

Matala Level Detecting Submersible Pumps

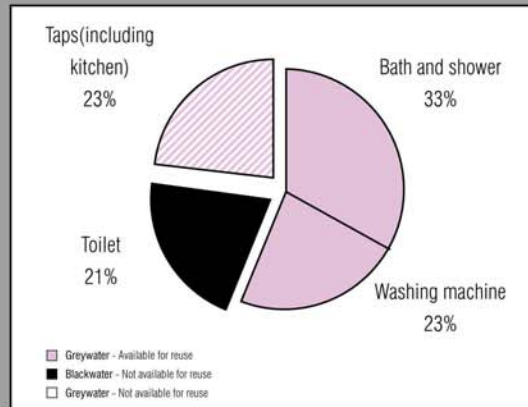


A Potential Water Reuse of 130,000 litres annually for an average family of four

Appliance	Residential Premise (Single Household)	
	L/house/day	L/person/day
Bath and shower	198	66
Washing machine	140	47
Sub-total Greywater	338	113
Toilet	124	41
Taps(includes kitchen)	140	47
Total in-house	602	201

Per Capita In-house Usage (Loh and Coglian 2003)

Proportion of In-house usage available for reuse



Data source: Australia NSW Department of Energy, Utilities and Sustainability, 2003

Matala[®]
"Make water alive"

Sustainable Living
Aqua2use Greywater Diversion Device



The Answer for Greywater Reuse



ATSS200.460-GWDD
CN: WMK 30004

Patented

Matala[®] 3D Progressive Filtration :
Technology Proved in more than 40 countries

Matala[®]

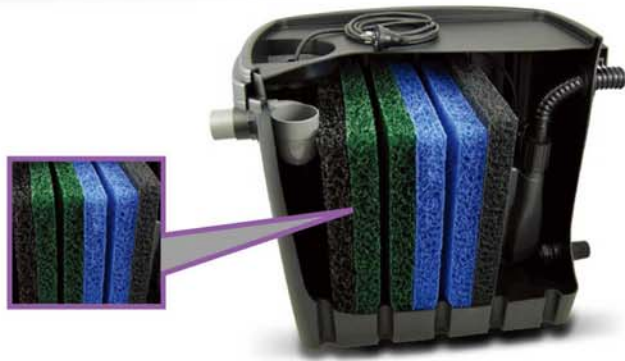
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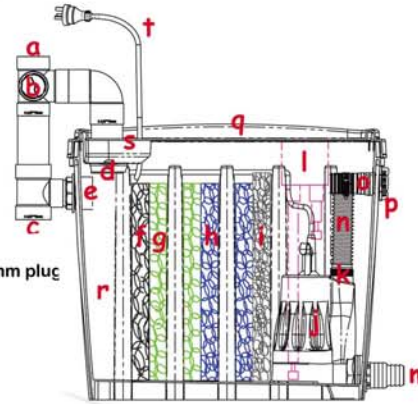


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Matala Progressive Filtration Technology applied in Greywater Diverter :



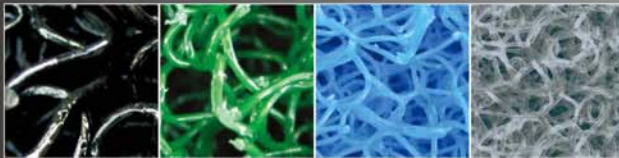
- a. inlet : 50mm DWV pipe
- b. bypass Valve
- c. outlet to sewer (50mm)
- d. inlet to GWDD
- e. overflow : 50mm DWV pipe
- f. Matala FSM190, Black
- g. Matala FSM290, Green
- h. Matala FSM365, Blue
- i. Matala FSM460, Grey
- j. water pump
- k. pump outlet
- l. electronic pump controller
- m. drain/clean out point with 25mm plug
- n. kinkfree hose + hose clamp
- o. outlet connector
- p. nut
- q. tank cover
- r. tank
- s. inlet cover/ruber
- t. electrical pump lead



How it works:

- Step 1 :** When the Matala GWD valve is open, grey-water flows direct to the mains sewage
- Step 2 :** When the Matala GWD valve is closed, grey-water from the house is diverted to the inlet of the filter.
- Step 3 :** The greywater flows through the 1st filter web that retains major + medium particles such as hair, lint, paper, detergent clogs and other impurities. (The filter web: Matala Black-low density, Matala Green-medium density)
- Step 4 :** The greywater flows through the 2nd filter web that retains medium + small particles (The filter web: Matala Green-medium density, Matala Blue-high density)
- Step 5 :** The greywater flows through the 3rd filter web that retains small + minor particles (The filter web: Matala Blue-high density, Matala Grey- Super high density)
- Step 6 :** Filtered greywater is pumped to the irrigation

Greywater IN



Filtered water for Lawn & garden



Unit tested in a Caravan park, Australia:
Matala greywater diverter checked after filtering 40,000L incoming greywater : public shower rooms and laundry

The pictures prove the high filtration efficiency, achieved with progressive density Matala filter sheets. The filter can take up a huge volume of hair, lint, sand, soap residus etc....



Features & Benefits:

- State of the Art Progressive Filtration.
- 30 liters of Matala filter media provides 10 m² of specific surface area & 90% void space.
- Cross-Flow depth filtration: each filter web has a 3-dimensional structure, able to trap a high volume of impurities without plugging.
Multichamber plug flow concept: If the first filter web gets clogged the filtration is done by the 2nd and 3rd filter web. If the second web gets clogged, the filtration is done by the 3rd filter web.
- Level detecting Submersible Pump.
- The pump is protected from dry run, clogging and damage.
- Built in overflow safety.
- Easy to clean
- System can be installed either above ground, half-submerged in ground, or under ground in an enclosure with inspection cover
- Water mark approved.

