Warrnambool Water Treatment Plant UV Upgrade

Victoria, Australia

FILTEC
Making Water Safer

Project Snapshot

Client: Wannon Water

Capacity: 550 L/s (≈48 MLD)

Technology: UV Disinfection, AOX-Ready Infrastructure

Source Water: Surface Water

Completion: November 2024 – November 2025 (plus service)

Project Outcomes

- Validated 2.5-log Cryptosporidium reduction
- Low-headloss UV disinfection system
- Future-ready advanced oxidation capability
- Compact integration within existing infrastructure
- Ongoing local UV servicing and support

Future-Ready UV Disinfection for Warrnambool

Wannon Water required a new UV disinfection system at the Warrnambool Water Treatment Plant to support future Health-Based Target (HBT) compliance and strengthen resilience against seasonal taste and odour events.

FILTEC supplied and commissioned a duty/standby TrojanUVFlex system comprising two DN900 Flex 100 reactors fitted with 16 Solo Lamps each. The system delivers validated 2.5-log Cryptosporidium reduction while maintaining exceptionally low headloss of only 66 mm at 555 L/s - significantly below the project specification.

The upgrade was designed to provide a practical pathway to future advanced oxidation treatment through expandable reactor capacity and provision for hydrogen peroxide dosing and chlorine quenching infrastructure. This allows future taste and odour treatment capability without requiring replacement of the core UV system.

FILTEC completed commissioning and performance validation and continues to provide ongoing UV servicing support through its Victorian-based service team, including reactor inspections, sleeve cleaning, lamp replacement, wiper maintenance and system performance verification.

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