

RADA SENSE - 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 - Shower T3 (1.1503.682)

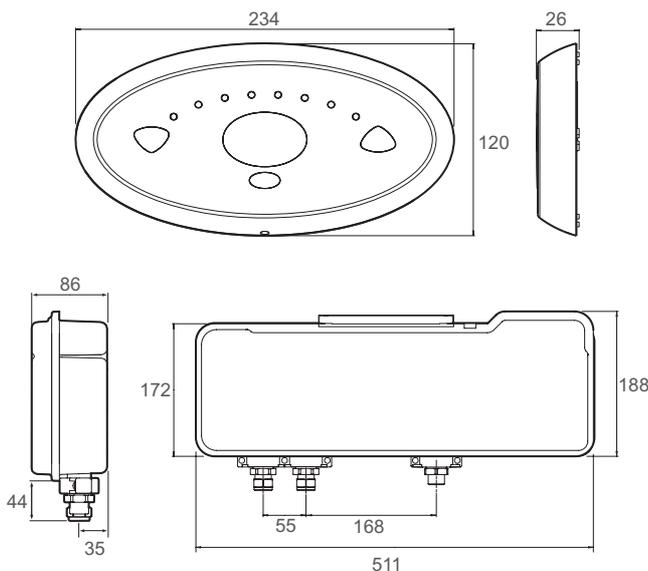
Concealed digital mixing valve for shower, offering programmable maximum, minimum and default temperatures, duty flush and thermal disinfection with datalogging capabilities.

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.

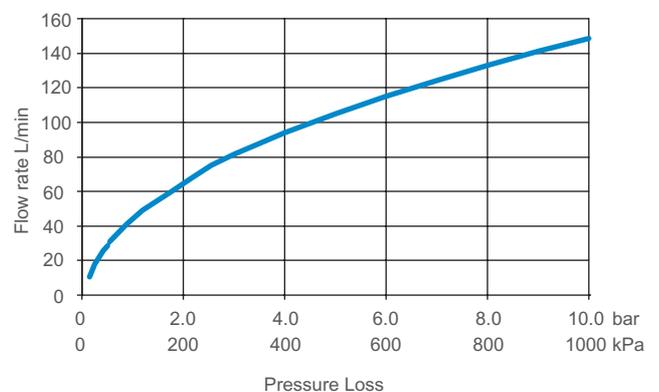
Specify as: Rada Sense Shower Kit T3 (1.1503.706)

Rada Sense as per shower complete with vandal resistant shower fitting for connection to concealed pipework supplied with 9 l/min flow regulator.

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 and outlet connections: 1/2" BSP male.

Approvals

Buildcert TMV3 Thermostatic Mixing Valve Scheme approved:-

LP-S Low Pressure Shower

HP-S High Pressure Shower

Certificate No. BC100/0205

Complies with the technical requirements of BS7942 for the same designations

Buildcert TMV2 Thermostatic Mixing Valve Scheme approved:-

LP-S Low Pressure Shower

HP-S High Pressure Shower

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: Min 30°C, Max 41°C, Default 38°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: $\pm 1^\circ\text{C}$ 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: <5 bar maintained pressure 6 l/min,

>5 bar maintained pressure 8 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

Factory settings

Flow time: 30 seconds.

Duty flush cycle: 2 minutes.

Duty flush waiting period: 12 hours.

Programmable range

Flow time: 5 sec - 60 min.

Duty flush cycle: 1 min - 59 min.

Duty flush waiting period: 1 hr - 983 hrs.

Duty flush not enabled at factory, programming required.

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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FM 14648



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