

# AquaSAFE

Small Community Drinking Water

## FILTEC's Rural Water Supply Solutions

Providing Safe Drinking Water for Small Communities

FILTEC is a leading provider of cost-effective and modular water treatment solutions that are tailored to meet the specific requirements of small communities. We offer a range of treatment processes designed to provide safe drinking water that meets the relevant Drinking Water Standards.

### Water Sources

Our water treatment systems can treat both primary and secondary water sources. Depending on the characteristics of the water source, pre-treatment may be necessary for the secondary water source, e.g. bore, rainwater, rivers and lakes.

### Design Requirements for Compliance

Our system meets the New Zealand Drinking Water Standards (NZDWS) for any water source and populations of up to 500 people. However, a water safety plan may be required to meet the overall standard.

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### Treatment Processes

Each system has the following minimum treatment as a standard:

- Water storage
- Pump
- Pre-filtration screen
- Cartridge filtration
- UV disinfection
- Remote monitoring
- Full operational & service documentation

Additional treatment processes may be added based on the water source and the results of the water analysis. Our modular approach ensures that each treatment plant is tailored to the unique water source, quality, and volume needs of the community.

The additional treatment processes include selective abstraction, pre-filtration screen for secondary water source, backwashable multimedia filters, granular activated carbon filters, water softener, iron and manganese removal, pH correction, and chlorination.



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## Pressure

Our system has a minimum working pressure of 50 kPa at the flowrate specified. The maximum static pressure at any outlet, other than a fire service outlet, within a building should not exceed 500 kPa.

The design pressure for the system at the consumer tie-in point is to be between 130 kPa – 350 kPa.



## Specifications

| Daily flow rates                               | Minimum number of normal residents | Maximum number of normal residents |
|--|------------------------------------|------------------------------------|
| Single dwelling – Up to 24 m <sup>3</sup> /day | 1                                  | 54                                 |
| Multiple dwellings – 25 m <sup>3</sup> /day    | 55                                 | 140                                |
| Multiple dwellings – 50 m <sup>3</sup> /day    | 141                                | 272                                |
| Multiple dwellings – 100 m <sup>3</sup> /day   | 273                                | 544                                |

## Why choose FILTEC?

FILTEC is proud of our ability to provide cost-effective and modular water treatment solutions that are tailored to meet the specific requirements of rural communities.

Our solution not only addresses the need for improved water quality but also focuses on providing training and ongoing support to community operators and service people, thereby building their capacity and capability to maintain and operate the water treatment plants.

Additionally, FILTEC's collaboration with local partners and our understanding of the cultural significance of water to these communities make us well-positioned to support these systems and the goals of the end user.

## Key benefits

- Improved water quality at all sites, making it safe for drinking
- Upgraded on-site water storage capacity
- Compliance with National Drinking Water Standards

**Contact FILTEC today**  
to learn more about our  
water treatment systems.

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