ecotube™

Septic Tank Effluent Filter

NZ Patent No. 334385

As approved by Ian Gunn, Honorary Research Fellow, The University of Auckland and co-author of ARC Technical Publication 58.

INTRODUCTION

The ecotube™ effluent filter improves the efficiency of your septic tank or wastewater treatment plant in two ways. It prevents the occurrence of septic tank outlet blockages and extends the life of the disposal area by filtering out solids.

Septic tank effluent typically separates into three layers. The ecotube™ extracts and filters the effluent from the relatively clean middle layer for discharge to the disposal area further minimising blockages.

The ecotube™ utilises highly durable polypropylene filter tube from NSW Environmental. It is designed and built in New Zealand and provides a large filter area through the use of patented concentric filter tubes.

For cleaning the ecotube™ comes with an adjustable handle to allow for easy and complete removal however frequent cleaning is not required as solids captured on the filter fall back into the underlying sludge layers.

The ecotube™ comes complete with an outlet junction and insert filter. Alternatively the insert filter can be purchased separately to use in an existing outlet junction with no adaption fitting required.

The outlet junction has a flow modulation plate with a low flow orifice and a peak flow weir to buffer surges through the ecotube™. The junction also has an expanded dropper pipe to ensure the full filter surface area is exposed to the effluent.

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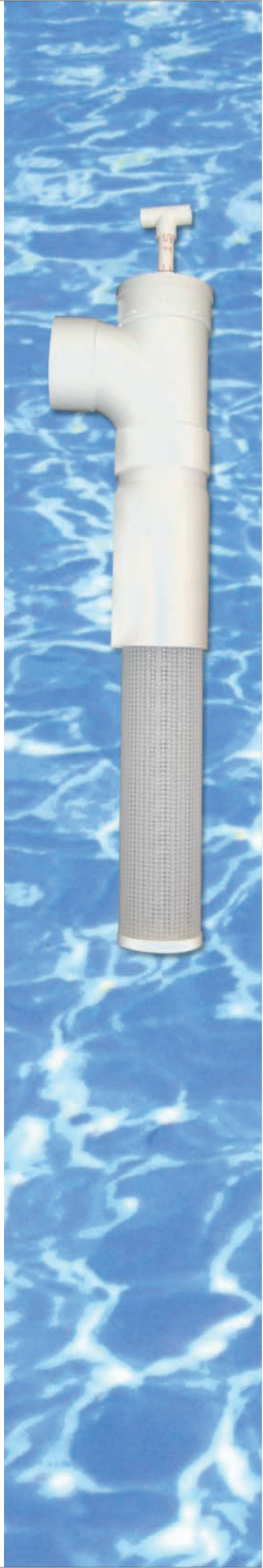

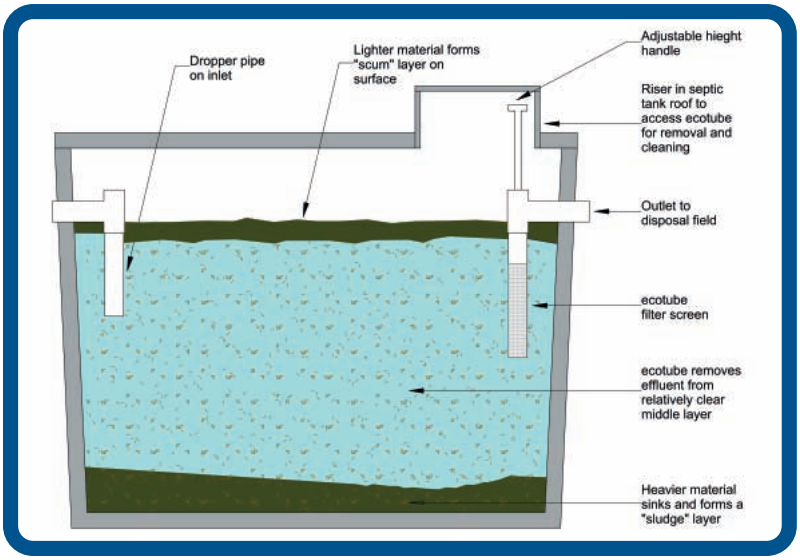

ADVANTAGES

Key advantages of the ecotube™ effluent filter

- Flow area, filter area and aperture size make the ecotube™ one of the best effluent filters available
- Easily installed or retrofitted – no adaption fittings required
- Cost efficient
- Available as a complete unit or as an insert filter
- Larger ecotube™ available to handle larger commercial or industrial septic tanks.
- Filtered solids fall back into the septic tank for further treatment - No sump or vault to block with captured solids!
- 2.5mm filter opening size with low velocity through screens
- Flow modulation on outlet to reduce surges but still allowing emergency overflow when required
- Expanded dropper pipe ensures the full surface area of the filter has unimpeded contact with the effluent
- Adjustable handle and removable filter allows easy cleaning
- New Zealand designed, patented and manufactured for use with standard New Zealand fittings

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