

# ACQUA™

by **DAVEY**

M E D I C A L



pure water for your **CSSD** needs

complying with EN 285 & AS/NZS 4187:2014 Amd 2:2019 standards

# Why is water an issue?

With the implementation of the EN 285 and AS/NZS 4187:2014 Amd 2:2019 standards, medical facilities have started to pay closer attention to the water servicing their CSSD unit and equipment. Best practice includes compliance with these standards.

Backed by the expertise and experience of Davey, Microlene Medical delivers a high quality water solution to help ensure full compliance with these standards. This not only ensures your CSSD unit performs as it needs to, but also safeguards your facility for the future. Using high-quality water that meets these standards will help reduce corrosion, scale build-up, and visible staining of instruments, thus extending the usability period of instruments reducing the risk of micro-organism growth.

There is a range of package reverse osmosis demineralised water treatment systems available on the market but not all of these will do exactly what you need them to do. An engineered purpose-built solution will allow you to get exactly what you need. Microlene Medical will also give you peace of mind knowing that your unit can be regularly serviced, with minimal to no downtime.

The water source of your CSSD is as unique as your requirements and Microlene Medical aims to provide you with a customised solution, not a one size fits all product.

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## What Davey offer...

### Engineered solution

Not every water supply is the same, so why should the solution be any different? Davey offers a fully customisable and comprehensive solution engineered to meet the specific requirements of your CSSD unit.

### Our experience

Backed by over 80 years of experience in developing water quality improvement products, Davey offers unparalleled technical expertise you can rely upon.

### Our service team

Davey have a nationwide support network that will ensure service is available when you need it, giving you and your team peace of mind.

### Technical brilliance

Davey will support you to address even the most complex technical issues thanks to an international team of engineers bringing knowledge and experience from around the world, with a plug and play solutions with little to no operator input.

Benefits	Acqua Medical by Davey	Washer/ Steriliser Suppliers	Other Water Treatment
Complete CSSD feed water solution	✓	✓	✓
AS4187/EN285 compliance guarantee	✓	-	✓
Tailored to your water needs	✓	-	✓
Fixed price servicing	✓	✓	✓
Financial support	✓	✓	-
Online data logging	✓	-	-
Australian designed	✓	-	✓
Ongoing support and servicing	✓	✓	✓





## Did you know?

### RO isn't the only option

RO is often seen as a basic plugin process where a unit is picked off the shelf to service a particular flow rate. These systems will provide some treatment but may not remove all contaminants, in particular, silica.

These units will also often run less efficiently using more water, power and require more frequent membrane replacements all adding to higher running costs.

Davey has a strong relationship with industry-leading manufacturers of water treatment equipment. As part of their formal training and experience, our engineers have been trained to design their RO systems to each site's incoming water quality, environmental conditions, and required permeate (treated water) quality. By specifying our systems to your site-specific requirements we can provide you with a solution that not only has a competitive capital cost, but will perform and operate at an easily manageable cost for years to come.

### Once treated doesn't always remain treated

Treated water leaving the Microlene Medical system will meet the requirements of the designated Standards. However, we know that each site specific plumbing system between feed water treatment and the washer/steriliser units can be an issue with regard to microbiological growth.

We want to work with you to provide a complete solution to help manage this risk. This may include pipe material selection, options for a ring main system to maintain water turnover, and re-treatment as required to manage the risk of endotoxin formation. Monitoring options can include local displays indicating water quality for remote monitoring control and alerts.

### Built to perform

Depending on your CSSD's requirements for runtime and downtime we can design your solution with the required level of backup redundancy and monitoring. This may include duty/standby units or small footprint storage options to provide backup and help service peak demand.

#### Your water treatment solution compliant with EN 285 & AS/NZS 4187:2014 Amd 2:2019

- 1 Specification through site visit to understand your needs and water testing to only treat what is actually in your water source
- 2 Design using Davey's strong experience in water treatment systems and extensive range of products
- 3 Manufacturing to the highest quality standards and commissioning by Davey's personnel to demonstrate performance
- 4 Training your staff and supporting you in the long run with documentation, testing and maintenance

# Case studies

## Anglesea Hospital, Hamilton

### The requirement

A private hospital with three state-of-the-art operating theatres were experiencing inconsistent water quality being fed to their autoclaves and theatre equipment washers.

### The Davey solution

Water treatment plant including carbon filter, jumbo filter housing and cartridge, water softener, reverse osmosis, mixed bed deionisation filtration, conductivity meters, Davey pump, pressure tank and UV sterilisation.

Barbara Bright, Central Sterilising Services Coordinator at Anglesea says it was Davey's professionalism and their strong working relationship with Waikato Filtration, coupled with after sales service and support which won Davey the contract.

"Davey were able to come and look at the area, assess our needs and then provide a plant that met those needs – it is very compact, clean, tidy and very professional. Davey knew what they were talking about, they weren't phased by the job, everything was very clear, and because of all the information they requested we felt confident that they would provide us with a system that was not only going to give us the quality and volume of water we require daily, but a good back up system with good storage".

## Victoria University, Wellington

### The requirement

Students working in Victoria University's new bio science laboratories required a controlled water supply for experiments and required offsite water quality monitoring without manual sampling.

### The Davey solution

Four water treatment plants and two pump units with offsite monitoring. The system included carbon filters for dechlorination, water softeners to remove hardness, reverse osmosis to remove most of the salts, mixed bed deionisation resin for more intensive polishing and deionisation, and UV disinfection with 0.2 micron filtration on the end of the treatment for endotoxins.

Analyser dual input conductivity meters measured readings before and after the reverse osmosis systems. Similar analysers read resistivity after the mixed bed resin deionising tanks and the 0.2 micron filtration on the ring main. Both UV units come with comms centres for data logging and troubleshooting.



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