

P O Box 3006  
West Ipswich QLD 4305

Telephone: 5460 9111

Facsimile: 5460 9110

Web: [www.smartsewagesolutions.com.au](http://www.smartsewagesolutions.com.au)

Email: [smartsewagesolutions@bigpond.com](mailto:smartsewagesolutions@bigpond.com)

# Taylex DMS

## Domestic Membrane System Advanced Secondary Wastewater Treatment System with Nutrient Removal

### Taylex™ DMS Advanced Secondary Treatment with Nutrient Removal

2000 litres per day or up to 10 Person

The DMS Wastewater Treatment System is suited to environmentally sensitive areas.

The system allows disposal areas on small blocks or blocks with natural water courses and/or neighbours in close proximity.

The system has two forms of disinfection (membrane filtration and UV light) neither of which have any residue.

The concrete vessel comes with a 15 year warranty and all electrical items are covered by a 12 month manufacturer's warranty, with an extended warranty period also available.

### Membrane Filtration and UV Light Disinfection

#### Treatment Process

**Step 1** All waste from the home enters the primary pre-treatment chamber of the system with liquid then flowing into the secondary chamber. The time that waste spends in both these anaerobic chambers allows bacterial action to condition it before it flows into the aeration chamber.

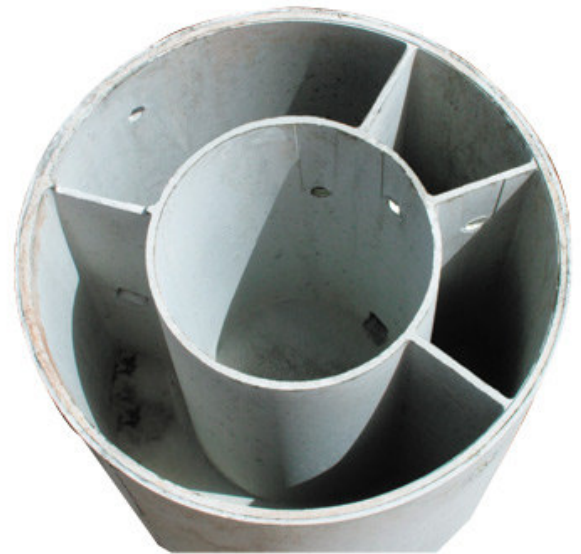
**Step 2** In the aeration chamber, an air blower introduces oxygen into the liquid, creating an aerobic process where bacteria grow and digest solid waste. At intervals governed by the water flow, the liquid will be pumped through the ultra-filtration membranes to the irrigation chamber.

**Step 3** Biological nutrient removal is achieved by recirculating liquid between the aerobic membrane chamber and a denitrification chamber. Phosphorus removal is achieved by withholding all sludge.

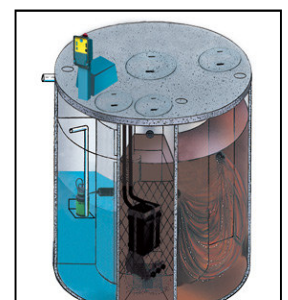
**Step 4** The liquid that has entered the irrigation chamber is constantly recycled through a continuous disinfection process using UV light and then recycled back to the environment via spray or underground irrigation. The ultra-filtration membrane is the primary disinfection process.



Completed system.  
Visual impact of the vessel is negligible.



Height: 2300mm  
Invert: 1530 or 1830mm (2 invert levels available)  
Diameter: 2450mm  
Weight: 6.25 ton



3D internal image of  
working system