



Reverse Osmosis treatment system for Townsville General Hospital

Customer: Sterilisation Equipment Sales & Service (SESS)

Location: Townsville, QLD

Case Study ID: CS-49

Date: December 2012

Overview

The Townsville General Hospital is a tertiary referral hospital located in Douglas, Townsville. The Townsville Hospital provides the latest in cardiac, obstetric, gynaecological, paediatric, neurosurgical, orthopaedic, cancer, mental health, neonatal, allied health, anaesthetic, and intensive care services. Townsville General Hospital treats patients from across North Queensland, as far north as Cape York Peninsula and the Torres Strait Islands, and west to Mount Isa and the Gulf of Carpentaria.

Townsville General Hospital engaged Dowdens Pumping & Water Treatment to Brisbane Engineering Department & Fabrication Workshop to design, manufacture, install and commission a Reverse Osmosis (RO) water treatment system.

Head Office

9-15 Industrial St
Mackay QLD 4740
Ph: +61 7 4969 4949
Email: info@dowdens.com.au

Brisbane Office

24/140 Wecker Road
Mansfield QLD 4122
Ph: +61 7 3828 7000
Email: brisbane@dowdens.com.au

Rockhampton Office

4/415 Yaamba Road
Park Avenue QLD 4701
Ph: +61 7 4923 6969
Email: info@dowdens.com.au

Proserpine Office

2 Mann St
Proserpine QLD 4800
Ph: +61 7 4969 4940
Email: info@dowdens.com.au

The Problem

The hospital required a Reverse Osmosis system to treat Townsville mains water to supply four onsite 'sterilising washers' used in the Central Sterile Supply Department of the Townsville General Hospital.



Our Solution

Dowdens Pumping and Water Treatment designed a Reverse Osmosis Systems that produces water quality of <math><30\text{ uS/cm}</math>. This system also produces 24 m³ of treated water a day.

Key Components

- Full Human Interface Controller/Programmable Logic Controller for Building Management System compatibility
- 24m³/day Duty Standby RO system
- Glass/Carbon filtration
- Antiscalant dosing
- CIP system

Project Design Philosophy

Dowdens Pumping & Water Treatment's design philosophy for this project was:

- Cost-Effectiveness
- Current Best Practice
- Ease of Installation
- Simple & Effective System Operation
- System Reliability

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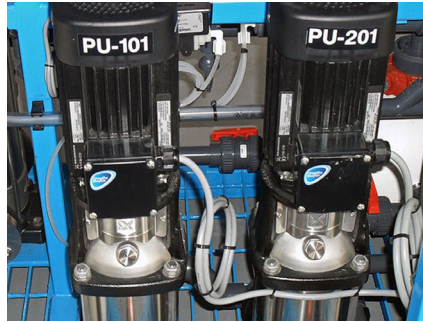
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Brands used in this project



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