

ABN 64 127 735 433



PO Box 395, Mundaring. 6073.

Phone/fax 9295 6263 Mobile 0439 971 213

office@waterinstallations.com

Office: 18 Wandeara Cres, Mundaring. 6073.

GRS-H Filter Installation and Specifications

WA DoH Approval F-AA-09931

Use

This model is used to filter greywater for whole-house diversion from the bathroom/s and laundry, removing any hair or lint before the effluent passes into an infiltration area. The filter body also incorporates a safety overflow device to direct greywater to the existing sewer or septic tank system as required. The GRS Filter should not be connected to any toilets or kitchen outlets.

Filter bags

Greywater is filtered through a commercially produced fibre filter bag (e.g. 200-300 µm nylon bag) which is able to be easily removed via two moulded handles. The bags are 500 mm long and fit tightly into a standard 150 mm DWV housing.



Figure 1. Filter bags – longer one for horizontal model, shorter one for vertical model.

Should the filters be blocked, or too much water enters the filter body, greywater is automatically diverted to sewer via an overflow device. This device redirects wastewater from the existing system to a disconnector gully return or directly to sewer via a reflux valve.

The filter will need regular removal and cleaning, or eventual replacing if the pores become completely blocked. Cleaning should occur fortnightly, unless excessive laundry or bathroom use has occurred and cleaning may need to take place after one week. It will soon become apparent if wastewater cannot drain away through the bag after a visual inspection (unscrewing the lid).

Construction

The GRS Filter is made from standard DWV fittings and pipe. The main filter body contains the filter bag. The UV-stabilised 90 mm rotary valve is positioned just before the filter to enable greywater flow to the filter body to be stopped, and then redirected towards the sewer line. All PVC-U pipe and fittings comply with AS/NZS 1260:2002 and carry the 'W' identification or standards endorsement.

Horizontal Filter (model GRS-H)

The GRS-H Horizontal filter is typically buried and can accommodate large flows from both bathrooms and laundry due to the longer filter bag and larger DWV pipe and fittings.

The filter body is laid so that the inspection cap is at ground level, or able to be accessed to remove the filter. Both the inlet and outlet manifolds are composed of 100 mm pipe and fittings. Riser pipe and fittings can enable the body to be buried below natural ground level, provided access is still achieved.

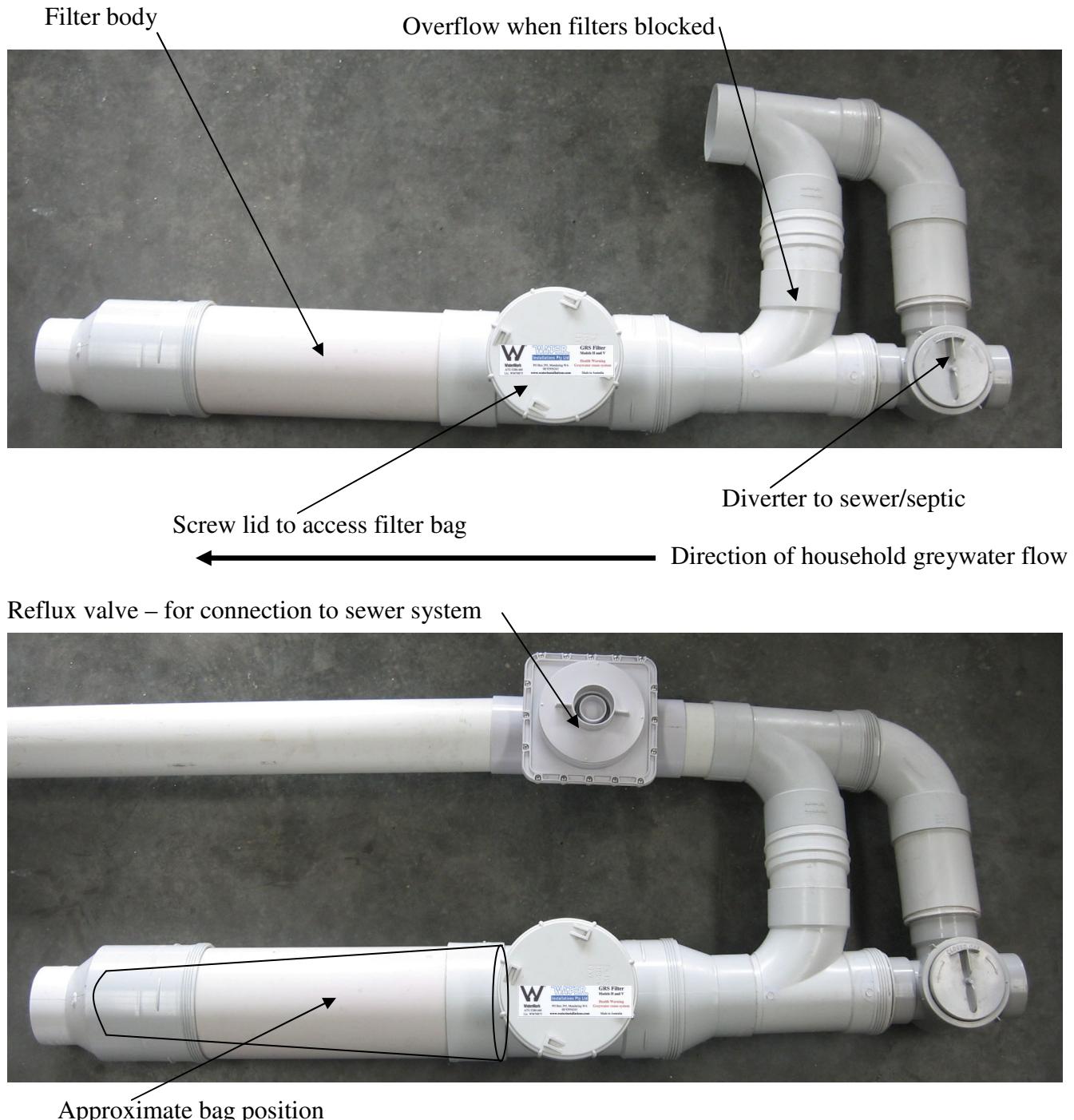


Figure 2. Top: general layout of filter. Bottom: approximate bag position inside body.

Maintenance of the GRS Filter

Cleaning and/or replacing the filter bags, and general maintenance requirements, is covered in the accompanying document "Homeowner's Guide to the GRS Filter".