

RAINWATER SYSTEM 2009 Catalogue



Silvan H₂O
Smarter rainwater systems

GARDEN WATERING SYSTEM

Aquagarden

The complete all in one garden watering system. Plug it in and add rainwater. The Aquagarden watering system is a convenient way to store and deliver rainwater to your garden and is ideal for the modern urban outdoor living area.



Aquagarden

Tower



Aquagarden Features

- Unlimited capacity – just keep adding tanks in 1000 litre increments
- Intelligent controller features power on, pump on and failure LED
- Demand pump – will shut off once you release trigger on hose or turn off tap
- Easily caters for Frogmouth filter which is sold separately (refer page 4)
- No need to bend down to connect your garden hose. The attractive central panel locates the tap at a convenient height for you.

All Units Supplied With

- Submersible Pump
- Rainwater Tank
- Pressure Controller
- Operators manual
- Quality Garden Tap Fitting
- “Rainwater Utilisation system in use” sign

Aquagarden Benefits

- Aquagarden requires a single downpipe connection only, meaning less work and effort for you to install.
- Easy to install and requires only a single outdoor power point (10 Amp)
- Eliminates the frustration of buckets, watering cans and gravity tank systems
- Aquagarden is a complete system. It includes tank, pump, controller, garden tap and instruction manual.
- IP65 rating for you protection

Basic Specifications

- Power: 240-volt – (10 Amp)
- Pipe Connections: 90mm round
- Max Output: 320kpa at tap
- Max Head: 30m





Aquagarden Tower

Dimensions – 1000 litre System

Width: 1180mm (does not include plumbing or Frogmouth filter)

Height: From base to top of tank: 2010mm
From base to top of controller: 2178mm

Depth: 600mm

Dimensions – 2000 litre System

Width: 2364mm (does not include plumbing or Frogmouth filter)

Height: From base to top of tank: 2010mm
From base to top of controller: 2178mm

Depth: 600mm



Aquagarden

Oasis

Aquagarden Oasis

Dimensions – 1700 litre System

Width: 1600mm (does not include plumbing or Frogmouth filter)

Height: From base to top of tank: 1880mm
From base to top of controller: 2045mm

Depth: 780mm

Dimensions – 850 litre Add On System

Width: 820mm (does not include plumbing or Frogmouth filter)

Height: From base to top of tank: 1880mm

Depth: 780mm

Systems are available in the following colour combinations

Tank	Accessories, Cap, base, front panel
Smooth Cream	Smooth Cream
Smooth Cream	Mist Green
Smooth Cream	Mountain Blue
Mist Green	Mist Green

Aquagarden Modern

Dimensions – 750 litre System

Width: 810mm (does not include plumbing or Frogmouth filter)

Height: From base to top of tank: 1830mm
From base to top of controller: 1920mm

Depth: 760mm

Dimensions – 1500 litre System

Width: 1620mm (does not include plumbing or Frogmouth filter)

Height: From base to top of tank: 1830mm
From base to top of controller: 1920mm

Depth: 760mm



Aquagarden

Modern

TANK TO TOILET SYSTEM

Aquasource

The complete Aquasource® system is a state-of-the-art, modular rainwater utilisation system designed to reduce a household's dependence on mains water for non-drinking purposes such as toilet flushing and laundry use.



Aquasource®
Tower

Aquasource Features

- The Aquasource® Interconnect Valve, controller and pump are matched to provide a highly efficient and synchronised system.
- Automatic water source changeover maximises the use of available rainwater.
- The Aquasource® Interconnect Valve is a certified Water Mark product.
- Valve is designed and manufactured to exacting specifications.
- High-flow transfer rate ensures greater application of water usage.
- Factory fitted backflow system that prevents contamination of the mains water connection.
- Stainless steel pump provides cooler running in slim-line tanks and helps to maintain rainwater quality.
- Unlimited capacity – just keep adding tanks in 1000 litre increments
- Controller features a LED display panel that shows when the pump is running and when rainwater is available.
- The system does not allow mains water and rainwater to mix, therefore maximising potable water savings.
- Easily caters for Frogmouth filter which is sold separately (refer page 4)
- Convenient plug and play technology for easy installation.

All Units Supplied With

- Stainless steel submersible pump
- Tank
- Controller
- Aquasource® mains water interconnect valve
- Operators manual
- “Rainwater Utilisation system in use” sign

Stainless Steel Submersible Pump



Pressure Controller



Aquasource interconnect valve



Basic Specifications

- Power: 240-volt – (10 Amp)
- Pipe Connections: 90mm round
- Flow rate of 60L/min at 25m head



Aquasource Tower

Dimensions – 1000 litre System

Width: 1200mm (does not include plumbing or Frogmouth filter)

Height: From base to top of tank: 2010mm
From base to top of controller: 2200mm

Depth: 600mm

Dimensions – 2000 litre System

Width: 2400mm (does not include plumbing or Frogmouth filter)

Height: From base to top of tank: 2010mm
From base to top of controller: 2200mm

Depth: 600mm

Aquasource Oasis

Dimensions – 850 litre System

Width: 820mm (does not include plumbing or Frogmouth filter)

Height: From base to top of tank: 1880mm
From base to top of controller: 2105mm

Depth: 780mm

Dimensions – 850 litre Add On Tanks

Width: 820mm (does not include plumbing or Frogmouth filter)

Height: From base to top of tank: 1880mm

Depth: 780mm

Aquasource Modern

Dimensions – 750 litre System

Width: 810mm (does not include plumbing or Frogmouth filter)

Height: From base to top of tank: 1830mm
From base to top of controller: 1955mm

Depth: 760mm

Dimensions – 1500 litre System

Width: 1620mm (does not include plumbing or Frogmouth filter)

Height: From base to top of tank: 1830mm
From base to top of controller: 1955mm

Depth: 760mm



Aquasource[®]
Oasis

Systems are available in the following colour combinations

Tank	Accessories, Cap, base, front panel
Smooth Cream	Smooth Cream
Smooth Cream	Mist Green
Smooth Cream	Mountain Blue
Mist Green	Mist Green



Aquasource[®]
Modern

CONCRETE SLAB SYSTEM

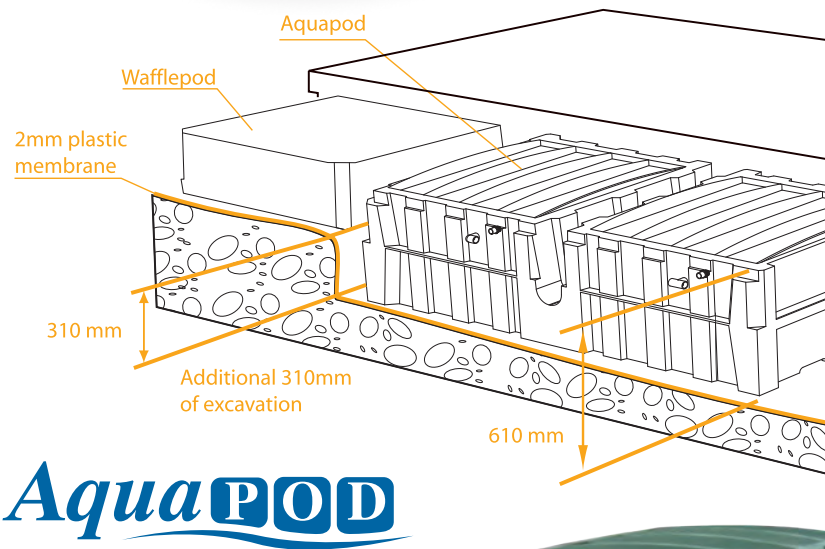
Aquapod

The Aquapod system places the rainwater storage within the concrete slab of the home. The Aquapod system is therefore an on ground system with all of the advantages this gives.

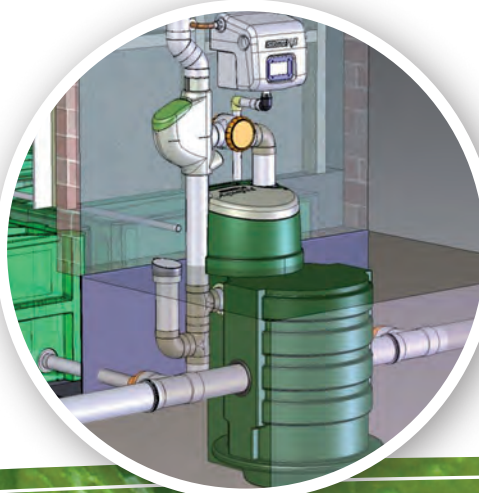


Aquapod Features

- Solve the space problem with no additional requirement on the landscape.
- Aquapod is classified as an on ground system with all the advantages this gives over an underground system.
- Fully engineered complete system with over 100 Aquapods under concrete; delivering a well trialed and documented installation process.
- Has no interconnecting pipe work within the concrete slab; eliminating the chance of leakage within the slab.
- Includes an all important constant filtration system which importantly protects the Aquapod from build up of pollutants found in rainwater. Final filtration is also connected before internal plumbing.
- A pump and service chamber sits in the ground outside the house allowing easy service and maintenance.
- Aquapod system is supplied with Silvan H₂O's own Aquasource Interconnection valve. Reverts to mains water instantly if the tank is empty, or during electrical failure. A water level indicator shows the amount of rainwater stored in the Aquapods.
- The dimensions of the Aquapod are such that they replace two standard waffle pod positions, holding a water volume of 1200 litres. A total of 4 pods plus the manifold and pump chamber will give a capacity of 5000 litres.



The Aquapod service and pump chamber (SPC) is the workhorse of the complete system. This SPC supplies the filtered rainwater to the pods for storage via the manifold. A water level indicator shows the amount of water in the total pod.





INTERCONNECT VALVE

Aquasource



The Aquasource interconnect valve is a leading edge product that offers optimum performance and only uses quality components to ensure the best performance possible, including a Burkert fluid control manifold.

- It is an innovative interconnect device that enables the use of mains water and rainwater.
- The supplementary system automatically sources rainwater from the rainwater tank as the primary source.
- The back-up mains water supply is seamlessly used when the rainwater supply is exhausted or during electrical failure.
- The Aquasource interconnect valve is water mark certified and complies with regulatory specifications and Australian standards, so consumers can be confident the quality of the valve won't let them down.



Aquasource®

Controller

The Aquasource controller combines hydraulic and electronic components that detect water pressure and flow to supply water to the system on demand. It features a LED display panel that shows when the pump is running and when rainwater is available.



Pumps

The Aquasource pump is placed inside the tank to minimise noise and keep it out of sight and away from the elements.

- It incorporates a float switch that turns the pump on when adequate rainwater is in the tank and turns off when water level is low.
- The stainless steel pump provides cooler running in slim-line tanks that helps maintain rainwater quality and has a flow rate of 60l/min at a height of 25 metres.



FIRST STAGE FILTER

Frogmouth

The Frogmouth is a first stage filter that through its unique low maintenance design, removes leaves and gutter debris. It is fully closed, protecting the rainwater storage from mosquitoes and restricting light from entering that helps to reduce algae growth.



Frogmouth Overview

- Rainwater from the roof enters the filter from the down pipe, passes through the mosquito proof stainless steel mesh and into the storage tanks.
- Dirt, leaves, moss and other debris from the roof is diverted by the mesh and unique roller system in the filter directly to the storm water system.
- In the event of storm water being forced back up into the filter, this contaminated water is trapped in the lower chamber of the filter and expelled via the lower flap. Once the water pressure drops, the flap closes sealing the filter from birds, pests and vermin.
- When the storage tanks are filled, excess water is prevented from entering the tanks and is diverted by the filter into the storm water drain.
- Normally one Frogmouth would be used on 100 square meters of roof collection area. On larger roof areas two Frogmouth filters are used entering from each end of the tank.

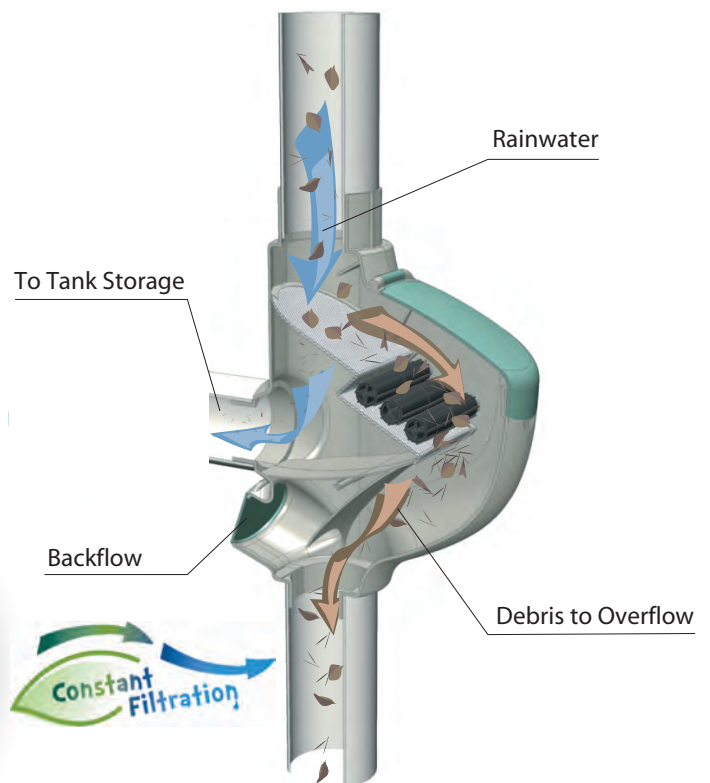
Frogmouth Benefits

- Closed filter system protects rainwater storage from dirt, leaves, moss, vermin, mosquitoes and other debris
- Easy to install, just cut and glue
- Fits to most tank systems
- Requires minimum cleaning



Frogmouth Features

- Storm water back flow prevention inbuilt – prevents contamination of tank contents
- High performance, stainless steel, 2 stage filtration system.
- 90mm high water flow connectors
- Rugged ASA plastic construction



FIRST STAGE FILTER

Tadpole

The Tadpole is a first stage filter designed for wet and dry systems. It has a 5.0mm and 0.9mm dual stainless steel filtration mesh housed in an enclosed casing to prevent biological growth and insect breeding (mosquitoes) No need to clean leaves and debris from basket type rainheads.



Tadpole Overview

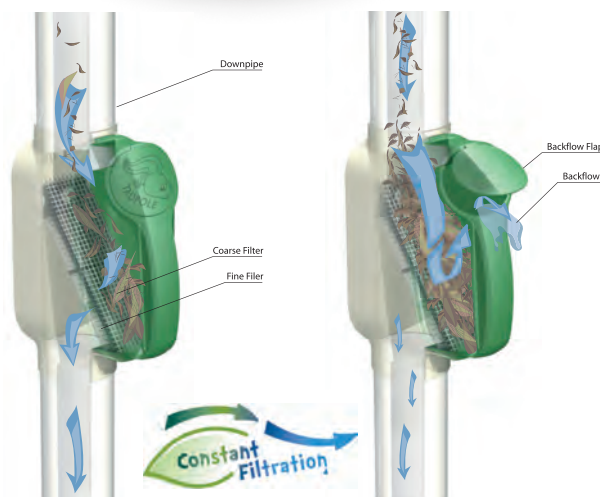
- The Tadpole is a multipurpose first stage filter designed for efficient filtering of rainwater debris and easy cleaning.
- The Tadpole has dual mesh filters – 5mm and 0.9mm
- Can be cut into existing downpipes at convenient to reach height.
- Filter is removable for easy cleaning or replacement
- The Tadpole filter has a built in backflow outlet to prevent water backing up the downpipe in the event of a blocked downpipe.

Tadpole Features

- Constant Filtration Technology - for wet and dry systems.
- 1st stage filtration
- Slim profile against wall at tank level
- Improved tank water quality
- Heavy duty moulding for longer life
- Back flow prevention to safeguard gutter overflow

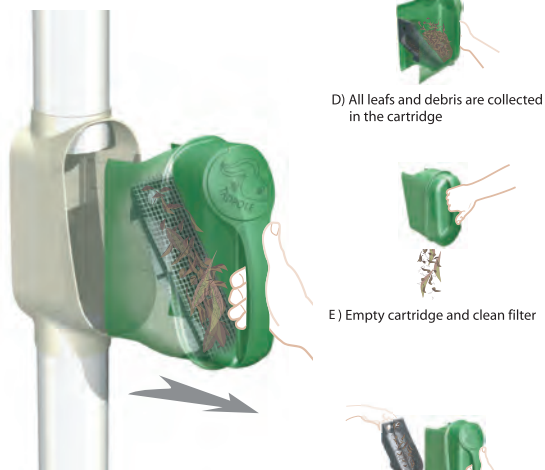
Tadpole Benefits

- Easy installation – in line with downpipe
- Debris is collected in easy to empty cartridge – no need to clean leaves and debris from basket type rainheads
- Closed system protects rainwater storage from light and vermin
- Prevents biological growth and insect breeding (mosquitoes)
- High flow capacity whilst compact enough to suit 90mm pipe inlet & outlet



A) Tadpole filtration during normal conditions

B) Backflow prevention to safeguard gutters



C) Remove cartridge for cleaning

F) If necessary remove filter assembly from the cartridge and clean

SECOND STAGE FILTER

Wet Frog

The Wet Frog second stage constant filtration system is the ideal solution for wet systems. It is designed as a completely sealed unit to filter through a 500 micron stainless steel mesh that removes fine silt that can damage washing machines when using rainwater from tanks.



Wet Frog Overview

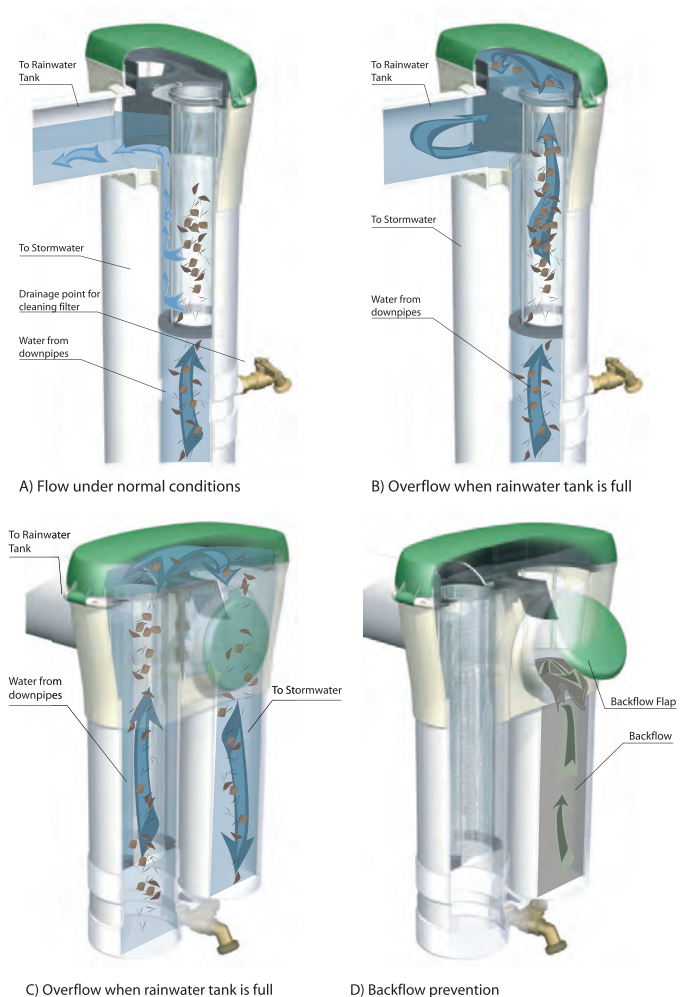
- In normal conditions water flows up through the inlet pipe and through the filter. As the water reaches the inlet level of the tank the water passes through the filter, leaving the silt and fine debris in the centre of the filter.
- If the tank is full, water flows through the wet frog and down the overflow pipe.
- In the event of storm water blockage water will exit the back flow cap preventing dirty water from entering the tank.
- The filter cartridge can be removed for easy cleaning or replacement.
- Suitable for left or right hand mounting.

Wet Frog Features

- Constant Filtration for Wet Systems.
- Ideal for removing fine silt which can damage washing machines when using rainwater from tanks
- Single entry to tank
- In built back-flow prevention

Wet Frog Benefits

- Easy installation, inspection and cleaning
- Closed system protects rainwater storage from light, mosquitoes and vermin
- Lower maintenance than dry filter models
- High volume whilst compact enough to suit 100mm pipe inlet & outlet
- 500 micron stainless steel mesh filters fine silt and most pollens
- The unique design provides a single entry and overflow to the tank





FINAL STAGE FILTER

Lazy Lizard

Lazy Lizard is a final stage filter that works with the Frogmouth filter or other rain head type filters with a 0.9mm mesh. It features a 240 micron stainless steel mesh filter that removes materials such as pollen, sand and silt, ensuring cleaner water is delivered to washing machines and toilets, and helps prevent sediment build-up in hot water.



Lazy Lizard Overview

- Lazy Lizard should be fitted after a first stage filter
- The rainwater passes through the lazy lizard's 240 micron marine grade stainless steel filter where additional pollutants such as pollen, sand and silt are removed.
- Transparent cover for checking filter cleanliness
- The filter cartridge can be removed for easy cleaning or replacement.
- Lazy Lizard can be reversed for left or right side installation
- Lazy Lizard can be mounted vertically or horizontally.

Lazy Lizard Features

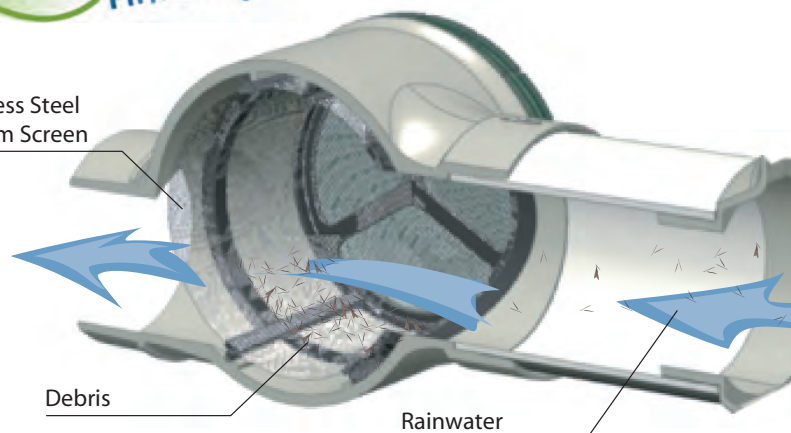
- Ideal for second stage filtration
- Ideal for removing fine silt which can damage washing machines when using rainwater from tanks.
- Strong PVC plastic construction.

Lazy Lizard Benefits

- High flow rate through stainless steel mesh
- 240 micron stainless steel mesh filters most pollens and fine material.
- Inspection and cleaning is easy.



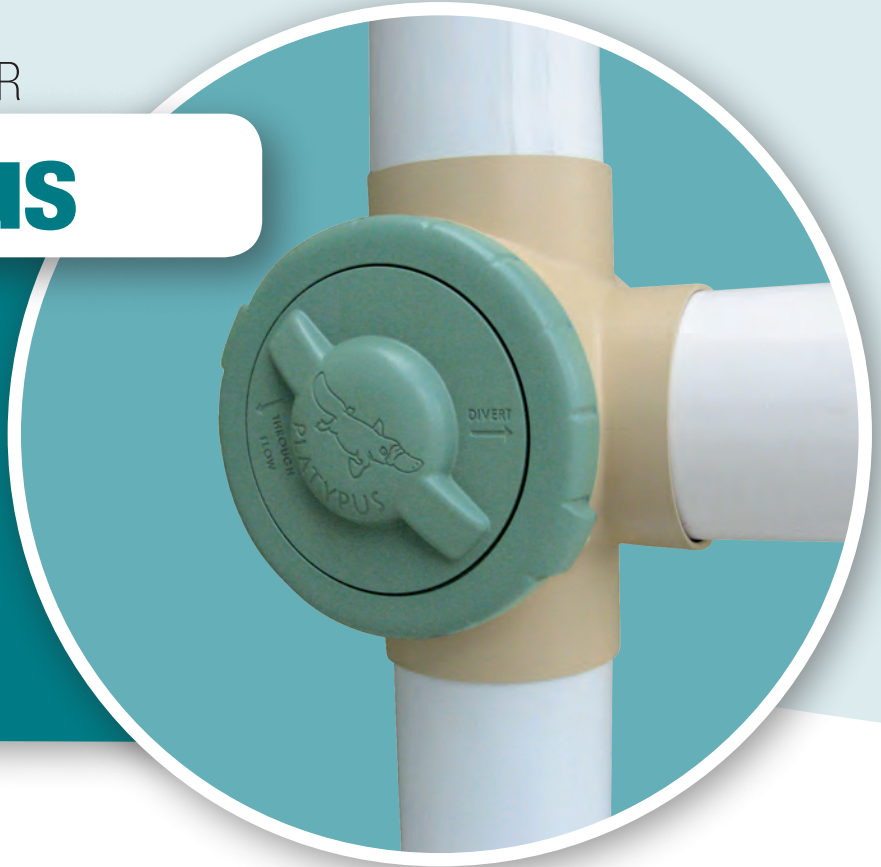
Stainless Steel
250mm Screen



RAINWATER DIVERTER

Platypus

The Platypus is a rainwater diverter to the pool or garden by simply turning the selector 90° (to the direction required). Platypus diverters can also be used to divert grey water from the laundry or bathroom.



Platypus Overview

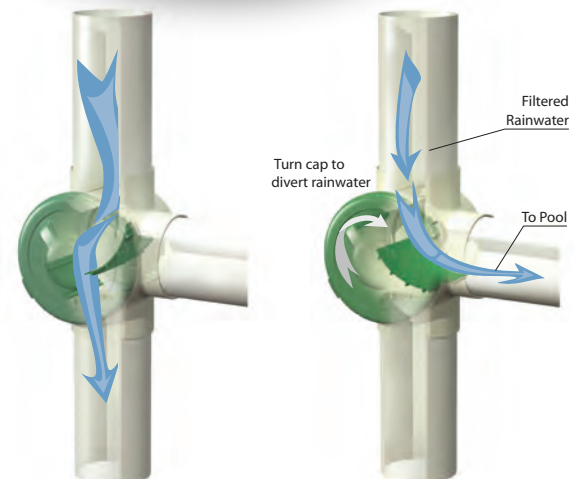
- Ideally suited to divert rainwater from downpipes to garden or pool.
- The Platypus can also divert grey water from the laundry for reuse in the garden
- The Platypus has an integrated backflow system to protect washing machine pumps and filter system should the outlet block.
- Use an adaptor to connect purple flexible pipe.
- The purchaser should check local regulations on greywater reuse prior to install.
- Strong ASA plastic construction with lubricated o-ring for long trouble free operation.

Platypus Features

- Rainwater diverter – divert water to the pool or garden
- Integrated system – can be used with Tadpole or other filters to provide filtered water which means less pool cleaning.
- High flow capacity
- Back flow prevention
- Sealed system for mosquito prevention

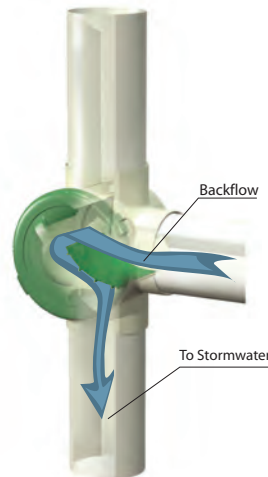
Platypus Benefits

- Easy installation
- Simple operation – turn the selector 90° (to the direction required)
- Anti siphon back flow from outlet
- Heavy duty moulding for strength and appearance
- High flow capacity



A) Filtered rainwater running straight to stormwater

B) Platypus diverting filtered rainwater to pool



C) Backflow prevention



Tank Fittings

90mm Inverted Flange*

Code: PVC90MM



90mm Flange*

Code: PVC90MMFL



100mm Flange*

Code: PVC100MMFL



* All flange fittings mount using 6 pre moulded holes and are supplied with a sealing rubber

25mm Quick Union

Code: PPU25MF



50mm Joiner Kit

Code: JJ50-KIT



100mm Flap Valve

Code: BFVALVE



Tank Mount Kit

The Aquasource® rainwater utilisation system has been designed to connect to almost any rainwater holding tank and automatically switch from mains to rain water. They also have a maximum 600kpa rating at mains pressure and provide a high flow rate from pump to areas of the home.

The Aquasource tank kit can be mounted to the top of most rainwater harvesting tanks with a 300mm strainer inlet.

Contents of tank mount kit

- 300mm inlet tank cover
- Aquasource interconnect valve
- Aquasource controller
- Aquasource stainless steel submersible pump
- Installation fittings
(25mm PVC pressure pipe from pump to controller not included)



Stand Alone Pump Kit

The Aquasource® rainwater utilisation system has been designed to connect to almost any rainwater holding tank and automatically switch from mains to rain water. They also have a maximum 600kpa rating at mains pressure and provide a high flow rate from pump to areas of the home.

Contents of stand alone pump kit

- Pump cover and base to ensure protection from the elements
- 12 Volt float system for simple installation
- Aquasource interconnection valve uses rainwater as a first source and will revert to mains water instantly if the tank is empty or during electrical failure.
- Pump inlet fitted with y-filter
- Grundfos pump and controller ideal for rainwater application with stainless steel shaft and polymer pump body



Pictured with
Aquaselect
Rainwater valve



Wall Mount Kit

The Aquasource® rainwater utilisation system has been designed to connect to almost any rainwater holding tank and automatically switch from mains to rain water. They also have a maximum 600kpa rating at mains pressure and provide a high flow rate from pump to areas of the home.

The Aquasource tank kit can be mounted near most rainwater harvesting tanks.

Contents of tank mount kit

- Galvanised mounting bracket
- In-line suction filter (y strainer)
- Aquasource interconnect valve
- Aquasource controller
- Aquasource stainless steel submersible pump
- Installation fittings (25mm PVC pressure pipe from pump to controller not included)
- 10m pump & flow cables



Garden Watering Pump Kit

The Aquagarden Kit is a universal garden watering pump kit which can be retrofitted to most tanks.

Kit Features

- Submersible pump fits inside the tank to minimise noise and keep it protected
- Pump controller automatically starts pump when tap or hose is turned on
- Pump will not run if there is no water in the tank
- Not suitable for running sprinklers or dripper systems

Kit Includes

- Submersible pump with float
- Pressure controller with LED display
- Instruction booklet
- Rainwater Utilisation system in use" sign

Optional Extra's

- 280mm diameter mounting plate to fit pressure controller to top of tank.



RAINWATER DIVERTER VALVE

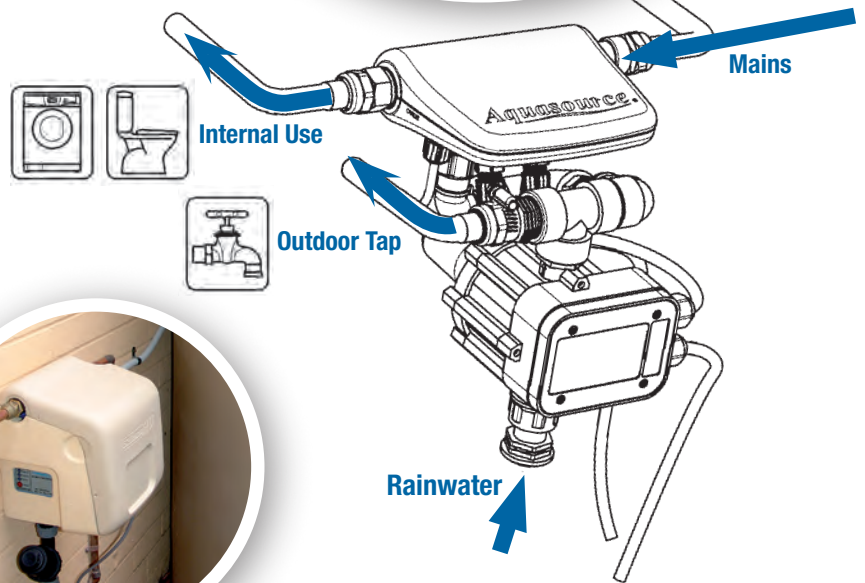
Aquaselect

The innovative new valve that uses the same pump and controller for both garden watering and laundry or toilet flushing



Aquaselect Features

- Will supply rain water when available to all outlets
- The second outlet for connection to a garden tap will supply only rain water
- Incorporating the Aquasource interconnect valve means mains water back up is automatic to internal plumbing only
- The same pump and controller are used for all functions
- Garden tap can be operated at the same time as internal plumbing demand
- Indication via controller power on light that rain water is available
- Aquaselect can be supplied as a tank top mount kit, a wall mount kit or the stand alone kit
- A wall mount cover is also available as an optional extra for a more compact install



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Silvan H₂O

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