

# Installation of temperature control devices

This infosheet is intended to provide guidance as to when a temperature control device is required to be installed on a heated water installation.

## General Information

Heated water services are regulated in Tasmania under the *Building Act 2016*. These installations must be installed and maintained in accordance with the National Construction Code (NCC).

NCC Volume 3, Plumbing Code of Australia (PCA) Heated Water Services sets out the requirements for any part of a heated water service of a property that is connected to the drinking water supply. It covers from the point of connection to the points of discharge.

Under the Deemed-to-Satisfy Provisions of the PCA, maximum delivery temperatures are applicable to heated water at the outlet of each sanitary fixture. The PCA must be read in conjunction with the Tasmanian variations to this requirement, which state the following:

- **Tasmanian Application:** this applies to both new and replacement heated water installations for personal hygiene purposes.
- **Tasmanian Exemption:** this does not apply to the replacement of a single heated water storage unit within a range or bank of heaters.

This means when you replace an existing water heater connected to sanitary fixtures, a temperature control device must be installed to ensure that the correct temperature is achieved at the outlet of all sanitary fixtures.

When installing a new temperature control device to an existing system, the contractor must ensure that any circulated hot water system remains compliant with minimum circulated temperature requirements to prevent the development of any pathogens.

The PCA identifies suitable control devices that must be used for various building classifications and uses. This should be read in conjunction with the Tasmanian variation listed in the TAS Appendix.

The table starting on the next page is provided as a guide to when a temperature control device is required.

Heated water service replacement /additions scenario	Temperature control device required?	Additional comments
Replacement of an existing heater with (like-for-like) new heater	Yes	
Replacement of an existing heater with an alternate model, size or heat source	Yes	
Repositioning of an existing heater to a new location	Yes	
Replacement of any associated valves, elements or thermostats on an existing heater etc	No	Not an additional requirement
Replacement of more than one water heater installed in a manifold system	Yes	
Replacement of a single water heater in a manifold bank of heaters	No	
Replacement of a heater unit where currently only a temperature control touch-pad is installed	Yes	
An installation where the new or replacement water heater is temperature limited to 50°C <u>and</u> marked as compliant with AS 3498	No	Only suitable in applications where outlet temperatures up to 50°C are permitted
	Yes	Where a maximum 45°C is required as per PCA
New sanitary fixtures connecting to the existing heated water service, but no work is carried out on the existing heater and there is no existing temperature control device installed on the existing sanitary fixtures	Yes	Only new fixtures installed are required to have a temperature control device but consider best practice in relation to existing fixtures.
Replacement of existing plumbing fixtures or fixture taps and there is no existing temperature control device	No	Example - replacement of a basin tap
Replacement of existing solar collection panels/tubes only	No	
Fixtures not for personal hygiene use e.g. in domestic kitchen and laundry	Optional	Consider best-practice where a higher temperature is required for the satisfactory operation of a fixture or appliance.

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