

PRE-ASSEMBLED THERMOSTATIC REGULATING UNIT

Application

The function of the **te-sa Art. 249N** thermostatic set point adjustment unit is to distribute the heat transfer fluid to low-temperature radiant panel heating systems.

Compact dimensions and connection via O-ring seal eccentric unions make the unit versatile, easy to install and combinable with most commercially available distribution manifolds.

The unit consists of upper and lower pump connections, circulator, 65°C safety thermostat, thermometers, valve and lockshield for the connection at the primary circuit, thermostatic head with remote temperature sensor.

The unit is supplied fully pre-assembled with electronic variable speed circulator in energy efficiency class A, prewired in electrical connection box with the safety thermostat.



Technical features

Forged brass components:	Brass UNI EN12165 CW617N
Machined brass components:	Brass UNI EN12164 CW617N
Gaskets and O-rings:	EDPM
Suitable for fluids:	Water, glycol solutions
Max. glycol percentage:	30%
Adjustment temperature range:	20÷65°C
Max. operating pressure:	6 bar
Primary inlet max. temperature:	90°C
Thermometer scale:	0÷80°C

Dimensions

Main connections:	3/4" F or 1" F
Connections to manifold:	1" M
Secondary connection centre distance:	from 185 to 238 mm
Pump centre distance:	130 mm
Pump connections:	1-1/2" with swivel nut

Thermostatic control

Thermostatic sensor type:	Remote with Liquid
Temperature adjustment range:	20°C ÷ 65°C
Hysteresis:	0,6 K

Circulator pump

Type:	Wilo Para 25/7
Ambient temperature:	max. 40 °C
Mains power:	1~230 V - 50 Hz
Operating pressure:	max. 10 bar
Fluid temperature range:	from -10 °C to 110 °C
Protection grade:	IP44
Threaded connections:	G 1-1/2"

Safety thermostat

Trigger temperature:	65°C ± 3K
Contact capacity:	10 A / 240V AC
Protection grade:	IP55

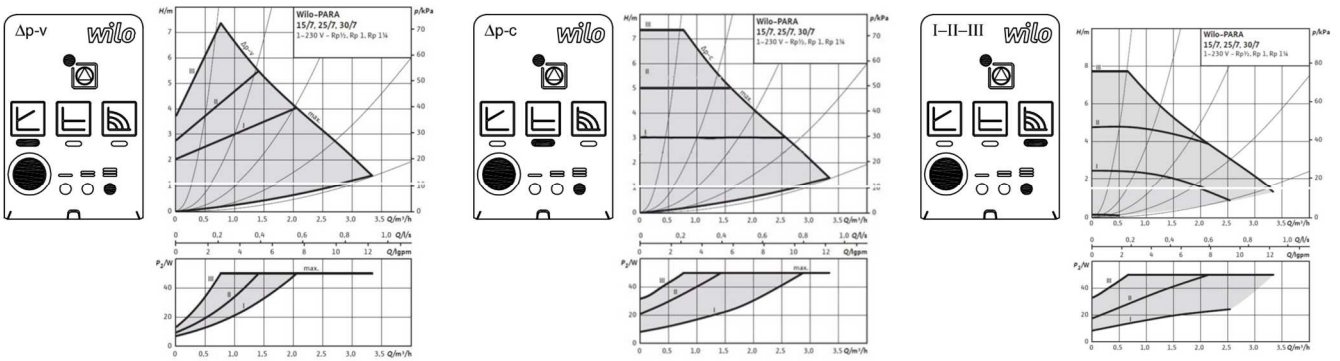
PRODUCTS RANGE:

Art. 249N-065	Set-point adjustment unit 1"x3/4" with electronic circulator Wilo Para 25/7
Art. 249N-066	Set-point adjustment unit 1"x1" with electronic circulator Wilo Para 25/7

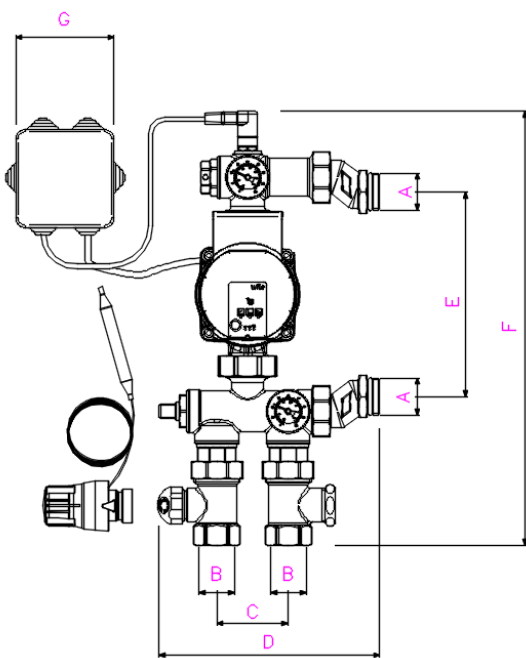
Art. 249N-065-WP	Set-point adjustment unit 1"x3/4" supplied without circulator
Art. 249N-066-WP	Set-point adjustment unit 1"x1" supplied without circulator

Circulator performance

The pump is controlled by pressing the green button located on front. Each push change control mode and circulator speed.

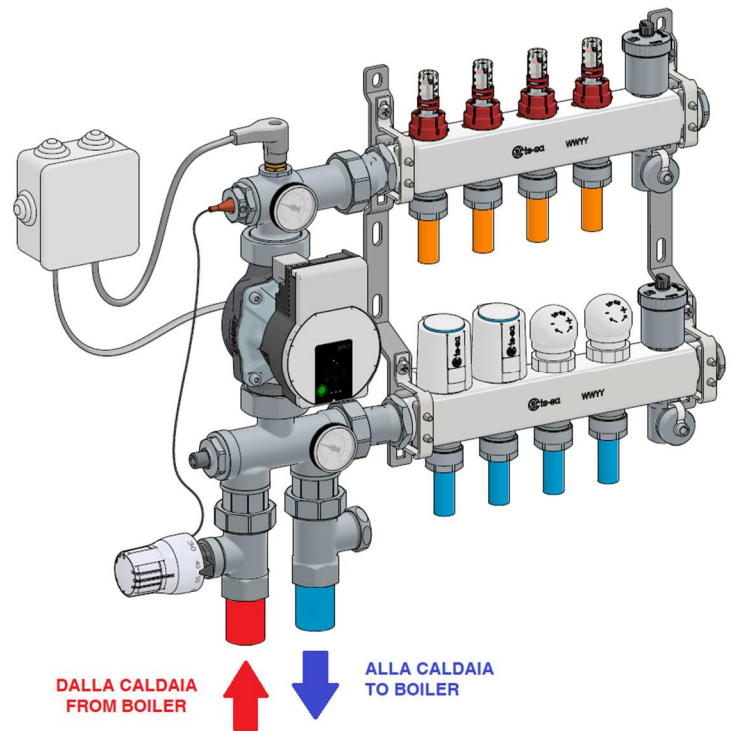


Dimensions



Art.	A	B	C	D	E	F	G
249N-065	1" M	3/4" F	64	200	185+238	374	88
249N-066	1" M	1" F	64	200	185+238	390	88

Installation diagram



Electrical connection

The unit is supplied prewired except for the power supply and for the room temperature thermostat that are connected on-site. Electrical power supply: 230V 50Hz.

- Terminal 1: Ground connection
- Terminal 2: Neutral line
- Terminal 3: Phase line
- Terminals 5 & 6: Room thermostat

