

SET-POINT ADJUSTMENT UNIT

Application

The function of the **te-sa** series **250N** set-point adjustment unit is to distribute the heat transfer fluid to low-temperature radiant underfloor heating systems.

Compact dimensions and connection with eccentric union pieces equipped with O-Ring seal, make the unit versatile, easy to install and combinable with most commercially available distribution manifolds.

The unit consists of pump connections, electronic circulator, safety thermostat 65°C, thermometer, regulation valve and lockshield, thermostatic head.

The unit is supplied totally pre-assembled with variable-speed circulator in energy efficiency class A, combining to the thermal comfort given by the control unit also the saving energy.



Technical specifications

Forged brass components:	Brass UNI EN 12165 CW617N
Machined brass components:	Brass UNI EN 12164 CW617N
Gaskets and O-ring:	EDPM
Suitable for fluids:	Water, glycol solutions
Max. glycol percentage:	30%
Adjustment 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:	1½" with swivel nut

Thermostatic control

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

Circulator pump

Body material:	EN-GJL-200
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 1½"

Safety thermostat

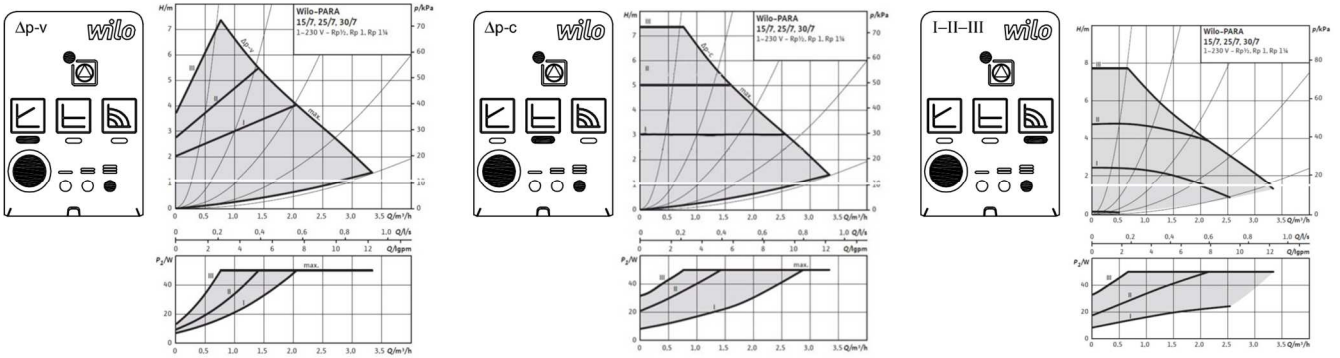
Trigger temperature:	65°C +/- 3K
Contact capacity:	10 A / 240V AC
Protection grade:	IP55

PRODUCTS RANGE:

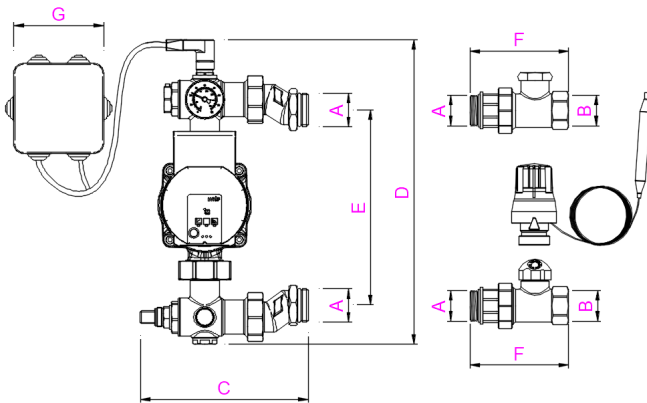
Art. 250N-065	Set-point adjustment unit 1"x3/4" with electronic circulator Wilo Para 25/7
Art. 250N-066	Set-point adjustment unit 1"x1" with electronic circulator Wilo Para 25/7

Circulator performance

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



Dimensions



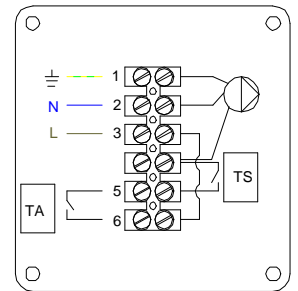
Art.	A	B	C	D	E	F	G
250N-065	1" M	3/4" F	170	300	185+238	90	88
250N-066	1" M	1" F	170	300	185+238	106	88

Electric wiring

The unit is supplied pre-wired except for the power supply and ambient temperature thermostat control which are connected on-site.

Electrical power supply: 230V 50Hz.

- Terminal 1: Ground
- Terminal 2: Neutral
- Terminal 3: Line
- Terminal 5 & 6: Room thermostat



Functioning scheme

