



RAINHARVESTING SYSTEMS

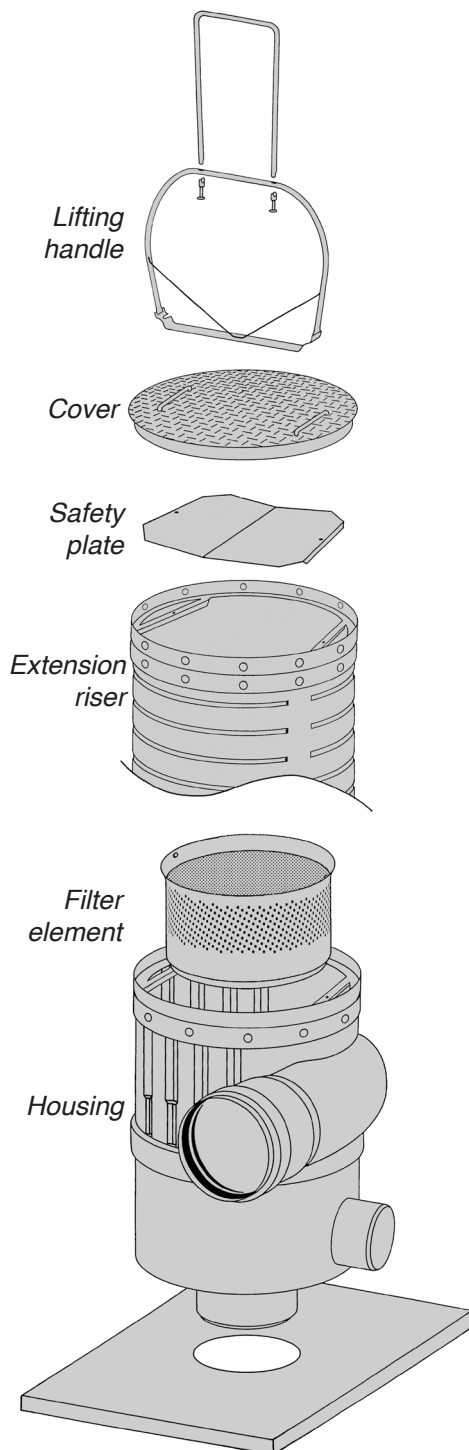
OPERATION AND MAINTENANCE

Wisyr® Vortex Filter unit (type WFF300)

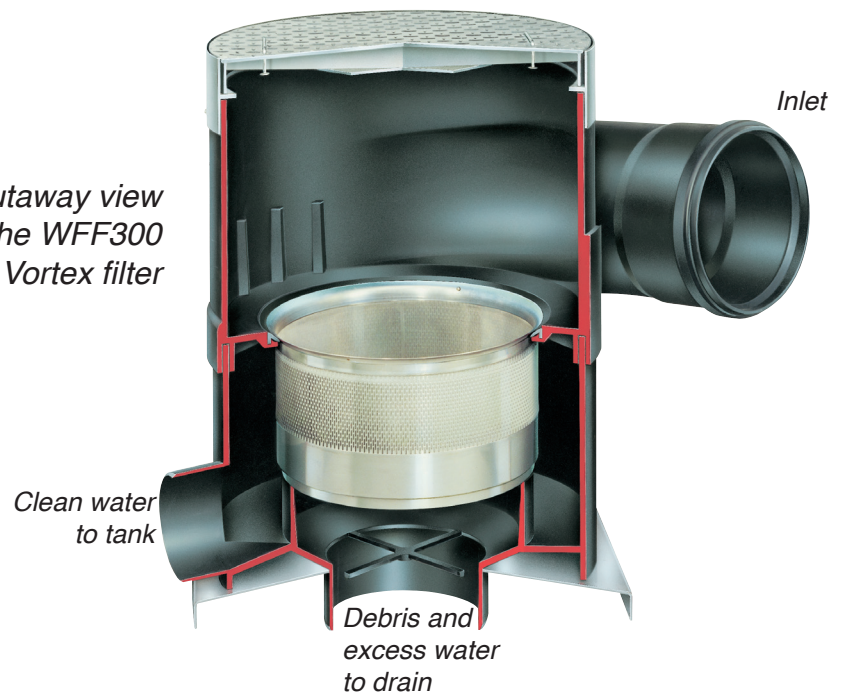
The filter is the key component in the rainwater system, serving to eliminate debris that gets washed down from the roof and thus ensuring that only clean water enters the tank. This is very important, as it is the presence of decaying organic matter within the water that potentially causes problems with water clarity and quality. It is essential that the filter is cleaned on a regular basis in order to maintain its' optimum performance.

Please bear in mind that the filter is connected to the pipes that lead from the buildings' rainwater downpipes. Where these downpipes discharge into open gullies (rather than sealed connectors), there is potential for contamination to take place.

Therefore do not pour anything but water down any drain gullies connected to the system. Cement washings, paint slops, garden chemical residues etc. could all lead to problems of water contamination or permanent filter blockage. Ideally open gullies should be changed for direct connections.

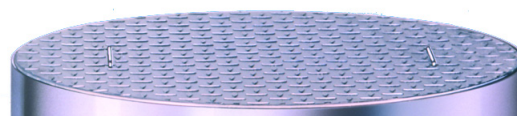


Cutaway view of the WFF300 Vortex filter



Location

The vortex filter unit will be found outside the property near to the rainwater storage tank, and can be identified by its circular cover which is approximately 70cm diameter. It will be either of aluminium (pedestrian duty) or galvanised steel (vehicle duty).



The cover is removed by simply lifting the two integral handles. Beneath the cover there is a steel child-proof safety plate which must also be removed by undoing the 2 retaining bolts.

The housing of the filter unit is manufactured from high-density polypropylene and is maintenance-free. The filter element is high-grade stainless steel and is to a large extent cleaned by the water flowing over and through the mesh but over time a residue will form that reduces the filter efficiency so that regular cleaning is required. Please note that this residue is usually difficult to see without close inspection, so the filter may appear at first glance to be cleaner than it actually is.

Cleaning the filter element

The filter element should be cleaned at least every three months; however every situation is different and in some extreme situations it may be necessary to clean the filter more frequently.

We recommend that initially the filter element should be cleaned six times per year. The filter can be cleaned using either a pressure washer or by hand using a brush and clean water (a little washing up liquid may assist). Excellent results can also be obtained from cleaning in a dishwasher.

In order to access the element of the WFF300, the cover and safety plate must first be removed.

The filter element can then be removed and replaced using the lifting handle supplied with the unit as shown below.

The handle is inserted on to the filter element and then rotated clockwise until located beneath the two locking pins. The element can now be safely lifted up.

Clean the mesh on the inner surface of the element thoroughly using water and a non-abrasive brush or a pressure washer.

When properly clean, it should be possible to see clearly through the fine mesh by holding the element up to the light.

If you need to take the element elsewhere to be cleaned that will be out of sight of the filter unit, then the cover of the unit should be replaced as a safety precaution.

When replacing the element in the filter body, ensure that it seats correctly onto the rubber seal inside and that there are no gaps around the perimeter of the steel rim.

Do not leave the lifting handle in place; it must be removed for optimum filter efficiency.

Note: In some cases where one or more extension tubes have been fitted above the filter unit, it may be necessary to reach down with the handle in order to remove the element. If required, longer handles are available.

The unit should not be left for any time during rainfall without the filter element in place otherwise debris will enter the rainwater storage tank. We therefore suggest that the filters are cleaned during dry weather!

