



**COMMERCIAL**

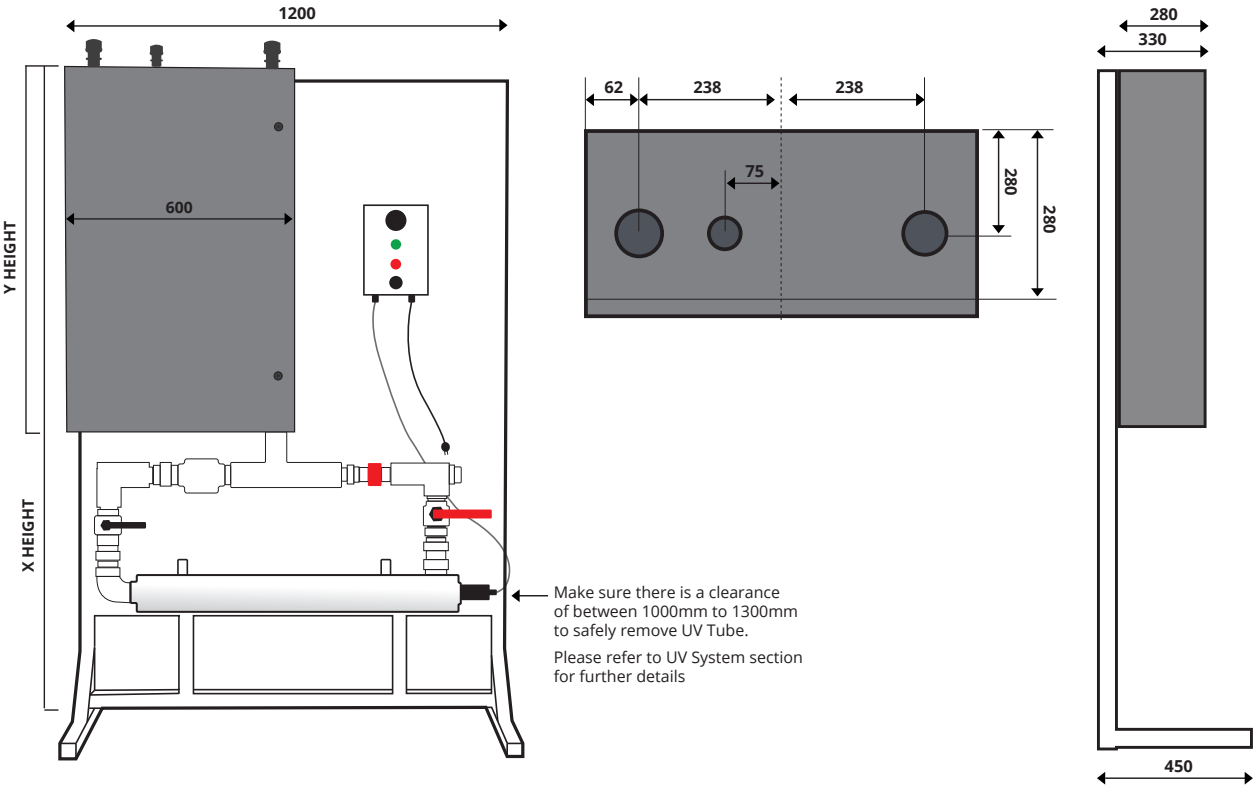


**TEMPERMATE™**

# TEMPERMATE™

The Apricus Tempermate™ Warm Water Systems provide water at a safe and usable temperature in situations where water delivery temperature is of the utmost importance. Tempermate™ systems are designed to suit applications ranging from hospitals to schools and aged care facilities for required temperatures between 43-50°C. For these building applications, the Tempermate™ unit allows for a centralised warm water distribution system as opposed to requiring mixing valves at each hot water outlet, saving money on installation and maintenance costs as well as saving energy by minimising heat loss through the building's piping network.

The units are fully engineered, pre-plumbed and factory assembled, designed to make installing commercial warm water systems easy. They are built for the installer, where the unit can be craned to site, wheeled to the plant room and only requires 4 plumbing connections to be made. Temperature and pressure gauges are prebuilt into the system, as well as individual testing points for easy monitoring.



MEASUREMENTS				
CABINET				
MODEL	APT80	APT160	APT240	APT320
Y HEIGHT (mm)	600	950	1200	1200
WEIGHT (kg)	30	42	52	58
FRAME MOUNTED				
MODEL	APT80	APT160	APT240	APT320
X HEIGHT (mm)	1860	1860	2260	2260
WEIGHT (kg)	65	77	92	98

## FEATURES

- ENGINEERED, ASSEMBLED AND TESTED
- LOW INSTALLATION COST
- CENTRALISED, UNINTERRUPTED SERVICING
- BUILT IN DISINFECTION OPERATION
- SIMPLE SYSTEM MONITORING
- NO ELECTRICAL CONNECTIONS
- COMMERCIAL 5 YEAR WARRANTY\*



\* 5 Year on TMV's, Ball Valves, Strainer, Fittings and Pipe within Cabinet. 1 Year on Cabinet and Frame.

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			
MAX UNBALANCED DYNAMIC SUPPLY (H/C OR C/H)		6 : 1			
MIN HOT IN AND MIXED OUT TEMP DIFF FOR SHUT OFF	°C	10			
MIN MIXED OUT AND COLD IN TEMP DIFF FOR STABLE OP	°C	5			
MIN FLOW RATE FOR STABLE OPERATION	l/min	4	8	12	16
MAX NOMINAL FLOW RATE	l/min	60	120	180	240
MAX RATED FLOW	l/min	80	160	240	320
CONNECTIONS - INLET	mm	25	32	40	40
CONNECTIONS - OUTLET	mm	32	40	50	50

# UV SYSTEM

The Apricus Tempermate™ can be supplied complete with UV disinfection as an efficient, low cost and environmentally friendly method of legionella control. UV light kills pathogenic micro-organisms quickly without leaving any residues, harmful by-products or affecting the smell or taste of the water.

**The UV disinfection systems come supplied with:**

- Volt free contacts for remote system status indication
- Lamp fail alarm; alerts user and prevents untreated water from being consumed
- Industrial IP rated outdoor power boxes with hour run time

Further Optional Components are available for UV disinfection systems:

**Automatic Temperature Shut Off**

Automatic shut off of the supply of water in cases of high temperature at the warm water supply outlet (greater than 60°C). This protects both the users of the system from scalding, as well as the UV system from high temperatures which would otherwise decrease the longevity of the lamp. A minimum pressure differential of 50kPa is required for suitable flow (30l/min) through the solenoid in normal operating conditions.

**UV Intensity Monitoring**

An optional UV intensity monitoring is able to be installed on the UV chamber.

A UV intensity monitor will give the building operator peace of mind and alerts when:

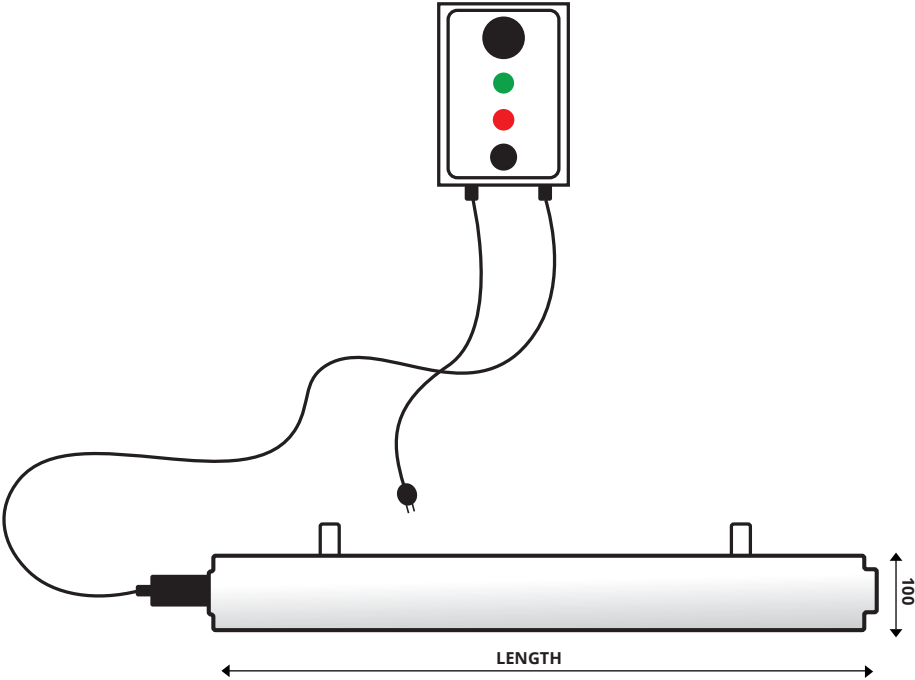
- Quartz thimble is fouled
- Water quality has deteriorated
- Lamp fails

## FEATURES

- AUSTRALIAN DESIGNED AND MADE
- INDUSTRIAL IP65 WEATHERPROOF BOX
- EASE OF USE DIGITAL DISPLAY
- ANIT-TAMPER PASSWORD PROTECTED MASTER MENU
- DIGITAL LAMP HOUR RUN METER
- DIGITAL BALLAST TOTAL HOUR RUN COUNTER
- INTEGRATED UV MONITORING
- BMS CONNECTION FOR REMOTE MONITORING
- REMOTE CONTROLLABLE
- 2 YEAR WARRANTY\*



\* 2 Year on Chamber, 1 Year on Lamp, Power Supplier and Solenoid Valve



UV SYSTEM MEASUREMENTS		
MODEL	S80-100	S160-100
LENGTH (mm)	600	950
CLEARANCE TO REMOVE UV TUBE (MM)	1000	1300
COMPONENT WEIGHT (kg)	7	10
PLUMBED WEIGHT (kg)	15	20

UV SYSTEM SPECIFICATIONS				
MODEL		UNITS	S80-100-S-1.75	S160-100-S-2
FLOW RATE PER UV DOSE FIGURE**	40MJ/CM2	l/min	118	271
	30MJ/CM2	l/min	157	361
CONNECTION		mm male BSP	40	50
LAMP POWER		W	80	160
**Approximate flow rates calculated using 'UVCalc' software and are based on a UV transmittance (UVT) of 85% and a UV dose at the end of lamp life				



# COMMERCIAL

**APRICUS AUSTRALIA PTY LTD**

ABN: 12 111 285 27

**Postal Address:** PO Box 6109, Silverwater NSW 181

**Phone:** 1300 277 428

**[www.apricus.com.au](http://www.apricus.com.au)**