



# PACKAGED SEWAGE TREATMENT PLANTS



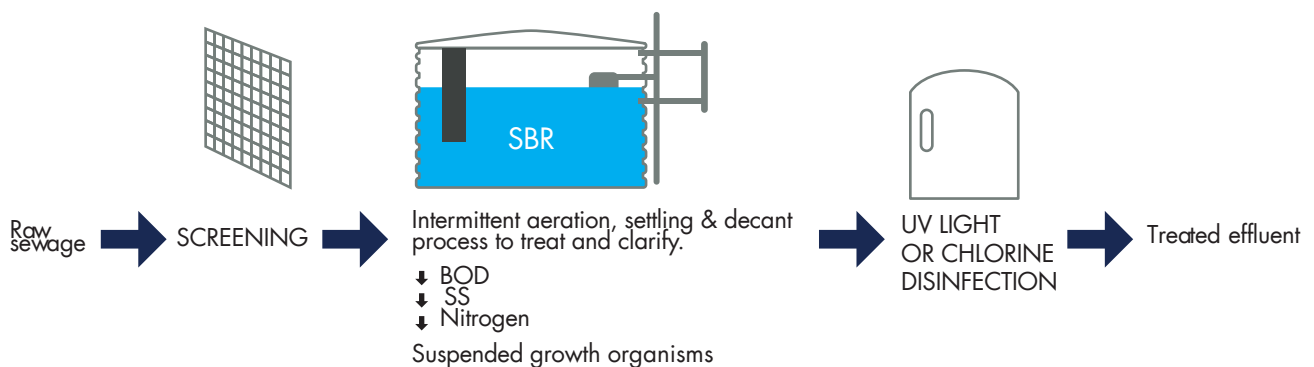
## INTRODUCTION

Aerofloat provides unique sewage treatment plants (STPs) using technology incorporated into over 500 plants around Australia. Aerofloat's STPs provide a low-maintenance, cost-effective solution which can be easily relocated if required. Aerofloat's proprietary technology has taken proven sewage treatment processes and applied a more mechanically simple design, to provide superior effluent quality. The simpler design means less mechanical componentry, improving the reliability of the plant and minimising maintenance requirements.

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## TECHNOLOGY

For sewage treatment plants Aerofloat uses a range of technologies depending on the location and the treatment standards required. For many applications, Aerofloat primarily uses its proprietary SBR (Sequencing Batch Reactor) technology either as single tanks, for populations up to 100 persons or multiple SBR tanks in parallel for larger populations. For mine site camps, upfront aerated balance tanks are used. In some applications the hybrid MBBR (Moving Bed Biofilm Reactor) / SBR technology can be used, which is a series process with the MBBR reactor proceeding the SBR reactor.





## FEATURES

### HIGH FLOW CAPABILITY

Unique hybrid MBBR+SBR combination ensures the system copes well with high variable flow rates.

### TURNKEY INSTALLATION

For remote locations, most mechanical components arrive in a container fully assembled, pre-wired and ready to go. Lightweight HDPE tanks are delivered to site. Simply connect the pipework from the containerised components to the tanks for simple installation.

### LOW MAINTENANCE

Removable lances in the MBBR allow cleaning to take place without the need to drain the tank or stop the process. The air locked syphon decanter is a fixed weir at bottom water level and has no moving parts. There is also no regular cleaning or membrane replacement required.

### COST EFFECTIVE

The tanks used are standard sizes and are made of HDPE rather than stainless steel or painted carbon steel, making them a cost-effective solution.

### RELOCATABLE

The STP components can fit into a shipping container and the lightweight cylindrical HDPE tanks filled with biomedica allow for the relocation to alternative sites if the development has a short life expectancy.

### SCALABLE & MODULAR

The STPs are a modular design and are suitable for populations between 100 and 3000 persons.

### AUTOMATION

The STPs have with a fully automated system for process control and the capability to remotely monitor the plant.

## APPLICATIONS

Off sewer developments from 100 - 3000 people:

- Mining camps & villages
- Island resorts
- Small townships
- Holiday parks
- Sport & recreation camps



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