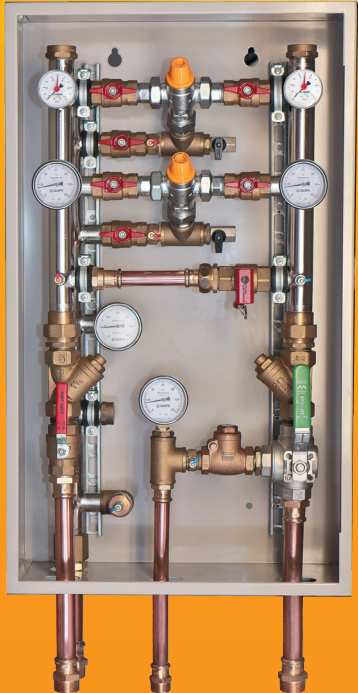


Please Wash
Your Hands



Safe Warm Water and Water Disinfection for the Healthcare Industry

*Leading solutions in
warm water systems*



Save energy and save money on installation and maintenance

Tempermate™ Warm Water System Solutions deliver safe temperature controlled heated water between 38 - 50°C for installations such as health, aged care facilities, schools as well as a variety of commercial applications.

APT Systems - leading warm water solutions

The Tempermate™ incorporates the market leading Caleffi solar 25mm TMV technology, designed and engineered for superior temperature control, performance and reliability.

As service and maintenance costs continue to rise, multi – point and point of use thermostatic based systems become more labour intensive and costly to manage and maintain.

Tempermate™ minimises installation and commissioning costs associated with alternate systems, allowing your focus to remain on managing your facilities overall water system health in accordance with Health Department Policy Directives.

Cost Effective Warm Water Solution

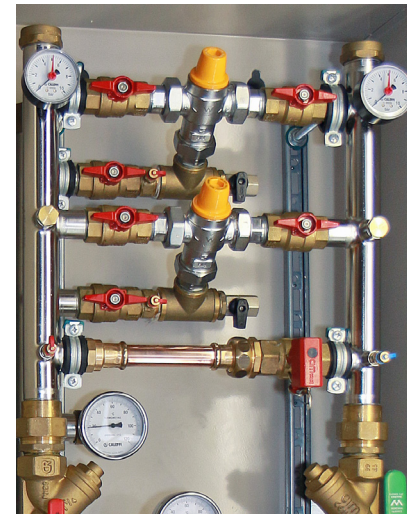
- Reduces installation and maintenance cost
- Simplified installation with a fully engineered, pre-plumbed and factory assembled solution
- Efficient compact design

Improved maintenance of the system

- Maintenance can be managed from one central location
- Reduced service time for programmed maintenance
- No disruption of the warm water supply during maintenance
- Integrated temperature and pressure monitoring
- Thermal disinfection for improved system health



Tempermate™ System Specifications					
MODEL	UNITS	APT80	APT160	APT240	APT320
Temperature Adjustment Range	°C	30 - 50			
Factory Pre-Set Temperature	°C	41			
Temperature Control	°C	(+/-) 2			
Cold Inlet Temperature Supply (Min - Max)	°C	5 - 30			
Hot Inlet Temperature Supply (Min - Max)	°C	55 - 100			
Maximum Working Pressure (Static)	kPa	1400			
Working Pressure Range (Dynamic)	kPa	20 - 500			
Maximum Unbalanced Dynamic Supply (H/C or C/H)		2 : 1 (10% recommended)			
Minimum Hot In and Mixed Out Temp Diff For Shut Off	°C	10			
Minimum Mixed Out and Cold In Temp Diff For Stable Operation	°C	5			
Minimum Flow Rate For Stable Operation	l/min	4	8	12	16
Maximum Design Flow Rate	l/min	50	100	150	200
Maximum Rated Flow	l/min	80	160	240	320
Connections – Inlet	mm	32	32	40	40
Connections – Outlet	mm	32	40	50	50



Measurements				
Cabinet				
Model	APT80	APT160	APT240	APT320
Y Height (mm)	850	920	1200	1200
Weight (kg)	30	42	52	58

Health and Water Risk Management Plans

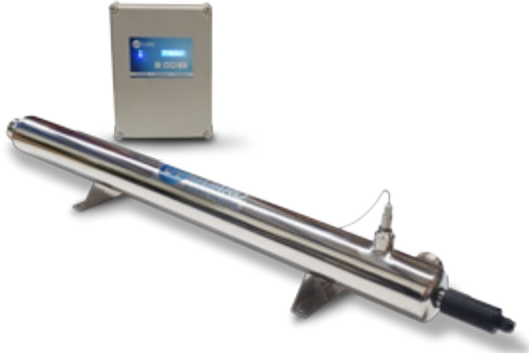
A significant focal shift towards the creation, implementation and actioning of Water Risk Management Plans, along with mandatory notification and reporting requirements of water system health is now well underway across Australia. Proposed penalties for mismanagement reflect the significant responsibility healthcare, aged care and other like type facility providers have for proactively managing and controlling the health risks to their patients and residents.

The Tempermate™ is an energy efficient centralised warm water distribution system which is used in combination with a disinfection technology to deliver improved water health as a part of your Water Risk Management Plan.



“Focal” UV and “Systemic” Thermal Disinfection

For efficient, low cost and environmentally friendly legionella control, the Tempermate™ can be supplied complete with UV disinfection. UV light kills pathogenic micro-organisms fast without leaving any residue, harmful by-products or affecting water smell or taste.



UV systems are effective as a primary source of disinfection for the incoming water supply, however, it does not provide residual disinfection at distal sites. It is therefore recommended that UV systems be used in conjunction with a secondary disinfection method such as periodic thermal disinfection as part of the system’s overall disinfection strategy.

The Tempermate™ unit offers a built thermal disinfection feature which, when used together with UV, provides a suitable level of protection from Legionella in the warm water system.

Dosing disinfection options

Sometimes a system may not be suitable or practical for UV and thermal disinfection. For example, some larger systems may not be capable of flushing each outlet for a minimum of five minutes, whilst maintaining the pasteurisation temperature, which often means these types of healthcare facilities have introduced onsite dosing systems. Onsite disinfection of the water supply has increased the overall level of control that the facility operators have over their potable water quality. Onsite dosing is only effective if used in conjunction with an appropriate microbial water quality plan that correctly manages all stages of the potable water supply.

Copper Silver Ionisation

Copper-Silver CU-AG ionisation disinfection is a superior solution with a world-wide proven track record for the elimination and effective ongoing control against Legionella and other micro-biological colonisations. We have partnered with the market leading provider of CU-AG systems in Australia with technologically advanced proportional dosing to ensure optimum levels are delivered into the water supply for efficient and safe operation.

Copper Silver is:

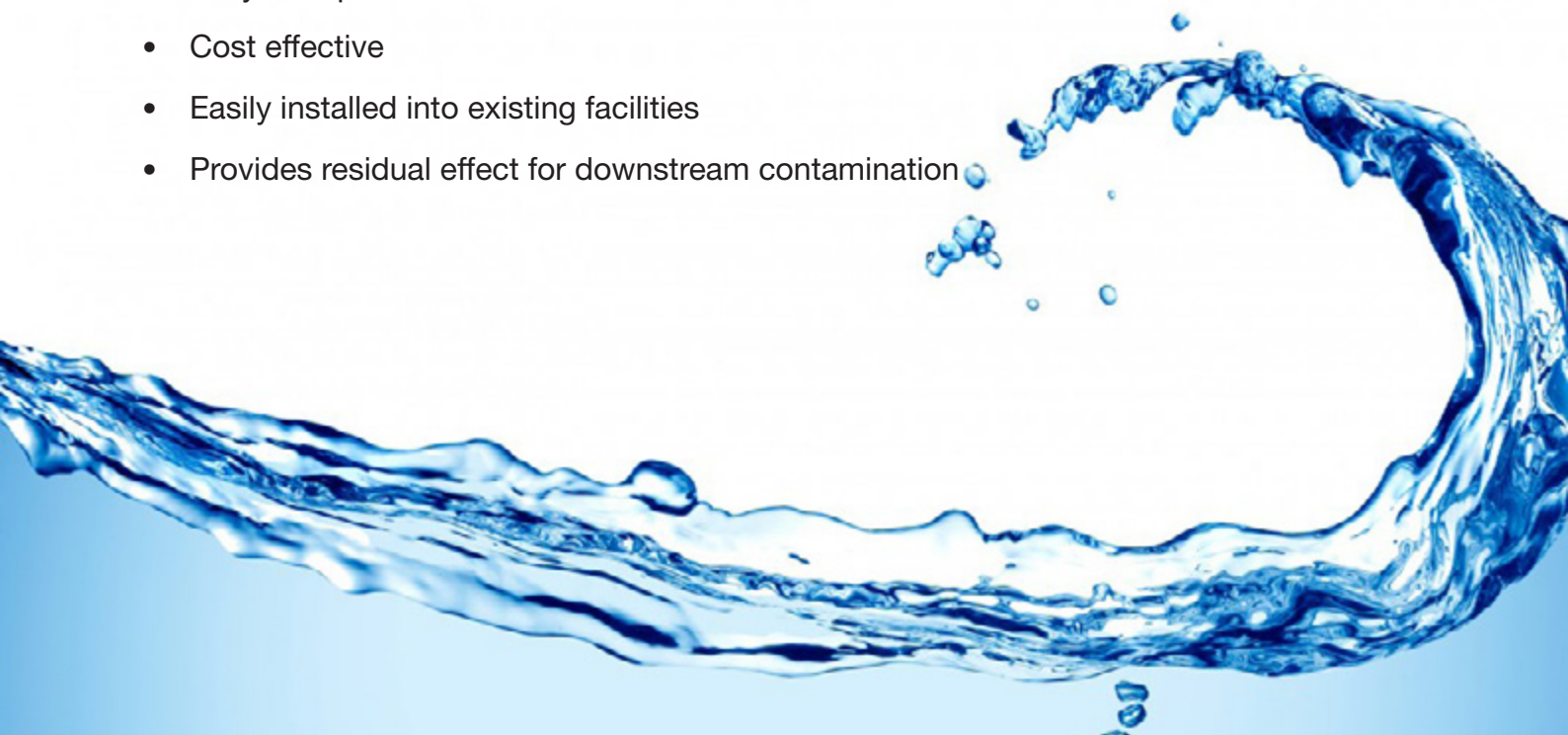
- Environmentally friendly
- Maintains efficacy of potable water
- Does not corrode piping or plumbing fixtures
- Remains effective at all water temperatures
- Easily installed into existing facilities
- Provides residual effect for downstream contamination
- Eradicates biofilm from within the plumbing system

Biofilm is a nutrient-rich slime layer that harbours and protects microorganisms from many disinfectants and harsh environmental conditions such as increased water temperatures and even chemicals such as chlorine.

Chlorination

Chlorination would be the most prevalent disinfection solution in the industry. Careful planning is essential when installing onsite chlorine dosing equipment, as it can lead to other risks such as corrosion of pipework, incorrect storage of dangerous goods and generation of undesirable by-products. Chlorination is;

- Easy to implement and monitor
- Cost effective
- Easily installed into existing facilities
- Provides residual effect for downstream contamination





Contact us today

Contact us today to discuss your warm water system requirements on 02 8543 9811.

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