

RADA SENSE - BATH/SHOWER T3

- The world's first digital mixing valve for commercial use
- Sets new standards of hygiene
- No-touch ON/OFF and temperature control
- Programmable flow times and temperatures
- Programmable 'duty flushing'
- Thermal disinfection with datalogging
- Valve information and usage data
- Incorporating T-logic™ digital intelligence



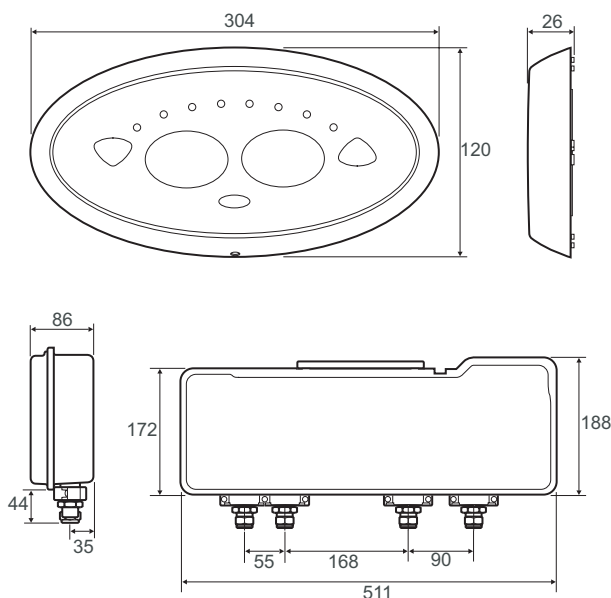
Allows the user to operate, communicate and exchange information with the mixing valve to deliver the ultimate in safety, hygiene and control.



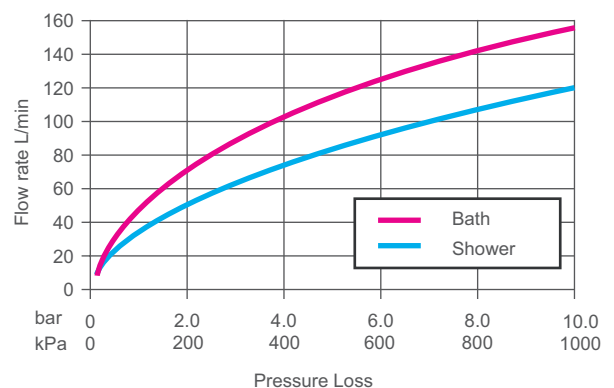
Specify as: Rada Sense - Bath/Shower T3 (1.1503.690)

Concealed digital mixing valve for bath/shower, offering programmable maximum, minimum and default temperatures, duty flush and thermal disinfection with datalogging capabilities. Supplied complete with programmable software, power supply, check valves and strainers. Wall mounted control panel offering infra-red no-touch controls for flow and temperature adjustment and programmable timed flow control.

Dimensions (mm)



Flow Diagram



www.radasense.com

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TECHNICAL SPECIFICATION

Installation and Maintenance

Please refer to the appropriate product manual.

Connections

Inlet: 3/4" BSP male
 Bath outlet: 3/4" BSP male Shower outlet: 1/2" BSP male.

Approvals

Buildcert TMV3 Thermostatic Mixing Valve Scheme approved:-
 LP-D44 Low Press. Bathfill max temp 44°C, Shower max temp 41°C
 LP-D46 Low Press. Bathfill max temp 46°C, Shower max temp 41°C
 HP-D44 High Press. Bathfill max temp 44°C, Shower max temp 41°C
 HP-D46 High Press. Bathfill max temp 46°C, Shower max temp 41°C
 Certificate No. BC100/0205
 Complies with the requirements of BS7942 for the same designations
 Buildcert TMV2 Thermostatic Mixing Valve Scheme approved:-
 LP-T Low Press. Bathfill max temp 44°C, Shower max temp 41°C
 LP-T Low Press. Bathfill max temp 46°C, Shower max temp 41°C
 HP-T High Press. Bathfill max temp 44°C, Shower max temp 41°C
 HP-T High Press. Bathfill max temp 46°C, Shower max temp 41°C
 Certificate No. BC101/0205
 Designed to comply with European Standards EN1111 and EN1287
 WRAS approved (Water Regulations Advisory Scheme)
 BEAB approved
 Designed to IEC 61508
 Designed, manufactured and supported in accordance with accredited
 BS EN ISO 9001:2000 Quality Management Systems and
 BS EN ISO 14001:2004 Environmental Management Systems

Operation

Temperature selector: Full no-touch temperature control.
 Flow control: No-touch ON/OFF.

Materials

Control panel cover: Chrome plated ABS.
 Mixing unit enclosure: PC/ABS.
 Integral components: DZR brass, stainless steel, engineering plastic.

Temperature Range

Factory pre-set shower: Min 30°C, Max 41°C, Default 38°C.
 Factory pre-set bath: Min 30°C, Max 44°C, Default 40°C
 Programmable range: Min 30°C - 47°C, Max 33°C - 50°C and Default
 30°C - 50°C.
 Minimum blend temperature differential from hot supply: 2°C.
 Optimum thermostatic control range: 30°C - 50°C.
 Cold water range (recommended): 1°C - 20°C.
 Hot water range (recommended): 50°C - 65°C (85°C during disinfection).
 Temperature stability: ± 1°C for recommended supply conditions.

Pressures

Maximum static pressure: 10 bar (1000 kPa).
 Minimum pressure loss: 0.2 bar (20 kPa) Refer to Note.

Hot and cold pressure should be nominally equal.
 (Max differential 3:1 either way).

Minimum flow rate: 9 l/min.

Note! The pressure loss of a system (valve and outlet fitting) is the average of the two inlet pressures minus the back pressure, where the back pressure is determined by the flow resistance of any outlet fitting.

Environment

Ambient temperature: 1°C - 40°C.
 Maximum relative humidity: 95% non-condensing.
Note! Certain types of compact fluorescent and low voltage lighting use high frequency lamps that can interfere with the infrared system used in the control panel. Install in areas where standard switch-start fluorescent lighting is used.

IP Rating

Control panel: IP47 Overall valve enclosure: IP24
 Electronics compartment: IP45 PSU: IP45.

Electrical Specification

Supply Voltage: 100 - 240 V RMS 50 - 60 HZ.
 Maximum load: 20 W at 12 V DC.
 Control panel cable length: 3 m supplied (6 m max).

Times (Duty flush not enabled at factory, programming required)

Factory settings
 Flow time shower: 30 sec, bath: 300 sec
 Duty flush cycle: 2 minutes.
 Duty flush waiting period: 12 hours.

Programmable range

Flow time shower/bath: 5 sec - 60 min.
 Duty flush cycle: 1 min - 59 min.
 Duty flush waiting period: 1 hr - 983 hrs.
 Disinfection not enabled at factory.

Disinfection

Factory settings
 Minimum temperature: 60°C.
 Minimum time: 5 minutes.
 Programmable range
 Minimum temperature: 60°C - 85°C.
 Minimum time: 0 - 50 minutes.

Pocket PC (PDA*)

A Pocket PC is required to adjust factory settings, retrieve data, configure duty flush and disinfection cycles.
 The programmer software supplied is designed to run on Microsoft Pocket PC 2002 and Microsoft Windows Mobile (for Pocket PC).
 * Personal Digital Assistant (not supplied)
 Please refer to the appropriate software manual.

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