temperature control systems

AQUABLEND — A SAFER CHOICE FOR WARM WATER DELIVERY

- Aquablend SQX™
- Aquablend Thermostatic Mixing Valves
Aquablend high performance thermostatic mixing valve technology is now combined with sequential mixing technology to provide the first watermark certified point of use thermostatic mixers in Australia.

Designed and manufactured in Australia, the Aquablend SQX™ range delivers the most advanced choice for safe warm water delivery in high risk applications such as hospitals and aged care facilities.

The Aquablend SQX™ range delivers temperature controlled heated water for individual basin, sink and shower applications, specifically designed for use in higher risk environments such as healthcare, aged care, schools, child care centres and by people with disabilities.

For these environments Enware has long believed that absolute quality is crucial for reliable performance and safety. That’s why the Aquablend SQX™ thermostatic mixers are WaterMarked to AS4032.1 for compliance with the Plumbing Code of Australia (PCA) and are supported by more than seven decades of Enware’s experience and expertise.

The Aquablend SQX range incorporates proven technology for thermostatic temperature control with an easy to maintain design.

- Cool touch engineering prevents the outer surfaces from the heating up by the hot water in the system
- Temperature stability within +/-2°C, even during temperature and pressure fluctuations
- Controls temperature spike at ambient start-up
- Thermal shut down in the event of either hot or cold water supply failure
- WaterMark approved to AS4032.1.
Building regulations state that the circulation of hot water must be at temperatures sufficiently high enough to stop the legionella, that naturally occurs in the water supply, from multiplying to a level that may cause health problems to susceptible people. In Australia, Health Department Guidelines and the National Plumbing and Drainage Code stipulates that hot water shall be stored at no less than 60°C to help prevent the growth of legionella.

### legionella: minimisation of risk

Water below 50°C has been considered ‘safe’ for scald protection. But even at this temperature 45 seconds of exposure can result in second degree burns on a child. However water stored below 50°C creates a breeding ground for legionella bacteria.

A solution to both challenges is to fit an Aquablend SQX thermostatic mixer at the point of use. This allows the hot water to be at a sufficiently high temperature in the plumbing system to prevent bacteria or microbial growth whilst delivering safe, controlled temperature warm water for users. Typically 38-45°C in high risk applications such as hospitals or nursing homes.

### MICROBIAL GROWTH OR SCALD PROTECTION

<table>
<thead>
<tr>
<th>TEMPERATURE RANGE</th>
<th>EFFECT ON LEGIONELLA</th>
</tr>
</thead>
<tbody>
<tr>
<td>70-80°C</td>
<td>Disinfection range</td>
</tr>
<tr>
<td>66°C</td>
<td>Legionella will die in 2 minutes</td>
</tr>
<tr>
<td>60°C</td>
<td>Legionella will die in 32 minutes</td>
</tr>
<tr>
<td>55°C</td>
<td>Legionella will die in 5-6 hours</td>
</tr>
<tr>
<td>50-55°C</td>
<td>Legionella can survive but will not multiply</td>
</tr>
<tr>
<td>20-50°C</td>
<td>Legionella growth range</td>
</tr>
<tr>
<td>Below 20°C</td>
<td>Legionella can survive but are dormant</td>
</tr>
</tbody>
</table>

### THE AQUABLEND SQX™ PROVIDES THE ADVANTAGES OF:

- Minimises dead-legs in pipework where bacteria growth can occur
- Allows for easier hot water disinfection of plumbing systems
- Self-draining design further reduces bacteria growth risk.

### ease of use

With main applications being healthcare ease of use was a key feature in the design. The handles are available in two lengths to best suit the application. The shorter lever is best suited to general use in commercial buildings. The longer lever is designed for elbow control in health care and for accessible applications where the extra leverage assists users.
water efficiency and effective washing

The Aquablend SQX range offers a choice of water efficiency options to best suit the application requirements. In high risk environments there is recognition that clinical hand washing and surgical hand washing can be more effective with higher flows of warm water. The extended lever option allows the tap to be turned off using the elbow to avoid hand cross contamination. Aquablend SQX is available in flow rates 6.8 or 5.7 litres per minute. Laminar flow is supplied standard on mixers. Aerated flow is available, request when specifying or ordering.

smooth, easy to clean design

Aquablend SQX™ mixers have been designed with smooth, uncomplicated designs to reduce hidden nooks and crevices that can be difficult to clean effectively. The mixer design also allows for easy in-situ maintenance and reduced downtime during routine requirements as outlined in AS/NZS3500.4 and AS4032.3.

innovative sequential control helps save energy

The innovative sequential thermostatic cartridge delivers energy efficient water delivery through a single radial movement. Flow always begins with cold water delivery travelling through a 120 degree arc to the desired heated water temperature for each individual user.

The flow controlled sequential operation always ensures that only cold water is drawn through the mixer during initial actuation, then progressing to precise and safe mixed heated water delivery via thermostatic control. This ensures limited wastage of heated water, therefore delivering significant benefits in reducing energy consumption and the associated carbon emissions.
## Technical Information

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Dynamic Inlet Pressures</strong></td>
<td>Min 20kPa Max 500kPa</td>
<td>For optimum operation it is recommended that the hot and cold water supply pressures be balanced within +/- 10%</td>
</tr>
<tr>
<td><strong>Static Inlet Pressures</strong></td>
<td>Maximum 1600kPa</td>
<td>For testing purposes/system commissioning</td>
</tr>
<tr>
<td><strong>Inlet Pressure Ratio</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>( H - PL = H^1 )</td>
<td>H = Hot inlet pressure</td>
</tr>
<tr>
<td></td>
<td>( C - PL = C^1 )</td>
<td>C = Cold inlet pressure</td>
</tr>
<tr>
<td></td>
<td>( H^1 : C^1 = \text{Max 10:1} )</td>
<td></td>
</tr>
<tr>
<td><strong>Hot Temperature Supply Range</strong></td>
<td>55-85°C</td>
<td></td>
</tr>
<tr>
<td><strong>Cold Temperature Supply Range</strong></td>
<td>5-25°C</td>
<td></td>
</tr>
<tr>
<td><strong>Minimum Temperature Differential</strong></td>
<td>10°C</td>
<td></td>
</tr>
<tr>
<td>(between hot supply and the outlet temperature)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Adjustable Thermostatic Temperature Range</strong></td>
<td>35-46°C (+/-2)</td>
<td></td>
</tr>
<tr>
<td><strong>Minimum Flow Rate</strong></td>
<td>2L/min</td>
<td></td>
</tr>
</tbody>
</table>

*Enware products are to be installed in accordance with AS/NZS3500. **Heated Water Supply AS/NZS 3500.4: For all sanitary fixtures used primarily for personal hygiene purposes are to deliver heated water not exceeding: a) 45°C for early childhood centres, primary and secondary schools and nursing homes or similar facilities for young, aged care, sick people with disabilities b) 50°C in all other buildings.

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### Pressure Drop vs Flow Rate

(No flow restrictors)

<table>
<thead>
<tr>
<th>Flow Rate (L/min)</th>
<th>Pressure Drop (kPa)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>2</td>
<td>50</td>
</tr>
<tr>
<td>4</td>
<td>100</td>
</tr>
<tr>
<td>6</td>
<td>150</td>
</tr>
<tr>
<td>8</td>
<td>200</td>
</tr>
<tr>
<td>10</td>
<td>250</td>
</tr>
<tr>
<td>12</td>
<td>300</td>
</tr>
<tr>
<td>14</td>
<td>350</td>
</tr>
<tr>
<td>16</td>
<td></td>
</tr>
</tbody>
</table>

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**RELATED PRODUCTS**

Aquablend TMVs — Page 269
Aquablend SQX Thermostatic Basin Mixer
ATM606-4  6.8lpm Nominal Flow Rate (4 Star equivalent)
ATM606-5  5.7lpm Nominal Flow Rate (5 Star equivalent)

Aquablend SQX Thermostatic Basin Mixer — Extended 200mm Lever Handle
ATM606D-4  6.8lpm Nominal Flow Rate (4 Star equivalent)
ATM606D-5  5.7lpm Nominal Flow Rate (5 Star equivalent)

Aquablend SQX Thermostatic Basin Mixer — Extended 100mm Lever Handle
ATM606L-4  6.8lpm Nominal Flow Rate (4 Star equivalent)
ATM606L-5  5.7lpm Nominal Flow Rate (5 Star equivalent)

Aquablend SQX Thermostatic Sink Mixer — Extended Swivel Spout
ATM607-4  6.8lpm Nominal Flow Rate (4 Star equivalent)
ATM607-5  5.7lpm Nominal Flow Rate (5 Star equivalent)

Aquablend SQX Thermostatic Sink Mixer — Extended Swivel Spout and 200mm Lever Handle
ATM607D-4  6.8lpm Nominal Flow Rate (4 Star equivalent)
ATM607D-5  5.7lpm Nominal Flow Rate (5 Star equivalent)

Aquablend SQX Thermostatic Sink Mixer — Extended Swivel Spout and 100mm Lever Handle
ATM607L-4  6.8lpm Nominal Flow Rate (4 Star equivalent)
ATM607L-5  5.7lpm Nominal Flow Rate (5 Star equivalent)
Aquablend SQX Thermostatic Shower Mixer — Recessed
ATM6082L Standard Handle

Aquablend SQX Thermostatic Shower Mixer - Recessed with 100mm Lever Handle
ATM608L 100mm Lever Handle

Aquablend SQX Thermostatic Surgeon Mixer — Wall Mounted
ATM611-4 6.8pm Nominal Flow Rate
   (4 Star equivalent)
ATM611-5 5.7pm Nominal Flow Rate
   (5 Star equivalent)

Aquablend SQX Shower Mixer With SP272 Hand Held Shower WELS 3 Star 8lpm
ATM661 1.5m Smooth White Hose with integral Supply Elbow/Mounting bracket

Aquablend SQX Shower Mixer With SP272C Chrome Hand Held Shower WELS 3 Star 8lpm
ATM661C 1.5m Smooth Matte Chrome Hose with integral Supply Elbow/Mounting bracket

Aquablend SQX Mixer With SP273 Heavy Duty Wall Bar and White Hand Held Shower WELS 3 Star 8lpm
ATM663 1.5m Smooth White Hose with 900mm Bright Chrome Wall Bar and White Adjustable Holder

NOTE: Dimensional drawings for product illustrating purpose only. For set-out compliance refer to AS1428.1-2009 and 2010 amendments Design for Access and Mobility.
Aquablend SQX Mixer With SP273C Heavy Duty Wall Bar and Chrome Hand Held Shower WELS 3 Star 8lpm
ATM663C
1.5m Smooth Matte Chrome Hose with 900mm Bright Chrome Wall Bar and Adjustable Holder

Aquablend SQX Shower Mixer With SGR023 Stainless Steel Grab Rail and Hand Held Shower WELS 3 Star 8lpm
ATM664
1.5m Smooth White Hose with 900mm Rail and White Adjustable Holder

Aquablend SQX Shower Mixer With SGR023C Stainless Steel Grab Rail and Chrome Hand Held Shower WELS 3 Star 8lpm
ATM664C
1.5m Smooth Matte Chrome Hose with 900mm Rail and Adjustable Holder
Aquablend SQX Spare Parts

- ATMS600: Cartridge and Thermostat Replacement
- ATMS601: Aquablend SQX O-Ring Kit to suit Basin and Sink Bodies
- ATMS602: Aquablend SQX O-Ring Kit to Suit Swivel Spout for ATM007/607D/611
- ATMS603: Aquablend SQX Aerator & Key — 8lpm to suit WELS 3 Stars
- ATMS604: Aquablend SQX Isolation Valve Cover for Sink and Basin Models
- ATMS605: Aquablend SQX Inlet Strainer 2 off for Sink and Basin Models
- ATMS607: Aquablend SQX Connector for Sink and Basin Models — Hot Inlet
- ATMS608: Aquablend SQX Connector for Sink and Basin Models — Cold Inlet
- ATMS609: Aquablend SQX Dress Ring for Basin Model Only
- ATMS610: Aquablend SQX Aquablend SQX Backnut Kit for Basin and Sink Bodies
- ATMS611: Aquablend SQX M10 x 1/2” BSP HOSE 350mm Long — 2 Hoses — 1x Hot 1x Cold
- ATMS612: Aquablend SQX 10mm Check Valve 2 off to suit ATM606/607D/608
- ATMS613: Aquablend SQX Cold and Warm Indicator to suit SQX Standard Handle
- ATMS614: Aquablend SQX Cold and Warm Indicator to suit Extended Handle
- ATMS617: Aquablend SQX Body Locknut for ATM606/606D Only
- ATMS618: Aquablend SQX Body Locknut for ATM607/607D Only
- ATMS680: Aquablend SQX Plate Fixing Screws to Suit ATM608 Only
- ATMS687: Aquablend SQX Dress Ring and Cover Flange to Suit ATM608 Only
- ATMS688: Aquablend SQX Inlet with Ball Valve to suit ATM608 Only
- ATMS689: Aquablend SQX Strainer 2 off to suit ATM608 Only
- ATMS690: Aquablend SQX Inlet Body End Cap 1 off to Suit ATM611 Only
- ATMS691: Aquablend SQX Inlet Heat Shield Kit 1 off for ATM611 Only
- ATMS692: Aquablend SQX Wall Flange with Offset Connector, Ball Valve to suit ATM611 Only
- ATMS693: Aquablend SQX Strainer with Check Valve 2 off For ATM611 Only
- ATMS694: Aquablend SQX Heat Shield with Strainer Assembly for ATM611 Only
- ATMS695: Aquablend SQX Inlet Flange O-ring Kit for ATM611 Only

Aquablend SQX Short Handle

- ATMS615: Aquablend SQX Standard Handle Kit Complete
Aquablend SQX Extended 200mm Lever Handle
ATMS616
Aquablend SQX Extended Handle Kit
Complete

Aquablend SQX 100mm Lever Handle
ATMS697
Aquablend TMVs

Aquablend high-performance Thermostatic Mixing Valves are designed and manufactured in Australia and are supported by more than 75 years of Enware’s experience and expertise.

Meeting Australian legislation: leading the worlds quality standards

Enware has long believed that absolute quality is crucial to reliable performance and safety. That’s why our Aquablend Thermostatic Mixing Valves are Standards marked to AS/NZS4032.1. They also deliver the world’s highest standards of quality and durability to allow for AS/NZS3500 compliance.

The healthcare preferred models — Aquablend 1500 range and Aquablend 2000, have NSW Health Approval for use in public and private healthcare facilities.

In hospitals, hotels, aged care facilities, homes and commercial applications, where stable-temperature warm water is required, Aquablend safely delivers to plus or minus 2° Celsius – even under changing temperature and pressure conditions. So safety from scalding or shock is ensured by Aquablend’s thermal shut-off capability in the event of either cold or hot water supply failure.

For showers, baths, basins and sinks – especially where there are young children, elderly or disabled people – Aquablend protects against scald injuries and provides superior temperature stability for warm water delivery.

For optimum performance and reliability Aquablend TMVs are required to be maintained in accordance with the manufacturer’s recommendations as stated in the Manual for Installation, Commissioning and Maintenance provided with each valve.

Performance and technical support

Aquablend Thermostatic Mixing Valves are safe, simple and easy to maintain – and provide many features that not only match but exceed industry standards. Some of their proven benefits include:

**Temperature Stability**

Superior temperature stability where variations in water supply temperatures and pressures occur.

**Ambient Start Up Control**

Superior ability to control temperature spikes at ambient start up.

**Thermal Shutdown**

The Aquablend TMVs shut down in the event of either Cold water or Hot water supply failure. The valve quickly reinstates flow when normal supply resumes.

**Constant Mix Control**

Water temperature is maintained at ± 2°C even during water temperature or pressure fluctuations.
PERFORMANCE AT LOW PRESSURE AND REDUCED FLOW RATES

Aquablend is able to supply stable temperature water in both low pressure systems and reduced flow rate systems operating with a minimum working pressure of 20Kpa and flow rates as low as 2 L/min.

SUPPLIED COMPLETE

Each unit comes complete with combination isolating ball valve, non-return and dual-stage strainer assemblies which incorporate water pressure/temperature test ports.

INSTALLATION VERSATILITY

Each TMV can be installed in any configuration with the water outlet in the horizontal or vertical (up or down) position, and inlet connections can be rotated to suit inlet pipework.

TECHNICAL SUPPORT

Each TMV is supplied with a detailed technical manual to facilitate valve sizing, installation, commissioning, maintenance and troubleshooting. By choosing Aquablend TMVs, you are choosing the industry’s acknowledged leader in technical support.

MULTIPLE OUTLET OPERATION

A single Aquablend Thermostatic Mixing Valve can cater for more than one shower, wash basin and bath. Diagram shows schematic of typical healthcare application.

AQUABLEND THERMOSTATIC MIXING VALVE

Integral service fittings on both hot and cold inlets, complete with:
- Isolator Test point
- Strainer
- Non-return.

THE VERSATILE AQUABLEND RANGE – HIGHEST STANDARDS, EXCEPTIONAL PERFORMANCE

Flow Characteristics of Aquablend 1000, 1500, 2000, 2500 with Inlet Fittings (With Mix Temperature at 42°C at Valve Outlet)

TEMPERATURE STABILITY

Superior temperature stability where variations in water supply temperatures and pressures occur.

EASY MAINTENANCE

The compact component assembly design allows low-cost, in-situ servicing and ensures minimum down-time. Flat faced connections allow removal of the valve without disturbing the pipework.

technical information

<table>
<thead>
<tr>
<th>Aquablend Models</th>
<th>1000, 1500, 2000, 2500</th>
<th>1500 Solar</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum temperature differential (hot supply to mixed water outlet temperature)</td>
<td>10°C</td>
<td>10°C</td>
</tr>
<tr>
<td>Hot temperature range at inlet</td>
<td>55° to 90°C</td>
<td>55° to 99°C Note: Supply must not be steam</td>
</tr>
</tbody>
</table>

Enware products are to be installed in accordance with AS/NZS3500. *Heated Water Supply AS/NZS 3500.4: For all sanitary fixtures used primarily for personal hygiene purposes are to deliver heated water not exceeding: a) 45°C for early childhood centres, primary and secondary schools and nursing homes or similar facilities for young, aged care, sick people with disabilities (43.5°C – NSW Code of Plumbing Practice) b) 50°C in all other buildings.

Product details in this guide are indicative only and may change without notice.
technical information

AQUABLEND 1000
Temperature Adjustment Range: 38°C to 50°C
Dynamic Inlet Pressures: 20kPa Min – 500kPa Max
Static Inlet Pressure: 1600kPa Max
Flow Rates: 38lpm@300kPa pressure loss
Minimum Flow Rate for stable outlet temperature: 4 litres/min

Flow Rates:
- Static Inlet Pressure: 1600kPa Max
- Dynamic Inlet Pressures:
  - 20kPa Min – 500kPa Max

Temperature Adjustment Range: 38°C to 50°C
Outlet size: 1” complete with 1”x1/2” & 1”x3/4” BSP adaptors
Finish: Nickel plated
Exposed Box code: ATM710E
Recessed Box code: ATM710R
Wall Bracket code: ATM728
Access Panel for Box: ATM725
O-ring Service Kit code: ATM700S
Thermostatic Element/Shuttle Assembly (5 year service) code: ATM700K

Order Code: ATM710
Inlet size: 1/2” compression nuts
Outlet size: 1” complete with 1”x1/2” & 1”x3/4” BSP adaptors

AQUABLEND 1500
Temperature Adjustment Range: 35°C to 48°C
Dynamic Inlet Pressures: 20kPa Min – 500kPa Max
Static Inlet Pressure: 1600kPa Max
Flow Rates: 42lpm@300kPa pressure loss
Minimum Flow Rate for stable outlet temperature: 4 litres/min

Flow Rates:
- Static Inlet Pressure: 1600kPa Max
- Dynamic Inlet Pressures:
  - 20kPa Min – 500kPa Max

Temperature Adjustment Range: 38°C to 50°C
Outlet size: 1” complete with 1”x1/2” & 1”x3/4” BSP adaptors
Finish: Nickel plated
Exposed Box code: ATM710E
Recessed Box code: ATM710R
Wall Bracket code: ATM728
Access Panel for Box: ATM725
O-ring Service Kit code: ATM700S
Thermostatic Element/Shuttle Assembly (5 year service) code: ATM700K

Order Code: ATM700
Inlet size: 1/2” compression nuts
Outlet size: 1” complete with 1”x1/2” & 1”x3/4” BSP adaptors

AQUABLEND 1500 SOLAR
Temperature Adjustment Range: 38°C to 50°C
Dynamic Inlet Pressures: 20kPa Min – 500kPa Max
Static Inlet Pressure: 1600kPa Max
Flow Rates: 39lpm@300kPa pressure loss
Minimum Flow Rate for stable outlet temperature: 4 litres/min

Flow Rates:
- Static Inlet Pressure: 1600kPa Max
- Dynamic Inlet Pressures:
  - 20kPa Min – 500kPa Max

Temperature Adjustment Range: 38°C to 50°C
Outlet size: 1” complete with 1”x1/2” & 1”x3/4” BSP adaptors
Finish: Nickel plated
Exposed Box code: ATM710E
Recessed Box code: ATM710R
Wall Bracket code: ATM728
Access Panel for Box: ATM725
O-ring Service Kit code: ATM700S
Thermostatic Element/Shuttle Assembly (5 year service) code: ATM700K

Order Code: ATM715
Inlet size: 1/2” compression nuts
Outlet size: 1” complete with 1”x1/2” & 1”x3/4” BSP adaptors

AQUABLEND 2000
Temperature Adjustment Range: 38°C to 50°C
Dynamic Inlet Pressures: 20kPa Min – 500kPa Max
Static Inlet Pressure: 1600kPa Max
Flow Rates: 39lpm@300kPa pressure loss
Minimum Flow Rate for stable outlet temperature: 4 litres/min

Flow Rates:
- Static Inlet Pressure: 1600kPa Max
- Dynamic Inlet Pressures:
  - 20kPa Min – 500kPa Max

Temperature Adjustment Range: 38°C to 50°C
Outlet size: 1” complete with 1”x1/2” & 1”x3/4” BSP adaptors
Finish: Polished and Chrome plated
Exposed Box code: ATM710E
Recessed Box code: ATM710R
Wall Bracket code: ATM728
Access Panel for Box: ATM725
O-ring Service Kit code: ATM700S
Thermostatic Element/Shuttle Assembly (5 year service) code: ATM700K

Order Codes: ATM711 (Male) ATM713 (Female)
Inlet size: 1/2” MI comp (ATM711) or 3/4” FI (ATM713)
Outlet size: 3/4” BSP MI
Finish: Polished and Chrome plated
Exposed Box code: ATM7216E
Recessed Box code: ATM7216R
Wall Bracket code: ATM7214
Access Panel for Box: ATM725
O-ring Service Kit code: ATM7230
Thermostatic Element/Shuttle Assembly (5 year service) code: ATM7231

Order Code: ATM725
Inlet size: 3/4” BSP FI
Outlet size: 1” BSP MI
Finish: Polished and Chrome plated
Exposed Box code: ATM727E
Recessed Box code: ATM727R
Wall Bracket code: ATM714
Access Panel for Box: ATM725
O-ring Service Kit code: ATM7301
Thermostatic Element/Shuttle Assembly (5 year service) code: ATM7306
**lockable stainless steel boxes**

**simple to install and maintain**

H**AQUABLEND STAINLESS STEEL ENCLOSURE OPTIONS MAKE ACCESSING AND SERVICING EASY, WITH PRACTICAL FEATURES SUCH AS:**

- Anti-tamper lockable box with brushed stainless steel cover plate
- Adjustable fascia cover to allow adjustment for wall type covering
- Compact design dimensions to fit into stud work
- Oversized fascia provides flange for recess mounting
- Supplied complete with valve, fully plumbed
- Durable stainless steel construction
- Stainless steel bracket to support valve
- Easy access and servicing in-situ
- Complete with test point on outlet.

**AQUABLEND TMV STAINLESS STEEL CONTROL BOXES**

To ensure easy access at all times, Aquablend TMVs have removable doors so installation in confined spaces or close to walls creates no problems.

Also available:
Stainless Steel Access Panel 350mm x 350mm with anti-tamper screws — ATMS215.
Hinged door options.

**specialised configurations**

Developed with key engineering and hydraulic consultant partnerships, control boxes which include Cold Water By-Pass and a Hot & Cold Water By-Pass system are available. Please consult our technical staff for specialised configurations.

**Order Code:**
- ATMS2009R - 1000 model
- ATMS2008R - 1500 model
- ATMS718R - 1500 model

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smart flow™ tmv monitoring

THE ENWARE SMART FLOW™ TMV MONITORING SYSTEM PROVIDES ALL THE INFORMATION YOU NEED, RIGHT AT YOUR FINGER TIPS

Enware Australia’s Smart Flow™ TMV Monitoring System provides a unique risk management tool for the performance and maintenance of Thermostatic Mixing Valves (TMVs). The networked system constantly monitors the whole system electronically, via a calibrated temperature probe installed into the TMV. It provides engineering personnel with a constant temperature readout and performance status report of all TMVs throughout the facility.

Acknowledging the need by government authorities for the provision of safe guards for patients and carers prompted the development of the Smart Flow™ system. It also directly addresses the NSW Department of Health requirement for monthly temperature readings — alleviating this time consuming job and allowing plumbing maintenance staff to focus on more productive activities.

THE PC BASED PROGRAM PROVIDES THE USER WITH MANY FEATURES INCLUDING:

- Constant temperature reading, 24 hours a day
- Alert status audio/visual alarm in the event of a valve operating over temperature
- Automatic logging of TMV history, including individual alert logs
- Interactive password protected maintenance database, which generates reports when annual servicing is due
- Statistical reports providing performance assessment, helps determine level of servicing required for each TMV
- Logs all readings for historical reference, which is third party NATA certified in the event of patient/visitor liability claims
- Full reporting program tailored to the engineering staff requirements.

These systems are bespoke to suit specific project requirements – please contact your Enware representative for more information.

RELATED PRODUCTS

Aquablend SQX point of use thermostatic mixers — Page 260
Lever Action Tapware
Sanitary Ware
Aquablend 1500 Thermostatic Mixing Valve
ATM700
15mm MI Inlet 20mm MI Outlet
with 15mm Adaptor

Aquablend 1500 — 3-Hole Lockable Stainless Steel Cabinet
ATMS700E
Exposed Box and Removable Lid
ATMS700R
Recessed Box and Removable Lid

Aquablend 1500 — 3-Hole Stainless Steel Box and Lid Only
ATMS700
Recessed
ATMS700RS
Recessed Security Model with Torx Screw Lid
ATMS701
Exposed Box with Removable Lid

Aquablend 1500 — 3-Hole Lockable Stainless Steel Cabinet with Hinged Door
ATMS700H
Box Only — Suits Aquablend 1000 and 1500 Models
ATMS700HB

Aquablend 1500 — 4-Hole Lockable Stainless Steel Cabinet
ATMS719E
Exposed Box with Cold Water Bypass and Removable Lid
ATMS719R
Recessed Box With Cold Water Bypass and Removable Lid

Aquablend 1500 — 4-Hole (2-up 2-down) Lockable Stainless Steel Cabinet
ATMS718E
Exposed Box with Cold Water Bypass and Removable Lid
ATMS718R
Recessed Box With Cold Water Bypass and Removable Lid

Product details in this guide are indicative only and may change without notice.
Aquablend 1500 — 4-Hole (SA Side Inlet) Lockable Stainless Steel Cabinet  
ATMS2008R  
Recessed Box and Removable Lid

Aquablend 1500 — 4-Hole Lockable Stainless Steel Cabinet with Hinged Door  
ATMS719H  
Includes Cold Water By-Pass

Aquablend 1000 Thermostatic Mixing Valve  
ATM710  
15mm MI Inlet 20mm MI Outlet with 15mm Adaptor

Aquablend 1000 — 3-Hole Lockable Stainless Steel Cabinet  
ATM701EL  
Removable Lid only — to suit Exposed 3 hole box  
ATM710RL  
Removable Lid only — to suit Recessed 3 hole box  
ATMS710E  
Exposed Box with Removable Lid  
ATMS710R  
Recessed Box with Removable Lid

Aquablend 1000 — 3-Hole Stainless Steel Box and Removable Lid Only  
ATMS710  
Recessed  
ATMS711  
Exposed

Aquablend 1000 — 3-Hole Lockable Stainless Steel Cabinet with Hinged Door  
ATMS710H
Aquablend 1000 — 4-Hole (South Aust) Lockable Stainless Steel Cabinet
ATMS2009R  Recessed Box and Removable Lid

Aquablend 1000 — 4-Hole Lockable Stainless Steel Cabinet
ATMS119E  Exposed Box With Cold Water Bypass and Removable Lid
ATMS119R  Recessed Box With Cold Water Bypass and Removable Lid

Aquablend 1000 — 4-Hole Lockable Stainless Steel Cabinet with Hinged Door
ATMS119H  Includes Cold Water By-Pass

Aquablend 2000 Thermostatic Mixing Valve
ATM711  15mm MI Inlet 20mm MI Outlet
ATM712  Less Inlet Fittings
ATM713  20mm FI Inlet 20mm MI Outlet

Aquablend 2000 — 3-Hole Lockable Stainless Steel Cabinet
ATMS216E  Exposed Box and Removable Lid
ATMS216R  Recessed Box and Removable Lid
ATMS216RS  Recessed Box and Removable Lid with Security Torx Screws

Aquablend 2000 — 3-Hole Stainless Steel Box and Lid Only
ATMS216  Recessed
ATMS217  Exposed

Product details in this guide are indicative only and may change without notice.
Aquablend 2000 — 3-Hole Lockable Stainless Steel Cabinet with Hinged Door
ATMS216H Top Entry Inlets - Outlet at Base

Aquablend 2000 — 4-Hole Lockable Stainless Steel Cabinet
ATMS219E Exposed Box with Cold Water Bypass and Removable Lid
ATMS219R Recessed Box with Cold Water Bypass and Removable Lid

Aquablend 2000 — 4-Hole Lockable Stainless Steel Cabinet with Hinged Door
ATMS219H Includes Cold Water By-Pass

Aquablend 1500 — Solar Model
ATM715 Includes Isolation Valves

Aquablend 1500 Solar — 3-Hole Lockable Stainless Steel Cabinet
ATMS700SE Exposed Box with Removable Lid
ATMS700SR Recessed Box with Removable Lid

Aquablend 2500 Thermostatic Mixing Valve
ATM725 20mm FI Inlet 25mm MI Outlet
Aquablend 2500 Cabinet
ATMS727E  3-Hole Lockable Stainless Steel Exposed Box with Removable Lid
ATMS727R  3-Hole Lockable Stainless Steel Recessed Box with Removable Lid

Aquablend 2500 — Stainless Steel Box and Lid Only
ATMS728  Recessed
ATMS729  Exposed

Aquablend Test Kit
ATMS1200  Digital thermometer, pressure gauge, flow cup, spanner & carry case

Flow Cup
ATMS1201  Blue Flow Cup

Aquablend Spanner
ATMS1220

20mm Outlet Tail with Temperature Test Plug
ATMS200

Product details in this guide are indicative only and may change without notice.
Stainless Steel Lockable Cabinet Cover Panel
ATMS215  350 x 350mm — Security Model Torx Screw — Stainless Finish
ATMS720  370 x 370mm Epoxy Coated
ATMS721  320 x 320mm Epoxy Coated

Aquablend 1500 Spare Parts
ATMS4714  O-ring Kit to suit Aquablend 1500
ATMS4715  Thermostatic Element/Shuttle Assembly 1500
ATMS4716  Non Return Valve to suit Aquablend 1500
           Solar — 1 Only

Spare Parts for use in Aquablend 1000 and 1500 models
ATM728  Stainless Steel Wall Mounted Bracket
           — Suits 1000 and 1500 models
ATMS1205  Inlet Fitting Strainers — Two
ATMS1212  Non Return Valve 1 Only
ATMS1313  Inlet Face Seal
ATMS1314  Pressure Test Point Plug 1 Only
ATMS1211  Return Spring (suits 1000, 1500
           and 2000 models)
ATMS202  Inlet fitting O-ring

Aquablend 1000 Spare Parts — Current Model 2008 Onwards
ATMS1400  Thermostatic Element/Shuttle Assembly
           1000
ATMS1401  Top Cap Assembly
ATMS1402  Anti Tamper Cover
ATMS1403  O-Ring Kit to suit Aquablend 1000

Aquablend 1000 Spare Parts — Superseded Model PRE-2008
ATMS1203  Piston Assembly
ATMS1206  Thermostatic Element
ATMS1210  Mixed Water Temperature Adjuster
ATMS211  Return Spring (Old style, fits superseded
           1000 and 2000 models)
ATMS1215  O-Ring Kit — 2 Top Cap / 1 Spindle
           / 1 piston
ATMS1218  Upper Cartridge Assembly
ATMS1219  Lock Nut And Top Cap
### Aquablend 2000 Spare Parts — Current Model 2009 Onwards

<table>
<thead>
<tr>
<th>Part Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATMS205</td>
<td>Inlet Fitting Strainers (2)</td>
</tr>
<tr>
<td>ATMS212</td>
<td>Non-Return Valve (1 only)</td>
</tr>
<tr>
<td>ATMS213</td>
<td>Inlet Face Seal — Suits 2000 (2 in pack)</td>
</tr>
<tr>
<td>ATMS214</td>
<td>Stainless Steel Wall Mounted Bracket</td>
</tr>
<tr>
<td>ATMS230</td>
<td>O-Ring Kit</td>
</tr>
<tr>
<td>ATMS231</td>
<td>Thermostatic Element/ Shuttle Assembly (New Model - 2009 Onwards)</td>
</tr>
<tr>
<td>ATMS232</td>
<td>Temperature Adjustment Spindle and Cap Assembly</td>
</tr>
<tr>
<td>ATMS233</td>
<td>Anti Tamper Cover</td>
</tr>
<tr>
<td>ATMS501</td>
<td>ATM711 Male 1/2&quot; Inlet Fitting — HOT</td>
</tr>
<tr>
<td>ATMS502</td>
<td>ATM711 Male 1/2&quot; Inlet Fitting — COLD</td>
</tr>
<tr>
<td>ATMS703</td>
<td>ATM713 Female 3/4&quot; Inlet Fitting — COLD</td>
</tr>
<tr>
<td>ATMS705</td>
<td>ATM713 Female 3/4&quot; Inlet Fitting — HOT</td>
</tr>
<tr>
<td>ATMS714</td>
<td>Stainless Steel Wall Mounted Bracket 25mm</td>
</tr>
<tr>
<td>ATMS1211</td>
<td>Return Spring</td>
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</table>

### Aquablend 2000 Superseded Model — Pre 2009 Spare Parts

<table>
<thead>
<tr>
<th>Part Code</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>ATMS201</td>
<td>O-Ring Kit — 3 Cartridge / 1 Spindle / 1 Piston</td>
</tr>
<tr>
<td>ATMS202</td>
<td>Inlet Fitting O-Ring</td>
</tr>
<tr>
<td>ATMS203</td>
<td>Piston Assembly</td>
</tr>
<tr>
<td>ATMS204</td>
<td>Anti Tamper Cover and Locknut</td>
</tr>
<tr>
<td>ATMS206</td>
<td>Thermostatic Element (Pre-2009 Model)</td>
</tr>
<tr>
<td>ATMS208</td>
<td>Lower Cartridge Assembly (Hot Seat)</td>
</tr>
<tr>
<td>ATMS209</td>
<td>Upper Cartridge Assembly</td>
</tr>
<tr>
<td>ATMS210</td>
<td>Mixed Water Temperature Adjustment</td>
</tr>
<tr>
<td>ATMS211</td>
<td>Return Spring</td>
</tr>
<tr>
<td>ATMS704</td>
<td>Cartridge Complete</td>
</tr>
<tr>
<td>ATMS234</td>
<td>Upgrade Cartridge to fit old 2000 model</td>
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</tbody>
</table>

### Aquablend 2500 Spare Parts

<table>
<thead>
<tr>
<th>Part Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>ATMS3002</td>
<td>Cartridge Complete</td>
</tr>
<tr>
<td>ATMS301</td>
<td>O-Ring Kit 3 Cartridge / 1 Spindle / 1 Piston</td>
</tr>
<tr>
<td>ATMS302</td>
<td>Inlet Fitting Cap O-Ring 2 Pieces</td>
</tr>
<tr>
<td>ATMS303</td>
<td>Piston Assembly</td>
</tr>
<tr>
<td>ATMS304</td>
<td>Anti Tamper Cover and Locknut</td>
</tr>
<tr>
<td>ATMS305</td>
<td>Inlet Fitting Strainers (2)</td>
</tr>
<tr>
<td>ATMS306</td>
<td>Thermostatic Element</td>
</tr>
<tr>
<td>ATMS308</td>
<td>Lower Cartridge Assembly (Hot Seat)</td>
</tr>
<tr>
<td>ATMS309</td>
<td>Upper Cartridge Assembly</td>
</tr>
<tr>
<td>ATMS310</td>
<td>Mixed Water Temperature Adjuster</td>
</tr>
<tr>
<td>ATMS311</td>
<td>Return Spring</td>
</tr>
<tr>
<td>ATMS312</td>
<td>Non Return Valve 1 Only</td>
</tr>
<tr>
<td>ATMS313</td>
<td>Inlet Face Seal - suits 2500</td>
</tr>
<tr>
<td>ATMS702</td>
<td>ATM725 Female 3/4” Inlet Fitting — COLD</td>
</tr>
<tr>
<td>ATMS706</td>
<td>ATM725 Female 3/4” Inlet Fitting — HOT</td>
</tr>
<tr>
<td>ATMS726</td>
<td>Stainless Steel Wall Mounted bracket — Suits 2500 model</td>
</tr>
</tbody>
</table>