CALEFFI
Hydronic Solutions

Electronic mixing valve with programmable thermal disinfection 6000 series - LEGIOMIX

Function

The electronic mixing valve is used in central systems for production of hot water for sanitary purposes. It is designed to ensure and maintain the temperature of the hot water distributed to the user when there are variations in the temperature and pressure conditions of the inlet hot and cold water or in the draw-off flow rate.
This particular series of electronic mixers is equipped with **a specific regulator that controls a set of programs for circuit thermal disinfection against Legionella**.
In addition it enable **checking the temperature and time for thermal disinfection are actually reached** and undertaking the appropriate corrective action. All the **parameters are updated every day and logged**, recording the temperatures hourly.
Fitted for a **remote control connection**.
Patented.

Product range

6000 series	Electronic mixing valve with programmable thermal disinfection. Threaded version. Sizes 3/4" - 1" - 1 1/4" - 1 1/2" - 2"
6000 series	Electronic mixing valve with programmable thermal disinfection. Flanged version. Sizes DN 65 and DN 80

Technical specifications

6000 series

Valve body

Materials:

Body:	brass EN 12165 CW617N, chrome plated
Ball:	brass EN 12165 CW617N, chrome plated
Hydraulic seals:	NBR
Maximum working pressure (static):	10 bar
Maximum inlet temperature:	100°C
Temperature gauge scale:	0–80°C

Actuator for threaded version

Electric supply:	230 V (ac)- 50/60 Hz directly from the regulator
Power consumption:	(3/4"–1 1/4") 4 W; (1 1/2"–2") 10 W
Protection class:	IP 54

Actuator for flanged version

Electric supply:	230 V (ac)- 50/60 Hz directly from the regulator
Power consumption:	10,5 W
Protection class:	IP 65

Digital regulator

Electric supply:	230 V (ac) 50/60Hz
Power consumption:	6,5 VA
Adjustment temperature range:	20–65°C
Disinfection temperature range:	40–85°C
Ambient temperature range:	0–50°C
Protection class:	IP 54 (wall mounting) (class II appliance)

Mixing valve performance

Accuracy:	± 2°C
Max working pressure (dynamic):	5 bar
Maximum inlet pressures ratio (H/C or C/H) given G = 0,5 Kv:	2:1

Functional details

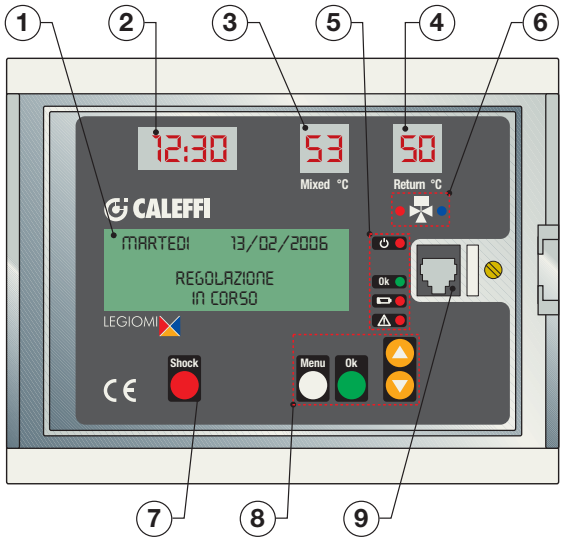
By means of a specific sensor, the regulator measures the temperature of the mixed water at the valve outlet and operates the mixing valve to maintain the set temperature.

The appliance incorporates a digital clock and allows programming anti-legionella disinfection treatment on the plumbing system.
The system is disinfected by raising the water temperature to a specific value for a specific length of time.

For the **best thermal disinfection control**, in this type of system it may also be necessary to measure the temperature of the water returning from the distribution, called **recirculation sensor temperature**. When this measurement is available, it is used in order to **check and control the temperature reached over all or part of the network**, since the sensor can be located at a significant remote point of the system.

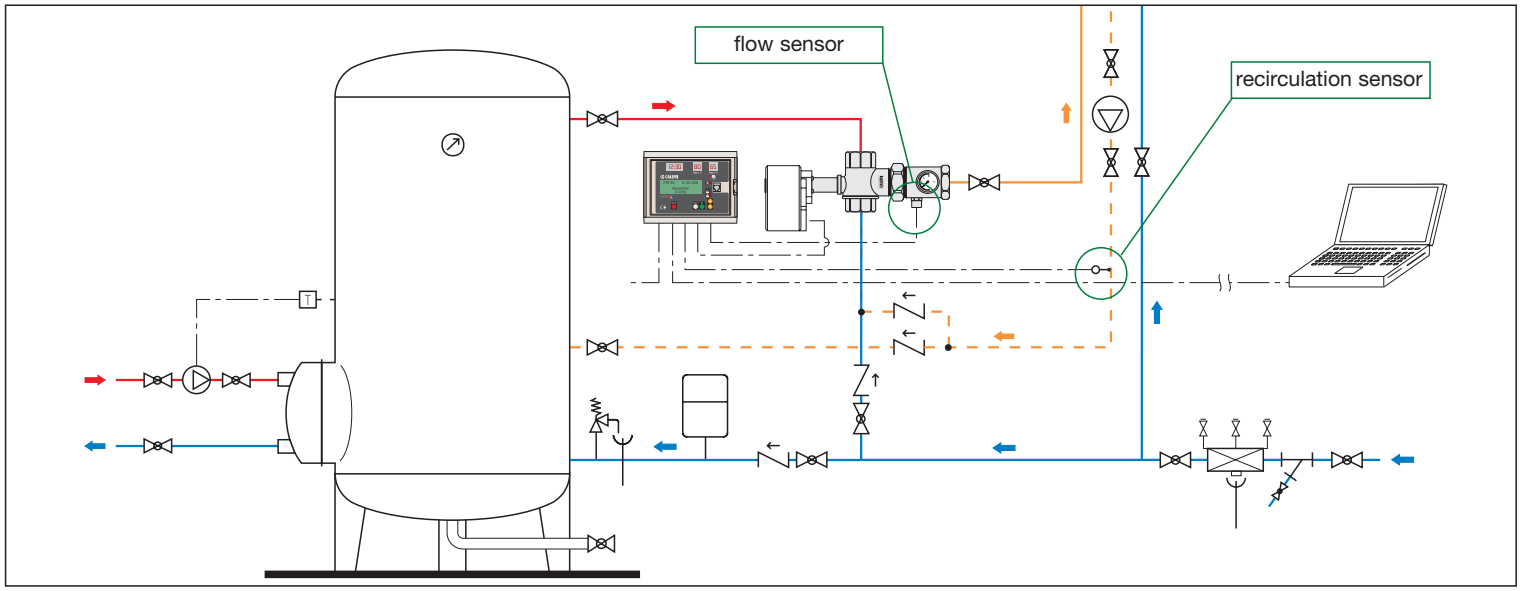
The appliance is equipped with an RS-485 **interface for remote querying and setting and via specific relays it carries alarm signals and controls for other system devices outside**.

Digital regulator



1) LCD display
2) LED display: Time
3) LED display: Tmixed-flow temperature
4) LED display: Treturn-return temperature
5) Indicator LED
   - ON
   - Status OK
   - Battery
   - Alarm
6) Mix valve open-close LED
7) Thermal shock button
8) Navigation buttons
   - Menu
   - OK
   - UP-direction key
   - DOWN-direction key
9) RS 485 front connection

Application diagram



We reserve the right to change our products and their relevant technical data contained in this publication at any time and without prior notice.

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