

Water System Configuration

The local municipal water supply enters the hotel and after the kitchens have been supplied it enters two storage tanks each holding 120 m³. This water is then pumped to provide the cold water service to all rooms and to the calorifiers to provide all the hot water services in the hotel, including the kitchens.

Customer Requirement

The customer is aware that there is a real risk of Legionnaires' Disease as the water services are used in showers in all guest rooms. Aware that an outbreak of Legionella can be disruptive for the business and has the potential for legal action and costs the hotel management gave priority to providing the highest possible standard of treatment to reduce the Legionella potential to the lowest level of risk.

Competition

Alternative technologies were offered but were unable to provide protection to the whole water system.

Systems for the additional dosing of sodium hypochlorite were rejected due to potential odour and corrosion.

An Alternative chlorine dioxide (ClO₂) system was considered.

Why Activ-Ox™

The engineering staff at the hotel were attracted by the low capital cost of the unit and the ease of managing the Activ-Ox 3000 STANDARD system.

The simplicity of the system meant that the hotel's own facility services technicians can provide first response to any alarms.



Outcome

The Activ-Ox 3000 STANDARD was installed in the basement plant room to disinfect the water after the softening and prior to entry to the water storage tanks.

The system was supplied with the facilities for hands free chemical delivery to reduce the movement of chemicals in tanks through the basement plant room.

Summary:

- The system has been in operation for nine years.
- The ClO₂ reserves are regularly monitored and the water systems sampled for Legionella bacteria. All results have been satisfactory.
- The hotel's Facilities Engineers are very pleased with the cost of the system and the performance.
- The Activ-Ox system is now standard equipment for all hotels in the group