

FL50 Flow Controller

For Underfloor Heating Systems



The FL50 flow controller regulates the water temperature by mixing hot water from the boiler with cooler water from the return manifold.

- **Economic and safe setting of flow temperature**
- **Set and forget, no power or wiring needed**
- **Easy to install and commission**



FL50 Flow Controller

Features

- Mixes boiler water with return
- Designed for mounting on manifold
- Self-acting control
- Liquid-filled sensor
- Range limiting

Equipped with a liquid-fill sensor with 1.5m capillary, frost protection and range limiting. Supplied with thermal sleeve, strap and thermal paste.

The FL50 has an energy-save button at 35°C which needs to be pressed if higher temperatures are selected.

Compatible Ondatherm valves:

D½" - KV Straight ½", Kvs = 1.8, M38 x 1.5

D¾" - KV Straight ¾", Kvs = 5.2, M38 x 1.5

- Nickel-plated body
- Closing distance 14mm

Technical Data

Temperature setting range	+20 to 50°C	
Maximum sensor temperature	-20 to 60°C	
Maximum medium temperature	120°C	
Nominal pressure	10 bar	
Maximum differential pressure	1/2"	3/4"
	0.95	0.45
Length of capillary	1.50m	
Hysteresis	0.3K	
Stroke	0.19mm/K	
Sensor length	160mm ø11	

Typical setting values

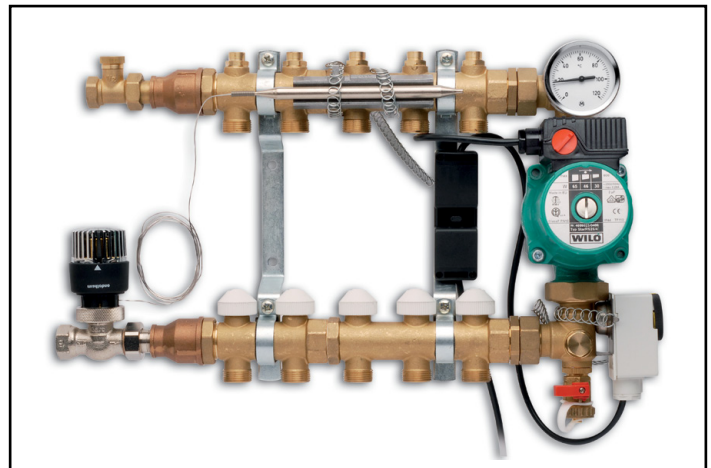
Outside Temp °C	+20	+15	+10	+5	0	-5	-10	-15	-20
FL50 Setting	25	28	31	34	37	40	43	47	50

invenSYS
Controls

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FL50 Flow-control	Tech Character	Part Number
FL50 Head	20-50°C	0100 0000 2778 10
D ½" - KV Valve	Kvs 1.8	0100 0021 1715 10
D ¾" - KV Valve	Kvs 5.2	0100 0021 1720 10

FL50 mounted on MSV manifold



FL50 Setting position with energy-save button



Ondatherm Valve

Available from: