

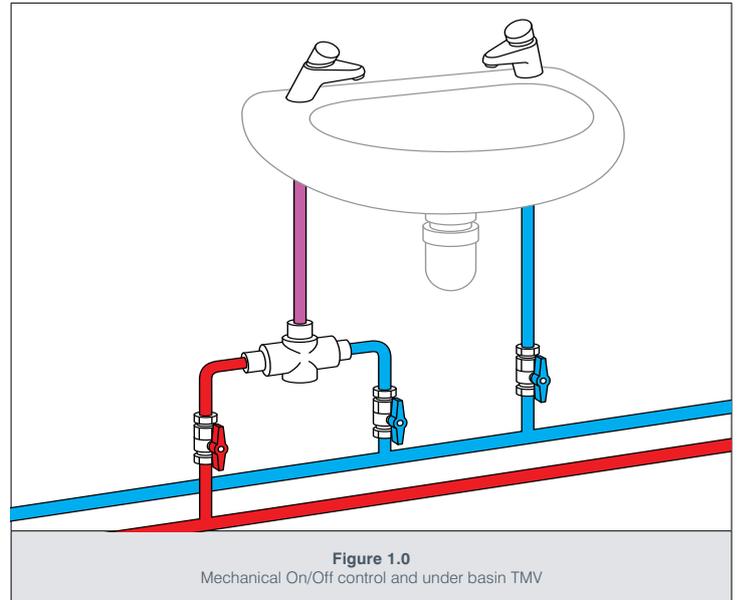
WHAT ARE THE CHOICES WHEN IT COMES TO SELECTING POINT OF USE TEMPERATURE CONTROL DEVICES?

- Two options - a product that provides simple on/off control or a product that can blend hot and cold water at the point of use.
- These can be further categorised by the type of technology they use - mechanical, electronic or digital control.
- Typically simple on/off controls can be mechanical or electronic while mixing valves can be mechanical, electronic or digital.

OUTLETS WITH ON/OFF FLOW CONTROL

These products generally require the water to be blended safely by a separate Thermostatic Mixing Valve (TMV) prior to delivery at the point of use. They can be installed straight onto the water supplies if scalding is not considered a risk.

Mechanical – a product (tap, shower, bathfill, bath/shower) that provides premixed water or hot and cold water at the point of use. It is operated by the user with a lever, push button or knob control, see **Figure 1.0**



Electronic - a product (tap, shower) that provides premixed water or cold water at the point of use, operated by a sensor (touch and/or non-touch) individually – battery operated (Figure 2.0) or centrally controlled (Figure 3.0 - these products require mains power supplies to operate).

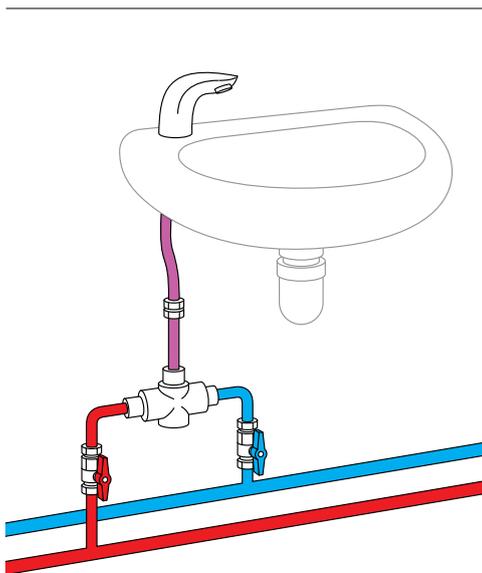


Figure 2.0
Individual Electronic On/Off control and under basin TMV

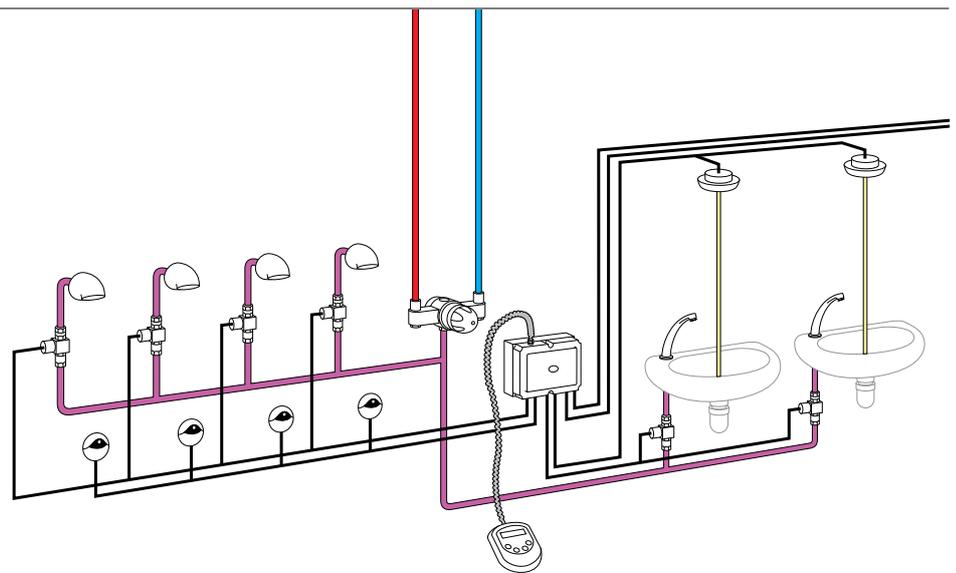


Figure 3.0
Group Electronic On/Off control

OUTLETS WITH INTEGRAL THERMOSTATIC CONTROL

This group can be divided into the following:

Mechanical – a product (tap, shower, bathfill, bath/shower) that blends hot and cold water at the point of use, operated by the user with a lever or knob as shown. See **Figure 4.0, 5.0 & 6.0**

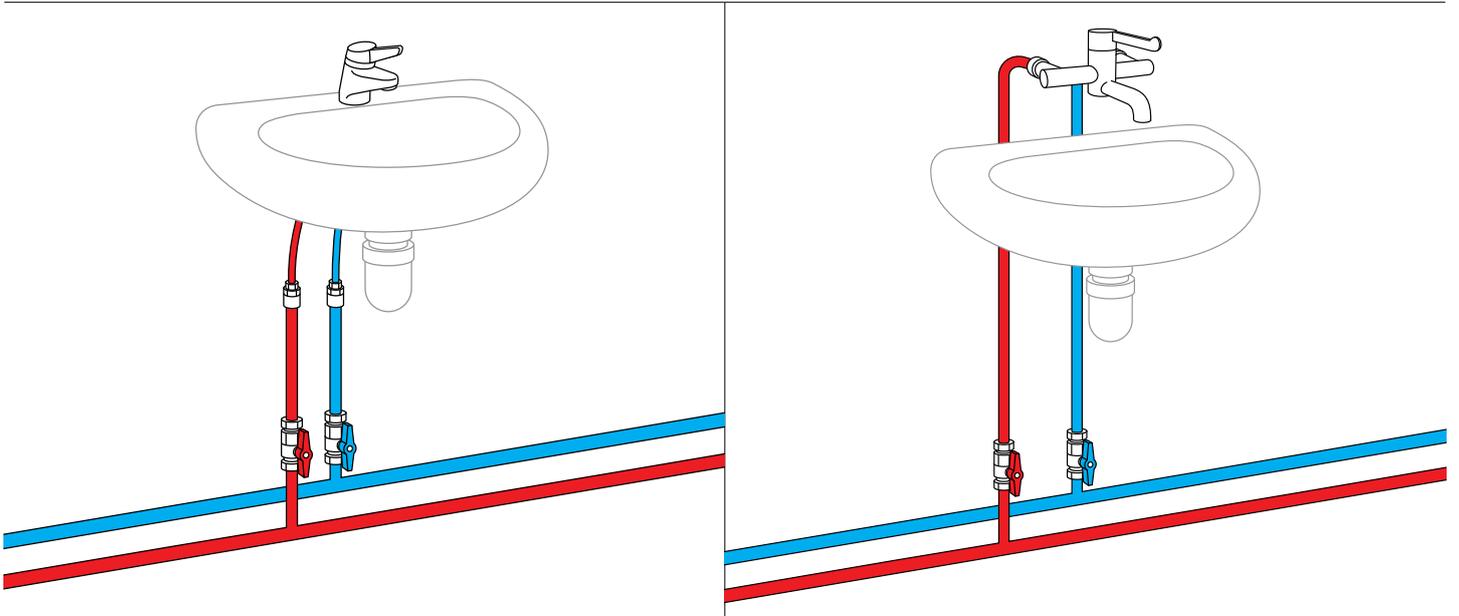


Figure 4.0

Hand Washing – basin or wall mounted options with single lever sequential operation.

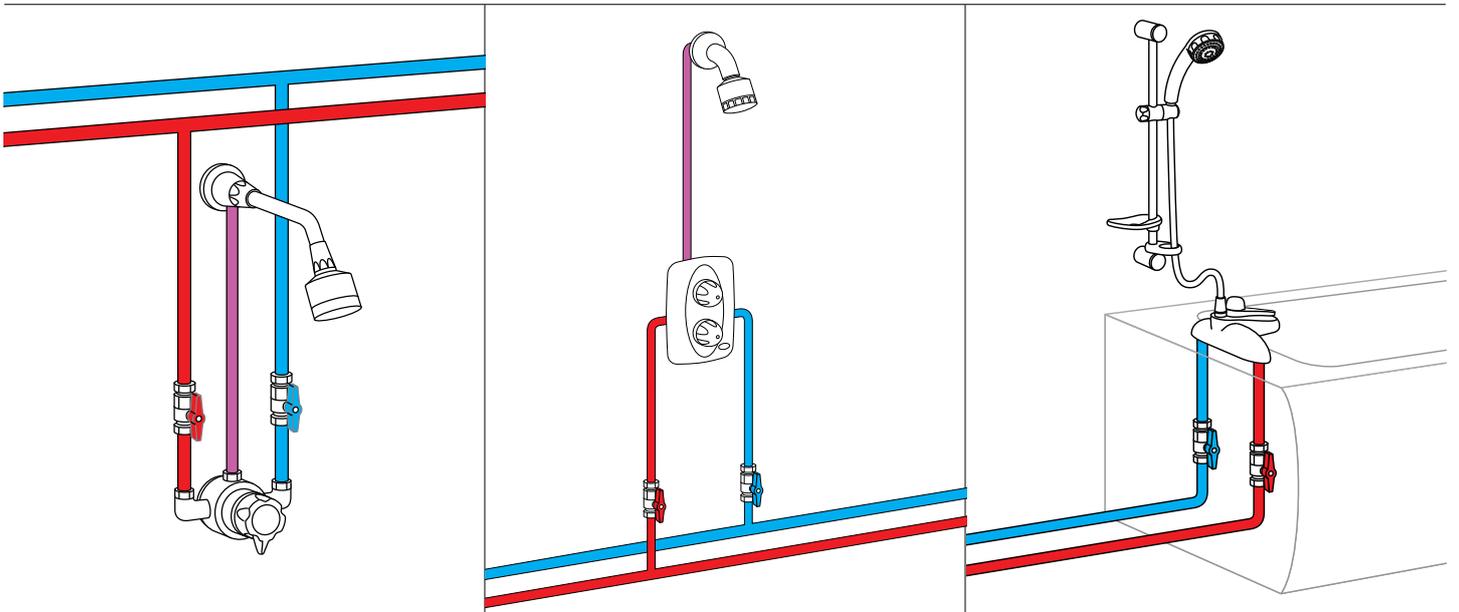


Figure 5.0

Showering – exposed or concealed options illustrating dual lever temperature and flow control, or single lever sequential control.

Figure 6.0

Bathfill or Bath/Shower (illustrated) where one lever is used to divert between showering and bathfill modes, whilst a separate temperature knob allows alternative temperature selection. Full thermostatic control is provided for both bathfill and showering

Digital - a bath/shower that blends hot and cold water operated by the user with a non-touch sensor. These products provide superior thermal control and unique hygiene benefits from duty flushing and thermal disinfection programmes. They can be programmed and used to understand water usage for a given outlet. These products require mains power supply to operate.

Figure 7.0 & 8.0

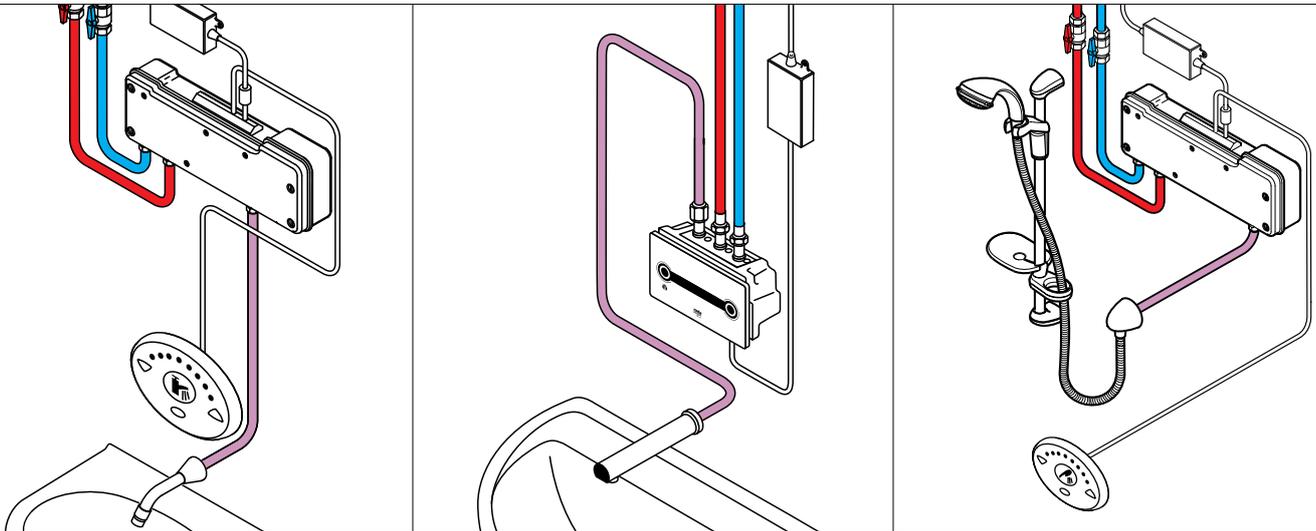


Figure 7.0

Digital washbasin with sensor control (left) and spout and sensor control (middle). Digital shower with sensor control (right). Each incorporating thermostatic control (TMV).

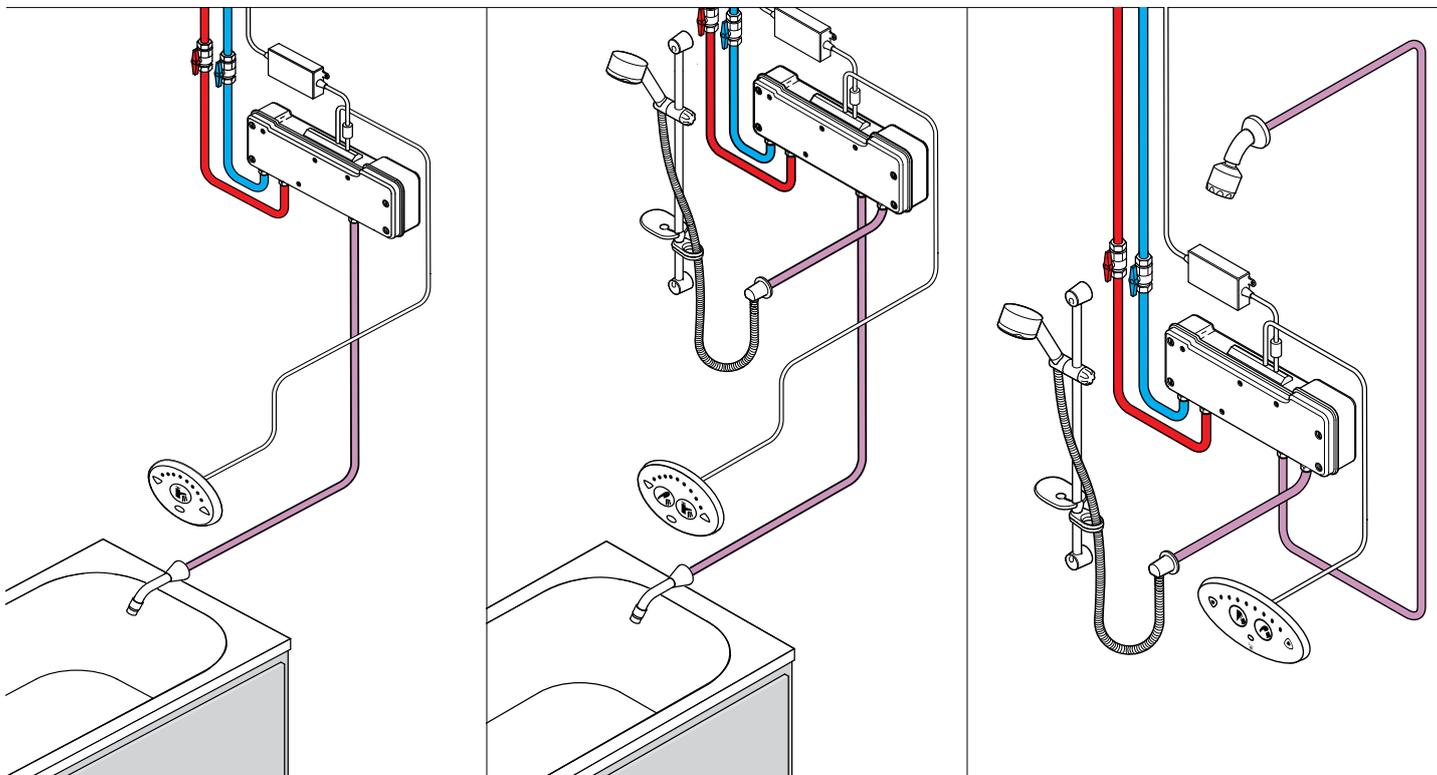


Figure 8.0

Digital bathfill (left), bath/shower (Middle) and dual shower (right). Each with sensor control and incorporating thermostatic control (TMV)

TYPES OF COMMERCIAL POINT OF USE TEMPERATURE CONTROL DEVICES

WHAT TO INSTALL?

What product to choose and install should really be determined by location and type of use. Consider who will be using it and how frequently. See the table below to help in the selection of the correct product type and TMV choice.

	APPROVALS	PUBLIC WASHROOMS	HOTEL/GUEST HOUSE	LEISURE/SPORTS CLUB	NURSERY	SCHOOL	DOCTOR/DENTIST	NURSING/CARE HOME	HOSPITAL
ENVIROMENT									
RADA DIGITAL WASHROOM CONTROLS	TMV			B					
	TMV2		B		S	S			
	TMV3				B	B	B	S	S
INDIVIDUAL SHOWERING	TMV	B		B					
	TMV2		B		S	S			
	TMV3				B	B	B	S	S
GROUP SHOWERING	TMV								
	TMV2								
	TMV3			B		B			
HAND WASHING	TMV	B		B					
	TMV2		B		S	S			
	TMV3				B	B	B	S	S
ELECTRONIC WASHROOM CONTROLS									
• SHOWERING	N/A	B		B		B		B	B
• HAND WASHING	N/A	B		B		B		B	B
• URINAL FLUSHING	N/A	B		B		B		B	B
• WC FLUSHING		B		B					
BATHING	TMV								
	TMV2		B						
	TMV3							S	S

KEY TO TABLE	
Best Practice	B
Standard Requirement	S
Applications with Increased Legionella risk	

Note: This information is for general guidance only. Please refer to our Commercaill Technical Support Team (details available online) for specific product advice.