LEGIOMIX®
ELECTRONIC MIXING VALVE

PRODUCT FEATURES

- **Market’s highest rated flow capacity:**
  DZR low-lead brass body, full-port ball valve, ¾” to 3” connections, 2.2 to 537 gpm flow rates.

- **Thermal disinfection programs:**
  Calendar based programs for scheduling circuit thermal disinfection to kill Legionella.

- **Complete kit:**
  Everything needed for quick installation, including valve, actuator, LCD/LED controller, mix outlet sensor and return temperature sensor.

- **Self cleaning:**
  Automatic daily ball rotation to flush scale and debris, ensuring smooth operation.

- **Union pipe fittings:**
  ¾” through 2” models have all-union connections for easy maintenance and service without piping modifications.

- **BAS-ready:**
  Integral Modbus is standard with an optional Modbus-BACnet gateway for remote access to building automation integration.

Advanced Mixing Control

LEGIOMIX® is an advanced electronic mixing valve with digital control of temperature for commercial domestic hot water systems. The daily exercise function keeps the ball valve free of scale build-up to ensure smooth operation. Rated highest in the market for flow capacity, this feature packed product also has an industry exclusive calendar-based scheduling program for automatic circuit thermal disinfection.
**PRODUCT RANGE - LEGIOMIX®**

<table>
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<tr>
<th>SIZE</th>
<th>Cv</th>
<th>MIN. FLOW (GPM) *</th>
<th>DESIGN FLOW (GPM) **</th>
<th>MAX. FLOW (GPM) ***</th>
<th>CODE NPT</th>
<th>SWEAT</th>
<th>PRESS</th>
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<td>537</td>
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*To ensure stable operation and accurate temperature control. Minimum flow is 0 gpm when recirculation flow rate is ≥ the valve size minimum flow rating.

**Suggested maximum flow rate for optimum modulating control (at 7.5 psid pressure drop).

***Maximum recommended differential pressure is 20 psid for smooth and quite operation.

Inlet port check valves are available for field installation, code NA10366 (1", 1¼") and NA10367 (1½", 2").

Meets requirements of CSA Z317.1 Special Requirement for Plumbing Installations in Health Care Facilities.

**PERFORMANCE**

- MAX. OPERATING PRESSURE: 150 psi (10 bar)
- SETTING TEMPERATURE RANGE: 70 — 185°F (20-85°C)
- DISINFECTION TEMP. RANGE: 100 — 185°F (40-85°C)
- MAX. HOT WATER INLET TEMP.: 212°F (100°C)

**WIRING DIAGRAM**

- 24 VAC FLOATING CONTROL
- MIXED OUTLET WATER TEMPERATURE SENSOR
- RETURN WATER TEMPERATURE STRAP-ON SENSOR
- OPTIONAL MODBUS/ BACNET GATEWAY
- 24 VAC RELAY
- RS485 MODBUS 2-WIRE COMMUNICATION
- TO BAS

**PACKAGE CONTENTS**

- 1) LEGIOMIX® digital controller
- 2) Mixing valve
- 3) Mixing valve 24 V 3-wire floating actuator
- 4) Mixed outlet water temperature sensor
- 5) Return water (recirculation) temperature strap-on sensor
- 6) Mixed outlet water temperature gauge
- 7) Actuator mounting clip
- 8) For Flanged version only: removable operating lever

**EXAMPLE APPLICATION DIAGRAM**

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