



LegioGuard

Excellence in Legionella Control

Summary

- LegioGuard have designed, built and tested the worlds first commercially viable Legionella Free hot water plant.
- LegioGuard have other options available for risk mitigation in sensitive facilities such as hospitals and aged care.
- It is less expensive to purchase than current installations (multiple Thermostatic Mixing Valve's – TMV's)
- It is less expensive to install than current installations (multiple TMV's)
- It is less expensive to maintain than current installations (multiple TMV's)

Background

- Throughout Australia and indeed worldwide, there is a requirement for facilities such as Hospitals, Medical Clinics, Aged Care, Childcare, and Mental Health to provide tempered hot water (warm water) to reduce the risk of scalding and burns attributed to high temperature hot water.
- This requirement for warm water provides a positive environment for the colonisation of Legionella bacteria.
- The provision of safe, reliable, controlled temperature, sanitised tempered water has become paramount when designing, installing and maintaining these systems.
- Existing systems have various shortcomings, or inherent design problems, and are expensive to install and maintain.
- LegioGuard is the solution which addresses all historical and future challenges.

The LegioGuard story so far.....

LegioGuard is the result of a joint effort between Rockford ASM Pty Ltd & Quantum Health Ltd. This collaboration has provided the technical, sales, service and distribution required to bring LegioGuard to market.

LegioGuard has developed a range of solutions for delivering tempered water in new and existing distribution systems.

Objectives

- Mitigate or remove risks associated with warm water systems
- Reduce capital, installation and maintenance costs
- Simplify design and installation criteria
- Streamline maintenance and compliance requirements



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The Product Range

There are three different options offered, which ensures there is a LegioGuard option to suit all facilities and markets.

LegioGuard Ultra

Provides Legionella free hot, tempered and cold water to sanitary fixtures.
Suitable for new installations and retrofits.

LegioGuard Plus

Provides legionella free hot and tempered water to sanitary fixtures.
Suitable for retrofits where the Ultra is not possible.

LegioGuard Hybrid

Provides the lowest risk system currently available.
Best possible option for direct replacement of traditional warm water system.



Dual Cylinder design. Front of line system TMV. Thermally sanitised water on hot and cold inlet to TMV. Storage water above 60°C. Warm water 36-53°C. Cold water 10-20°C. Provides legionella free warm and cold water supply to distribution network.



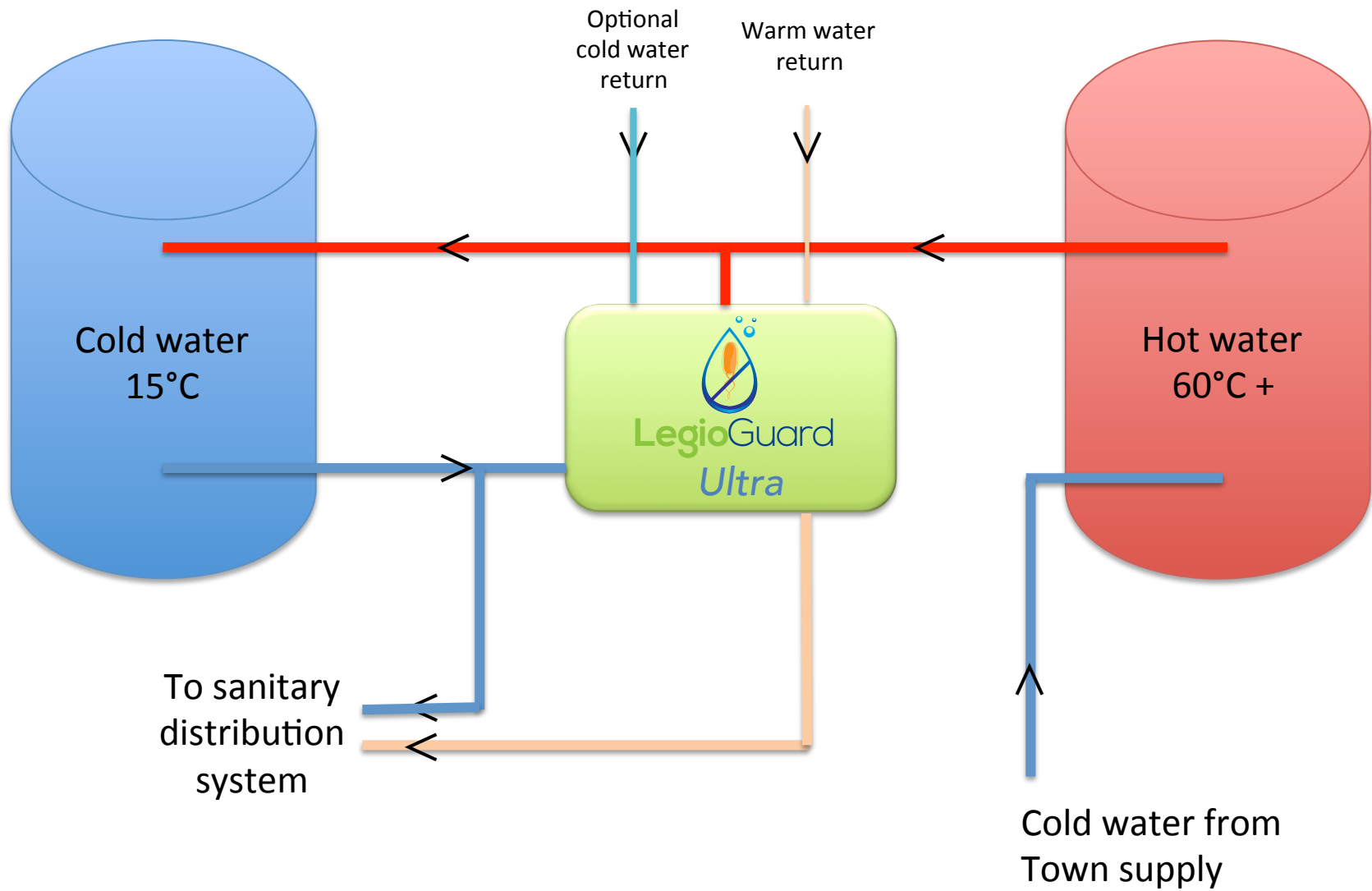
Dual Cylinder design. Front of line system TMV. Thermally sanitised water on hot and cold inlet to TMV. Storage water above 60°C. Delivered water 36-53°C. Provides legionella free warm water supply to distribution network. Suitable where cold water system does not suit the Ultra.

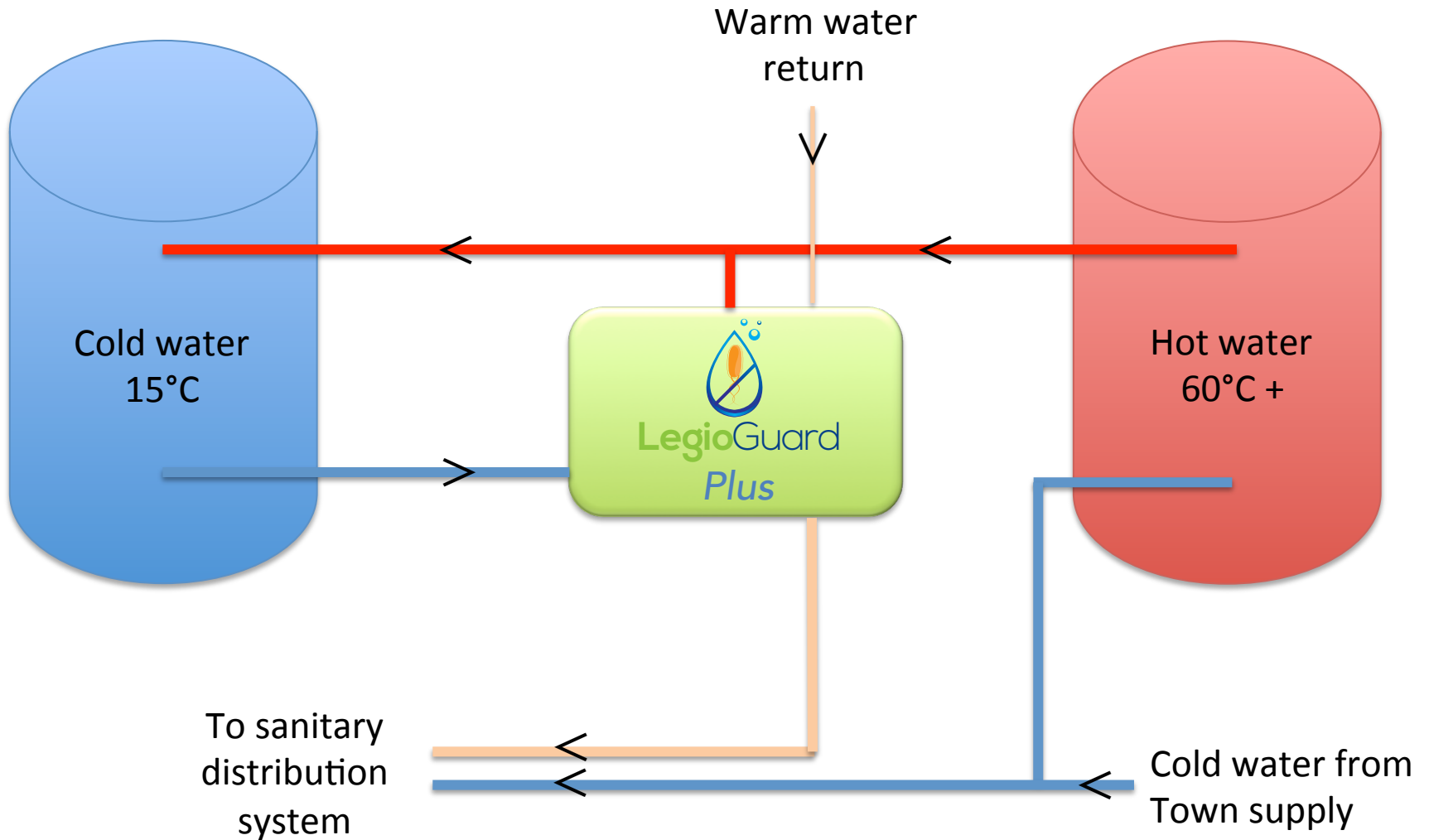


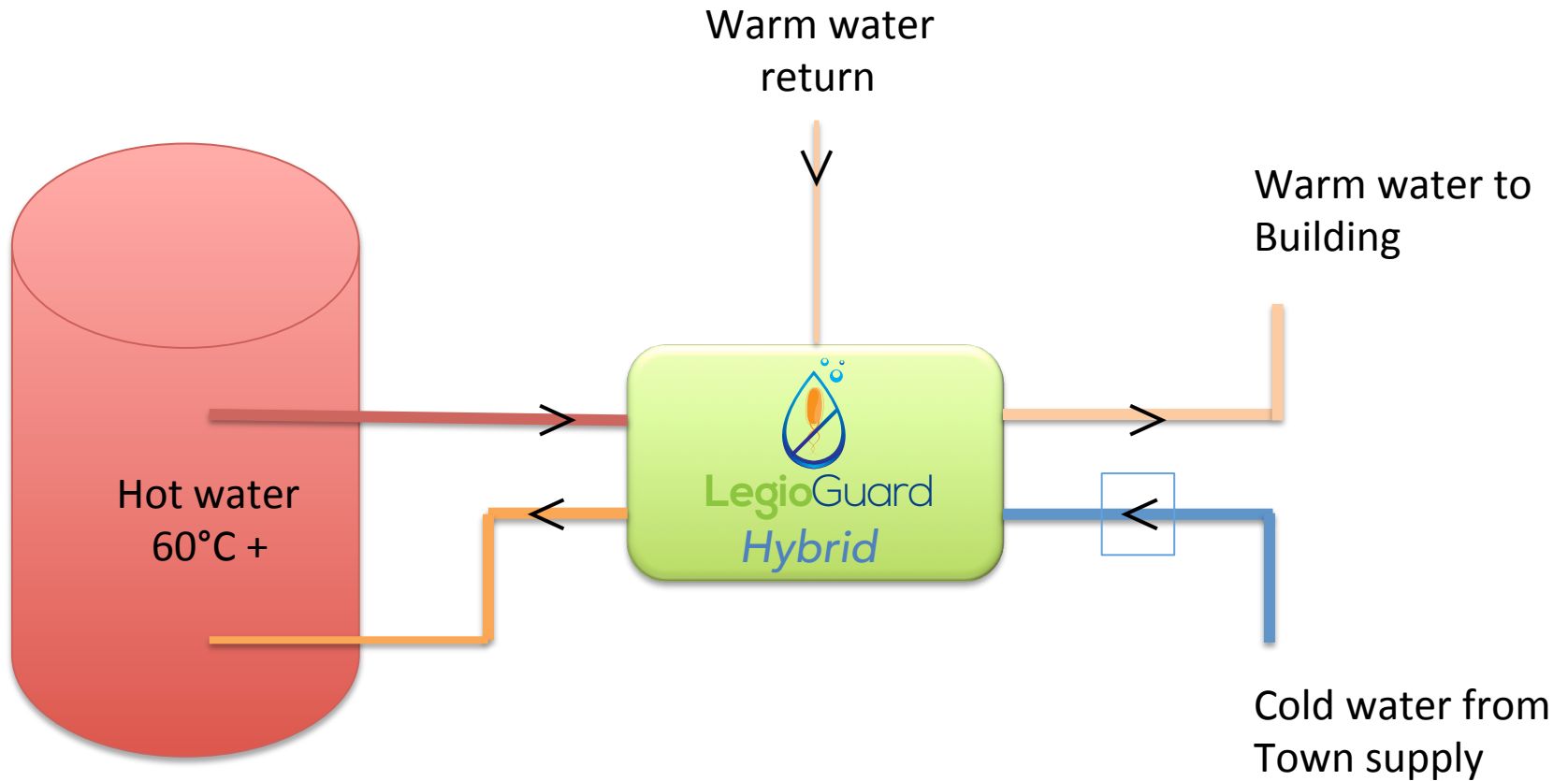
Front of distribution system TMV. DN20-DN50. 40-380 LPM. Storage water above 60°C. Delivered water 36-53°C. Suitable where current WWS requires upgrading and budget or design constraints make complete upgrade unviable.



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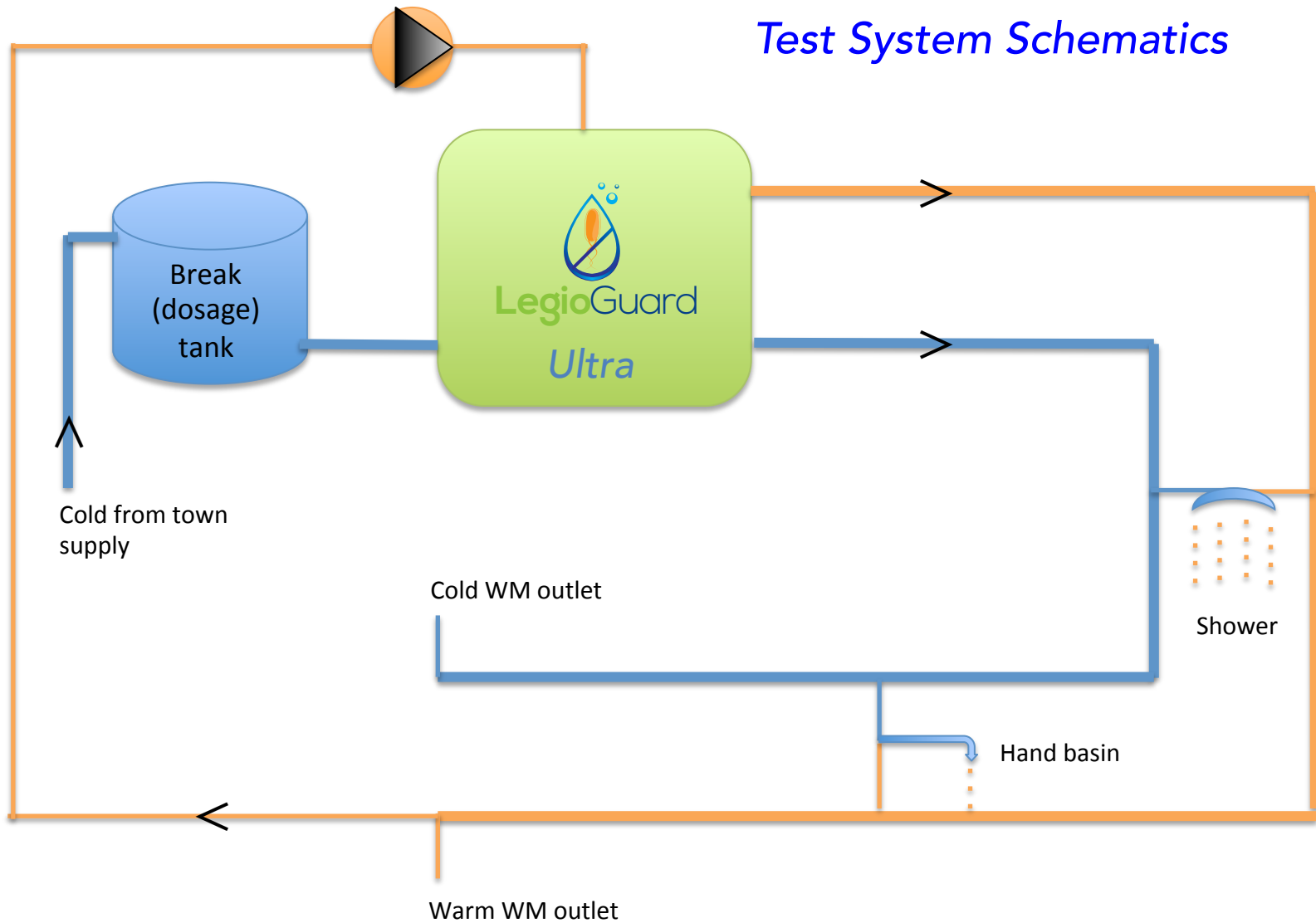


Testing and certification

- Current Watermark certification is in place for the LegioGuard Hybrid System, which is a core component of all versions.
- Flinders University (Environmental Health) Drs. Michael Taylor and Harriet Whiley, have completed an extensive testing regime on the LegioGuard Ultra system to certify it is indeed legionella free as claimed.
- The following diagram represents the schematic layout of the test system.
- Copies of the test report can be downloaded from our website

www.legioguard.com.au

Test System Schematics



Range & Specifications

- The valve system (common to all models) is available in 5 sizes from DN20mm to DN50mm, with flow rates of 40-380 litres per minute.
- The heat pump will be engineered initially in 15, 20 and 30kW versions.
- Storage cylinders with capacities of around 600, 750 and 900 litres will be the primary options.
- Larger versions will be engineered it time to suit higher demand and hospitality sites.
- Similarly, smaller versions will be added to cater for the domestic market and facilities such as health care and dentists.

Installation, operation and maintenance

LegioGuard offer a complete consultancy service for existing facilities, including Identifying and managing water distribution risks and critical system designs. We are also able to develop water management plans for all facilities.

LegioGuard are very closely engaged during the installation and commissioning stages of our installations.

In conjunction with all stakeholders, we develop a tailored maintenance plan to ensure continued trouble free operation of your LegioGuard system.

We are able to fully maintain our systems, so there is no input from facility staff, or involve facility stakeholders at whatever level they feel appropriate.



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