

BALMORAL HYDROCLEAR

Serves 1-6 people

Total Capacity 4400L

Maximum Daily Flow 1200L/day

Organic Load 360gBOD/day

Desludge 12months

Producing an excellent pollutant removal level of 97% and can be used with 40m percolation area in order to provide 97.5% removal. This has been confirmed by DOENI.

Wastewater feeds directly into the treatment plant and travels through the HydroClear's 3 treatment chambers.

BENEFITS

Class Leading Performance producing an excellent 97% pollutant removal level, the final effluent can be directly discharged into a stream or soakaway.

MBBR Technology Moving Bed Biological Reactor (MBBR) systems are self-cleaning and unable to become blocked through channelling unlike most fixed film media system.

Low Maintenance Costs chamber 1 capacity is as much as 66% larger than other plants, making desludging intervals up to three times longer saving the owner significant costs.

Power Failure Default the system keeps performing as a Septic Tank in the event of a power failure.

Odourless the system is hermetically sealed, coupled with a market leading treatment performance eliminates odour.

Virtually Silent Operation with high performance diaphragm blowers which are used and housed in the turrets achieving a virtually silent operation.

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HOW IT WORKS

Chamber 1 - Primary Settlement

Wastewater enter the treatment plant's primary chamber. As the water passes through this chamber solid matter sinks to the bottom of the tank and begins to decompose.

What is left is clarified water which then passes to the aeration chamber where a biological reaction takes place removing the dissolved constituents.

Chamber 2 - Reactor Vessel

Within this chamber there is mobile 'Filter Media' and a 'Bubble Diffuser'. The Filter Media support large bacterial populations while induced air from the Bubble Diffuser promotes complete mixing within the chamber to create a biological reaction and ensure that full treatment is achieved.

Unlike conventional systems, the Filter Media in the reaction chamber is self-cleaning and unable to become blocked through channelling.

Chamber 3 - Final Settlement

Finally, the treated effluent & bacteria flow into the final chamber where remaining small solids sink to the bottom of the chamber prior to the clarified effluent being discharged from the plant using natural displacement.

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