CASE STUDY

130,000L/h RECYCLED WATER DISINFECTION SYSTEM

Clearmake®
WATER TREATMENT & RECYCLING SOLUTIONS

PROJECT

CLIENT: CARLTON UNITED BREWERS (CUB)
LOCATION: Yatala, QLD

BACKGROUND

CUB determined that additional disinfection was required for their recycled service water system so it could be used for a wider range of applications, including equipment washdown and facility cleaning. This minimises town water consumption and helps maintain CUB's record for using less town water, per litre of beer produced, than any other Australian brewery. Clearmake was selected to provide the advanced disinfection treatment system.

SOLUTION

Clearmake worked in partnership with CUB engineers to design, manufacture, install and commission an advanced disinfection treatment system to meet the needs of the project. The solution components included:

- Clearmake advanced oxidation and chlorination disinfection treatment system.
- The system is capable of treating up to 130,000 L/h of water for reuse. This system uses two advanced oxidation UV systems to provide very high levels of disinfection and includes associated automatic valves and control to enable the units to be run independently.
- Advanced oxidation is by hydroxyl radicals through a catalytic reaction between UV and the titanium surface inside the disinfection unit.
- The system also includes an automatic chlorination system for residual disinfection.

BENEFITS

- Up to 3,120,000 L/d of disinfected water is available for safe reuse.
- There's been a significant reduction in the use of potable town water for site maintenance and cleaning.
- World leading water efficiency standards have been maintained.

Want to know more?
We're here to help you.

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