

**Superior Sandbed Filtration System**

Based upon the operational principles of the sand filtration system, the Epsom system utilises only the highest quality components and fittings—so that you can be confident that your investment is sound and long lasting.

**Environmentally friendly**  
**Efficient to maintain**  
**Australian owned and designed**



An Epsom system is ideal for larger households, entertainers or frequent travellers because:

- its 5 partitions allow for better filtration (competitors provide 2 or 3 partitions);
- its large 7,500 litre tank allows for greater retention time, hence greater efficiency (competitors provide 3,900 litres).



**Smart Sewage Solutions Pty Ltd**

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The Epsom Sandbed Filtration system operates automatically to treat all of the wastewater from your household, turning it into clear, odourless water used to irrigate your garden or lawn area.

## The Epsom Treatment Process



The Epsom Sandbed Filtration System works on the principles of primary settling plus secondary treatment. The treatment process is then followed by effluent disposal through the irrigation system.

### Primary Settling



All of the wastewater from your house flows first into the 'septic' zone, where solids are settled out and the micro-organisms carry out the initial part of the purification process.



Once the organic impurities have been absorbed within the anaerobic culture of micro-organisms, the water then passes to the secondary sedimentation zone.

### The Percolation Process

The partially purified water is then pumped at a constant regulated flow over to the sandbed for intense filtration. This is done through 6 layers of coarse sand, aggregate, geomac filter fabric, and a filter sock. When the water has completed the percolation process through the sandbed, it is then gravity-fed to the final pump-out chamber inside the tank.

### Pump out

Once the treated water reaches a certain level in the final chamber, the submersible pump will automatically start and pump the water to the designated irrigation dispersal area.

### Benefits of an Epsom system include:

- only 1 service per year
- UV Disinfection option
- high tolerance of peak loading (parties, holidays etc)
- high tolerance in periods of dormancy (holidays, intermittent use)
- extremely low maintenance (eg no mechanical blower), economical to run
- excellent effluent quality
- lower incidence of parts failure, call-out fees, replacement costs

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