

RADA SENSE - SHOWER T3



- WRAS Approved.
- Remotely located valve (up to 3m).
- The world's first digital mixing valve for commercial use.
- Sets new standards of hygiene.
- Non-touch ON/OFF interface activation and temperature controls.
- Programmable flow times and temperatures.
- Programmable 'duty flushing'.
- Thermal disinfection with datalogging.
- Valve information and usage data
- Incorporating T-logic™ digital intelligence.

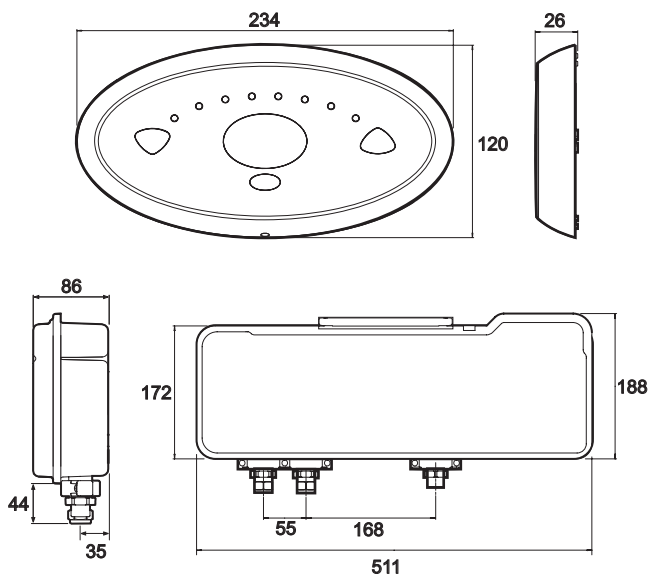
**T-logic™ Digital Intelligence**

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

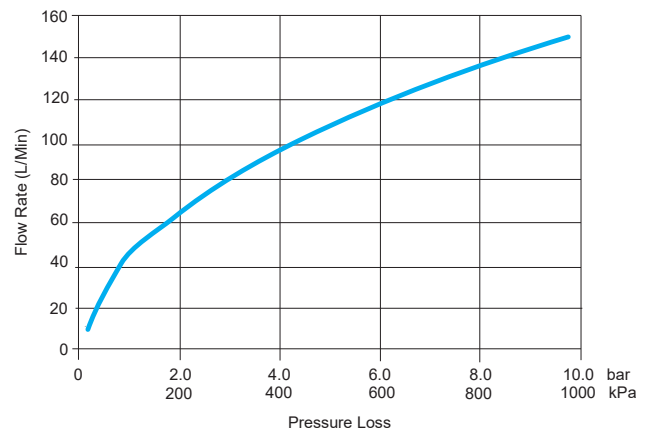
**Specify as: Rada Sense - Shower T3 (1.1503.682)**

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.

Dimensions**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 (Rada VR105).

Flow Diagram

TECHNICAL SPECIFICATION

Installation and Maintenance

Please refer to the appropriate product manual.

Connections

Inlet and outlet connections: 1/2" BSP male.

Approvals

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 9001:2008 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).

Flow 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.