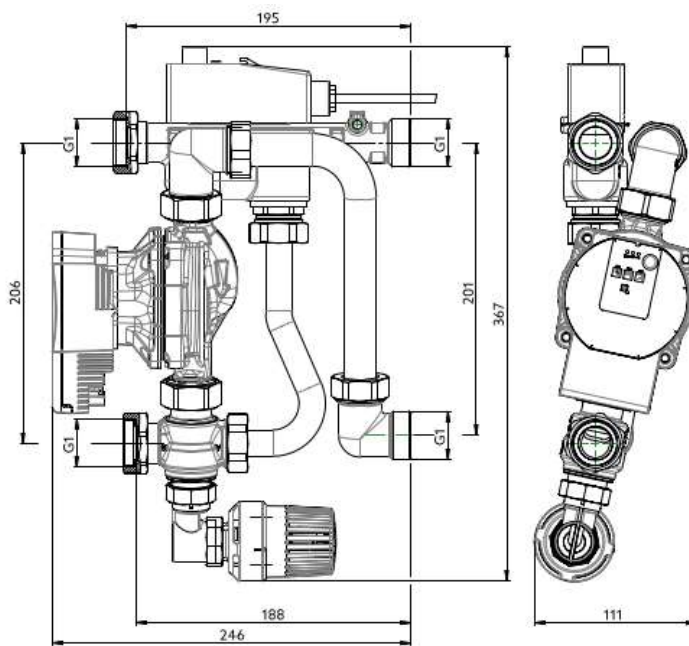
Complementary for Regufloor HW24

Instead of a temperature controller that works without auxiliary energy, the Regufloor HW24 is equipped with a motorised 230 V actuator for floating control. This actuator is controlled by the Regtronic RH weather-compensated heating circuit controller, which is included in the scope of delivery. This means that the temperature control is carried out depending on the outside temperature.

Conversion from Regufloor HN24 to Regufloor HW24

The Regufloor HN24 can be upgraded to a weather-compensated temperature control by adding a motorised actuator for floating control and the Regtronic RH heating circuit controller. Both items can be found in the accessories section.

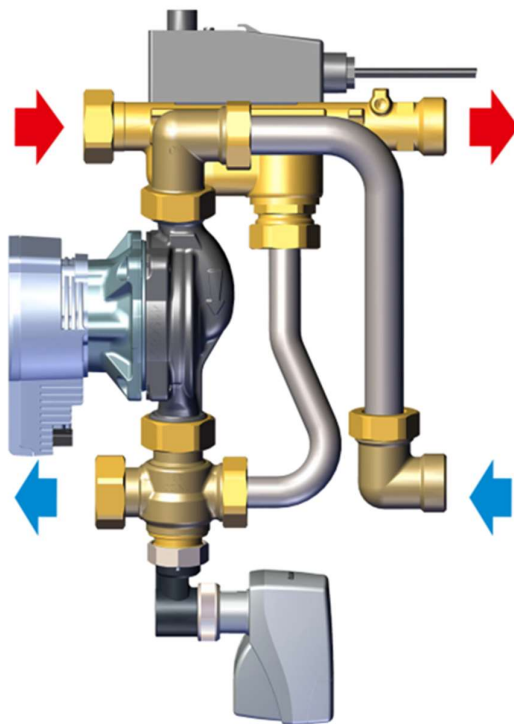
Dimensions



The installation depth of the control station inside the cabinet is approx. 111 mm from the front edge of the pump housing to the rear wall of the cabinet. This already includes the fastening rails.

When mounting, the installation depth for the raw installation must be observed, as the shell box may need to be inserted a little deeper. The adjustment is made via the frame of the flap, which can be adjusted in depth.


Mounting instructions



When mounting the control station to the heating circuit manifold, the correct flow direction must be ensured. The control station's supply is always at the top. Accordingly, the control station's return is always at the bottom. The control station is designed for left-hand side connection (manifold on the right, see Fig.). Right-hand side connection is possible and described in the operating instructions.


Item Numbers

Control stations


		Control	Designation	Item no.
	Regufloor Decentralised control station for flow temperature control of heating circuit manifolds	Fixed setpoint	Regufloor HN24	1151601
		Weather-compensated	Regufloor HW24	1151801

Accessories


Temperature controller

		Suitable for	Artikel-Nr.
	Control range 20...50 °C, with contact sensor. Connection thread M30 x 1.5	1151601	1151082


High-efficiency pump

		Suitable for	Item no.
	Wilos Yonos PARA RS 15/6 Without pump cable. For control stations Regufloor HN24 / HW / HW24 / HC and H	1151601 1151801	1151088

Motorised actuator

		Suitable for	Item no.
	Aktor M 230 V AC, on/off or floating control, for weather-compensated control Required for converting from Regufloor HN24 to Regufloor HW24.	1151801	1012729

Heating circuit controller

		Suitable for	Item no.
	Regtronic RH Weather-compensated heating circuit controller Required for converting from Regufloor HN24 to Regufloor HW24.	1151801	1152083