



Many homes in Australia, New Zealand and around the world use water collected from unsecure sources such as rainwater harvesting, rivers and bores. All surface water can harbor micro-organisms that are potentially dangerous to health. Davey Water Products offer a range of products designed to make drinking water safer.

UV disinfection inactivates micro-organisms

Bird and animal droppings can contaminate your tank water catchment area with micro-organisms such as viruses, bacteria and parasitic cysts. UV light generated at 254 nanometers inactivates micro-organisms by damaging their DNA. Once the DNA is damaged, they are not able to reproduce and cannot cause infection in humans.

UV treatment is best used on clean, clear water so that micro-organisms get full UV exposure. We recommend Davey Filterpure® filters before all UV systems to remove any sediment that could potentially shield the micro-organism from the UV light.

The Steriflo® UV disinfection range is available in a number of formats to suit your needs. The items are available individually, in kits or as pre-assembled packages. Select your water flow and the package format that suits your needs.

Pressure Boosting and Disinfection

The Davey Aquashield® MAX packaged system contains everything you need to provide safe water from rainwater tanks. The pump included provides the pressure needed to deliver water to your home.

The three-stage treatment package removes sediment and treats the water with UV. This all-in-one package is factory assembled, tested and ready to be plumbed between your tank and house.

The unit is enclosed in its own case to protect it from the weather.



Code	Description <i>All units have 2x 20 inch jumbo filters, a UV chamber and the following pump</i>	Flow Rate	Head
ASHS60-08T	HS60-08 pump with Torrium2 controller	70lpm	30m
ASHM60-10T	HM60-10 pump with Torrium2 controller	70lpm	38m
ASHS60-08RB	HS60-08 pump with RainBank2 controller	70lpm	30m
ASHM60-10RB	HM60-10 pump with Rainbank2 controller	70lpm	38m
KASRBS1	D42A/B20 submersible pump with Rainbank2 controller	50lpm	27m
KASRBS2	D53A/B20 submersible pump with RainBank2 controller	50lpm	40m

Packaged Disinfection Systems

If you already have a pump and are looking for an easy treatment solution, then the Aquashield® Centurion is perfect for you. Mount the system in your pump room or other sheltered position and plumb your water through.

Whole of house units:

Code	Description	Flow Rate
ASC50W	2x 10 inch jumbo housings with 50lpm Steriflo	50lpm
ASC70W	2x 20 inch jumbo housings with 70lpm Steriflo	70lpm



Single tap unit:

Code	Description	Flow Rate
ASC11	Under-bench filter and UV package	11lpm

Kits

Davey have a range of kits that combine 2 stages of Filterpure® filtration with Steriflo® UV disinfection. The kits are matched for water flow, e.g. a small UV system has small filters. The kits are completely disassembled and allow you the flexibility to design your own set-up around your existing set up or in more tricky places.

Code Aust / NZ	Max Flow Rate	Housings	Course filtration	Fine Filtration	Steriflo unit Aust / NZ
KSF50 / EUV50KIT	50 lpm	2X 10 inch Jumbo	1x 20µm pleated	1x 1µm spun	UV50 / EUV50
KSF70 / EUV70KIT	70 lpm	2X 20 inch Jumbo	1x 20µm pleated	1x 1µm spun	UV70 / EUV70
KSF130 / EUV130KIT	130 lpm	4X 20 inch Jumbo	2x 20µm pleated	2x 1µm spun	UV130 / ESF1000S

Single Steriflo® Units

If you have met your filtration needs, you may wish to include just the Steriflo® unit into your water treatment regime. They are available individually as follows:



Code Aust / NZ	Maximum Flow Rate
ES5Q-PA / 2A	23 lpm
UV50 / EUV50	50 lpm
UV70 / EUV70	70 lpm
UV130 / ESF1000S	130 lpm
ESF2500S	250 lpm





Removing sediment with course filtration increases the life of finer filters.



Course Filtration

Removes solids over 20 micron (removes dirt, rust, sediment, leaf matter).

In tank water, these solids are typically decaying leaf matter and dirt. Removing them with course filtration increases the life of finer filters. The pleated shape of these cartridges allows them to be washed 2-3 times to improve their performance and life.

Fine Filtration

Removes small solids and cysts over 1 micron (removes parasitic cysts and fine particles).

These fine filters are suitable for trapping cysts such as *Cryptosporidium* and *Giardia*. They also continue to clean smaller particles and solids from your drinking water.

Davey Filterpure® course and fine filters and housings are available in three standard sizes to suit all household water requirements.

- > 10 inch standard cartridges are suitable for single tap filtration.
- > 10 inch jumbo housings and filter cartridges are suitable for small houses.
- > 20 inch jumbo housings and filter cartridges are suitable for medium-large houses. Where water flow of over 70 litres per minute are required, it is possible to use 20 inch jumbo filters set up in parallel.

Maintenance of Steriflo® UV and filters

As the Steriflo® UV system works by exposing micro-organisms to UV light, it is important to keep the light-source clean. Mineral deposits on the lamp sleeve are common and should be cleaned off every 3 months or more frequently if the water is hard. The sleeve is easily cleaned with CLR solution. The UV lamp should be replaced every 12 months. This ensures an adequate dose of UV light.

The filters should also be checked every 3 months. The 20µm cartridge should be washed to remove as much sediment as possible. Both cartridges should be replaced yearly or if water pressure drops significantly.

Yearly Maintenance Kits

Kit Code	Kit Description	Kit Contents
K70LPM	For all Aquashield®MAX units and Aquashield Centurion 70 lpm units (ASC70W)	GPH550N2/W UV Lamp TT600 Quartz Sleeve S24X3N70 O-ring 20PP20J Course filter 1PS20J Fine filter
K50LPM	For Aquashield®Centurion 50 lpm units (ASC50W) only	GPH550N2/W UV Lamp TT600 Quartz Sleeve S24X3N70 O-ring 20PP10J Course filter 1PS10J Fine filter
K11LPM	For 11 lpm under-bench unit (ASC11) only	402067 UV Lamp 402066 Quartz Sleeve 5PS10 Sediment filter ACB10 Carbon Filter



Commercial

Davey Water Products also manufactures a range of larger commercial Steriflo® units. Please talk to us about your larger water disinfection needs.

DAVEY®

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DWP0092-1/200/0912/IPM supersedes DWP0092/3K/0612/GPS