

# What is a cooling water system?

The South Australian Public Health (Legionella) Regulations 2013 (the Legionella Regulations) define a cooling water system as:

*A heat exchange system that consists of a heat-generating plant, a heat-rejection plant, interconnecting water recirculating pipe work and associated pumps, valves and controls, and includes a cooling tower or evaporative condenser.*

## Components of a cooling water system

A cooling water system may consist of an individual cooling tower or evaporative condenser, or a number of inter-connected cooling towers and / or evaporative condensers that utilise the same recirculating water.

If cooling towers or evaporative condensers on the same site do not share the same recirculating water, then they are considered to be separate cooling water systems.

## Cooling towers

Under the Legionella Regulations, a cooling tower has the same meaning as in AS/NZS 3666.1, which is defined as:

*A device for lowering the temperature of water by evaporative cooling in which atmospheric air is in contact with falling water, thereby exchanging heat. The term also includes those devices that incorporate a water refrigerant or water-water heat exchanger.*

## Requirements for cooling water systems

All cooling water systems must be registered with the relevant authority. This is usually the local council.

Fees associated with registration, registration renewal and annual inspection apply to each cooling water system.

The most up to date schedule of fees is published on SA Health's website: <http://www.sahealth.sa.gov.au/legionella>



## For more information

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