

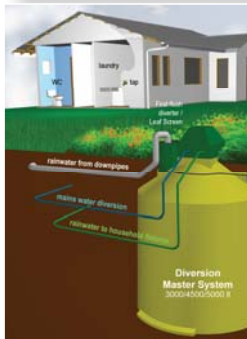


www.actiontanks.com.au

OWNERS MANUAL

Underground Rainwater Harvesting Systems

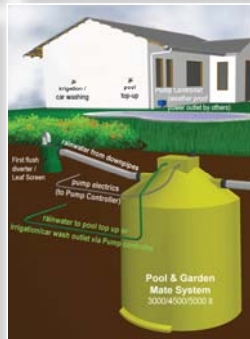
BASIX / DIVERSION MASTER



SPLIT MASTER



POOL & GARDEN MATE



Thanks for supporting the Action Child Safe Initiative!

Laurie Lawrence

Action Tanks pumped by



Most Innovative Product of the Year 2007

WELCOME

Thank you for purchasing your Action Underground Rainwater Harvesting System

Please take the time to read through this manual as it will help you identify your system and provides related information.

Ensure you complete and post the Warranty Registration Form (7.0)

Owners Manual Contents

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1.0 What is an Action Underground Rainwater Harvesting System?

Action Underground Rainwater Harvesting Systems are a complete all-in-one system used to collect, store and re-use rainwater for non-drinking applications. Child Safe and out-of-sight, these systems are a great addition to any home, business or commercial property. Available in 3000L, 4550L and 5000L cells or multiples of, Action Underground Rainwater Harvesting Systems can be connected to create large reservoirs (see Servant Tank). To date the largest system installed has a capacity of 175,000 Litres and is installed at Coffs Harbours Ex-Services Club.



Owning an Action Underground Rainwater Harvesting System assures you conserve water, keep children safe and help the environment, keep your garden green, your pool topped-up and add value to your property. We hope you enjoy the benefits of owning this state-of-the-art water conservation solution from Action Tanks.

2.0 Australian Standards - Why they are so important?

They provide the home owner, the builder, the plumber, the approving authority with the surety that a product approved to carry the standards licence, meets the highest standard of quality testing and that it will perform the job it is designed to do. Compliance with the Australian Standards evidences a commitment to quality and best practice. A failure to provide products to that standard can expose not just the owner, but builders, local authorities and certifiers to legal action in the event that there is any loss or damage suffered by use of a non-compliant product.

Action Tank Industries - Providing peace of mind with Quality Products



3.0 Which system is installed at my property?

You will have one or more of the following systems installed at your property. Please read through the details to identify your system. Identifying your system will help you to understand how your system works, what it consists of and will help with future maintenance and troubleshooting.

3.1 Basix Master

Serial Number ends with 'BO'

What is it for?

Alternate water source for Garden taps or where council regulations specify trickle top up use for toilet and laundry.

What does it consist of?

- Control box located on top of tank
- Action Water Cell
- Submersible pump
- Mains water trickle top up - tank fills to 20% of volume
- Visible air gap - back flow prevention
- Pressure controller
- Electrical - only hardwiring required
- 1st flush diverter and leaf screen incorporated into top of tank
- Access to tank for de-sludging and maintenance
- Aust. standards (AS/NSZ 1546.1) / Smart Watermark & Council approved



How does it work?

The water level for the 'Basix Master' system will constantly be replenished by town/ mains water to maintain a 20% level in the tank. Some council areas have a low trickle top-up rate. To avoid the tank running dry when irrigating or using outside taps for extended periods, a 'low level cut off switch' is included in your system to turn the power off to the pump. Once the water has been topped up to the 20% level, the system will return to normal operation.

In heavy rain, your system is designed to overflow from the leaf screen/ 1st flush diverter. This is designed to protect the visible air gap back flow prevention device which is located within the control box attached to the top of the tank.

3.2 Diversion Master

Serial Number ends with 'DO'

What is it for?

Alternate water source for toilet, laundry (cold water tap) and/or external taps

What does it consist of?

- Control box located on top of tank
- Action Water Cell
- Submersible pump
- Automatic mains water diversion - switches to mains water when tank water is low or during power outage
- Testable double check valve - back flow prevention
- Onga WaterSwitch
- Electrical - only hardwiring required
- 1st flush diverter and leaf screen incorporated into top of tank
- Child safe 150mm dia. access to tank for de-sludging and maintenance
- Aust. standards (AS/NSZ 1546.1) / Smart Watermark & Council approved

How does it work?

When your tank water reaches low level, the WaterSwitch switches over to mains water supply, the red mains water indicator light will illuminate. You will continue to use mains water supply until the next heavy rain event. At this point the water supply will switch to tank water and the mains water indicator light will turn off.



3.3 Split Master

Serial Number starts with 'SB'

What is it for?

Alternate water source for toilet, laundry (cold water tap) and/or external taps

What does it consist of?

- Control box located separately to underground tank thus a 'split' master
- Action Water Cell
- Submersible pump
- Automatic mains water diversion - switches to mains water when tank water is low or during power outage
- Testable double check valve - back flow prevention
- Onga Waterswitch
- Electrical - only hardwiring required
- 1st flush diverter and leaf screen (optional extra)
- Child Safe 150mm dia access to top of tank for de-sludging and maintenance
- Aust. standards (AS/NSZ 1546.1) / Smart Watermark & Council approved

How does it work?

When your tank water reaches low level, the WaterSwitch switches over to mains water supply, the red mains water indicator light will illuminate. You will continue to use mains water supply until the next heavy rain event. At this point the water supply will switch to tank water and the mains water indicator light will turn off.



3.4 Pool & Garden Mate

No visible serial number

What is it for?

For pool top-up, garden watering and car washing

What does it consist of?

- Action Water Cell
- NO Control Box
- Onga Submersible pump
- Mini Press Control
- 1st flush diverter/ leaf screen
- Child Safe 150mm dia access at top of tank for de-sludging and maintenance
- Aust. standards (AS/NSZ 1546.1) / Smart Watermark & Council approved

How does it work?

Your Pool & Garden Mate uses only rain water that is captured from your roof.

When your tank has a sufficient water level your pump will deliver water to your taps.

When your tank runs low on water, your pump will stop until after the next adequate rain event, At this time, when the tank has refilled, you will need to reset your pump which will allow you to resume using your tank water.



3.5 Servant Tank

Serial Number ends with S

What is it for?

Inter connects to your Master System to provide a greater capacity or issued as a water storage vessel on its own.

What does it consist of?

- NO control box needed as the servant tank connects to your master system
- Action Water Cell
- 100mm Inlet & overflow
- 150mm dia Inspection port
- 50mm Inter connection point
- Aust. standards (AS/NSZ 1546.1) / Smart Watermark & Council approved

How does it work?

Servant tanks are connected to Master tanks to create greater water holding capacity.



4.0 General Maintenance

- Clean leaf screen/ 1st flush diverter as required (or once every 3 months).
- Keep garden beds level with the bottom of the control box.
- Keep 'Control Box' air vents clear of dirt and garden mulch ((Diversion and Basix systems)

Overview

The water that goes into your tank will be the water that comes out of your tank, by keeping gutters clean, leaf screen free of leaves and debris, garden beds at the proper height and checking for damaged pipe work, you will ensure your tank water quality will be at its best.

Once installed, your tank will be sealed so that insects, small animals, birds and sunlight cannot enter; this is also a good safety precaution to prevent children from accessing the tank. Sealing your tank also helps to minimise the growth of algae.

RECORD VISUAL INSPECTION OF PUMP VENTS (every 3 months)

Date _____

CLEAN LEAF SCREEN 1ST FLUSH DIVERTER (every 3 months or as required)

Date _____

INSPECT AND CLEAN GUTTERS (if leaf guards are not installed)

Date _____

TESTABLE DOUBLE CHECK VALVE (upon commissioning and every 12 months thereafter, as per water authority requirements)

Date _____

VISUAL CHECK FOR LEAKS (every 3 months)

Date _____

INLINE FILTER MAINTENANCE

An inline filter is placed between the pump and WaterSwitch this filter should be cleaned when your testable double check valve is tested or when your water pressure has reduced.

DESLUDGING (as per regulation recommendations)

The first rainfall after a dry period usually collects most of the contaminants on your roof. Your '1st Flush' or other diversion system will prevent most of this debris from entering your water tank. Regularly maintain your water tank and clean out accumulated sludge from the base. You should check your tank for sludge accumulation every 2-3 years (see General Maintenance).

5.0 Trouble-Shooting Guide

IMPORTANT - IF YOU BELIEVE YOUR SYSTEM IS NOT FUNCTIONING CORRECTLY AND YOU DO NOT HAVE TIME TO TROUBLE SHOOT, TURN OFF THE POWER SUPPLY IMMEDIATELY – FAILURE TO DO SO MAY VOID SOME WARRANTIES.

| Issues | Possible Cause | Solution |
|--|---|--|
| PUMP TYPE: Onga WaterSwitch (Diversion & Split Master) /// Press Controller (Pool & Garden Mate) | | |
| No water is being delivered from pump | Water tank is empty *Pool & Garden Mate | Wait until the next rain event. *Pool & Garden Mate: When the tank is full again you will need to reset the pump. See below |
| | Pump is in loss of Prime Protection Mode (PGM) | Reset pump press controller by pressing the red button and wait 30 seconds |
| | No power at outlet | Check power supply circuit and plug |
| | Bad signal from level sensor | Check installation and operation of level sensor (see Onga owners manual) |
| | Pump has overheated | Allow pump to cool |
| | Pump is worn by abrasive or chemically aggressive materials | Have pump serviced by a professional. Check rainwater system for source of materials. |
| | Hose has come off pump | Open tank and check hose is connected to the top inside of the tank |

5.0 Trouble-Shooting Guide (cont.)

| Issues | Possible Cause | Solution |
|---|---|---|
| No water is being delivered from pump [water switch has gone into 'lost prime' mode (mains LED on & tank LED flashing)] | Gate (stop valve) at tank outlet is closed, or other tap is closed. | 1.Open gate valve. 2.Check other taps (e.g. toilet water cistern tap) to make sure they are fully open. |
| | Filter cartridge is at end of life | Replace filter cartridge. |
| No water supply at all | Valves are closed | Open all valves |
| | Blockage in system | Clean tank interior, unblock all pipes. |
| | Incoming mains water pressure is greater than 500kPa | Fit a pressure reduction valve to reduce incoming pressure. |
| Poor water pressure | Filter cartridge at end of life | Replace filter cartridge. |
| | Too much flow through Onga WaterSwitch. | Have a pump professional or plumber look at the flow rate. |
| | Pump is too small for the application. | Have a pump professional recommend a larger pump |
| Toilet is not filling - but there is water from other rain water taps | Toilet inlet is blocked | Check toilet inlet for blockages |
| Red flashing light on outside of 'Control Box' | You are using town/mains water not tank water | |
| Red flashing light on outside of 'Control Box' after a rain event | Your system is not switching to tank water | 1.Check there is enough water in the tank to activate the pump 2.Test pump is functioning correctly (see maintenance guide) 3.Call service agent |
| Water is overflowing from the leaf screen/ first flush diverter | 1.You are experiencing a heavy rain event 2.Your leaf screen is blocked 3.Check the installation is correct | 1.The capacity of water entering the tank is greater than can be taken 2.Clean leaf and debris from leaf screen 3.Check outlet is not blocked by the overflow to the street, easement or absorption pit 4.Call installer to check installation |

5.0 Trouble-Shooting Guide (cont.)

| Issues | Possible Cause | Solution |
|--|--|---|
| No water coming out of down pipe into leaf screen during rain event | <ol style="list-style-type: none"> 1.You are experiencing only light rain 2.Your stormwater line from house to leaf screen is blocked 3.Your stormwater line from house to leaf screen is cracked or broken | <ol style="list-style-type: none"> 1.You will require moderate to heavy rain fall to reach your tank 2.Check the storm water supply is not blocked by putting a hose in the down pipe and checking water is flowing through pipe 3.Call plumber for assistance |
| Leak in 'Control Box' | Fitting are loose or over tightened | Contact installer |
| Dirty water in toilets / taps | <ol style="list-style-type: none"> 1.Tank water is discoloured 2.Tank water is dirty | <ol style="list-style-type: none"> 1.Clean leaf screen - see maintenance guide 2.Check garden mulch is well below the top of the first flush diverter/leaf screen 3.Check for broken stormwater delivery pipe 4.Desludging of tank may be required 5.Dirt has entered the tank during construction |
| Pump coming on when water is not in use | Leak in system/pipes | <ol style="list-style-type: none"> 1. Turn stop valve to outlet of tank to the closed position - if the pump stops after 30 seconds check all toilets for leaks 2.If the pump is still running after 30 seconds - Check all fittings and hoses in 'Control Box' for leaks (does not apply to Pool & Garden Mate) 3.Check pump delivery hose inside tank for leaks 4.Call a service person |
| <p>IMPORTANT - DO NOT LEAVE YOUR PUMP RUNNING IN THIS CIRCUMSTANCE - TURN THE POWER OFF TO THE 'CONTROL BOX' UNTIL THE ISSUE CAN BE ISOLATED USING THIS GUIDE (your tank will then delivery mains water)</p> <p>Note : Basix Masters do not switch to mains when power is turned off.</p> | | |

ONGA PUMP & WATERSWITCH

For more specific information about your Onga pump and WaterSwitch please see the Onga owner's manuals located in your home owners pack inside the control box, or ask your installer for your copy, or contact Onga (Pentair Water) on 1300 137 344.



6.0 Warranty Information

Action Tank Industries Pty Ltd (hereafter referred to as "Action Tank Industries" or "ATI") warrant the workmanship of Above Ground and Underground Polyethylene Tanks manufactured by them for a period of 10 years, commencing from the date of purchase.

1. Action Tank Industries Pty Ltd and its associated entities honour their obligations under the Trade Practices Act 1974 and the Fair Trading Act (Qld), however, all other warranties not specifically provided by this contract but otherwise implied by law, are expressly negated and excluded.
2. ATI warranty is offered to the original purchaser only and is not transferable. Proof of purchase must be supplied with any warranty claims.
3. This warranty only extends to systems installed correctly and on suitable bases (please refer to installation instructions). Absolutely no responsibility will be taken for tanks physically damaged after they leave our possession and once they have been signed for as being received in good condition. (Where lifting lugs are moulded, lifting must be carried out from horizontal position and lifted by both lugs evenly).
4. This warranty is limited to repair or replacement of the Underground Water Cell and/or the Above Ground Tank only. This warranty is to cover parts and labour with respect to the underground water cell and/or the above ground tank. This warranty does not cover other components (such as, but not limited to solenoids, pressure switches and controllers) which are manufactured and provided to Action Tank Industries by another company. These components are to be covered by their own manufacturer's warranty and the warranty attaching to these components is a "parts replacement" warranty and not "parts and labour". The length of warranty attaching to these other components will vary depending upon the manufacturer.
5. Consumable items and fittings such as, but not limited to strainers, overflows, brass top-up valves, pipes, hoses and floats are not covered by this ATI warranty.
6. The pump was not manufactured by Action Tank Industries and is not covered by this Warranty but instead is covered by the Pump Manufacturer's Warranty (Please refer to the pump warranty sheet).
7. This warranty is void in events such as, but not restricted to abuse, improper installation, improper base, improper back filling or unauthorised modification to the tank.
8. ATI will not be liable for any consequences due to loss, including, but not limited to loss of profits, loss of water or damage to property.
9. This warranty applies to the storage of water only. Storage of any other materials in the Underground Water Cell/Above Ground Tank will void the warranty.
10. This warranty is void in the event of war, civil unrest, terrorist activities or any other factors beyond the control of ATI.
11. This warranty does not apply to the colour of the Underground Water Cell/Above Ground Tank or control box casing, which may in time fade or change.
12. ATI must be advised in writing of any defect or fault within seven days of it occurring and given the opportunity to inspect the Underground Water Cell/Above Ground Tank within twenty-eight days of such notification.
13. This warranty does not cover damage to unsecured Underground Water Cells, Above Ground Tanks or Control Boxes, which may be left on-site under the direction of the purchaser.
14. All tanks must be positioned within three (3) days from time of delivery. If you plan to leave the Above Ground Tank(s) on it's side for a longer period, please make sure the tank is regularly rolled to avoid the wall and lid from folding in. Failure to do so will void the warranty.
15. Underground Water Cells and pumps must be commissioned within 30 working days. Failure to do will void this warranty.

Formit Slimline Tanks (SPT2500) and Formit Rainwater Management Systems (RMS-SPT2500) are covered by a 20 year fix or replace tank guarantee. For warranty information on these products please call (02) 4353 128



WARRANTY REGISTRATION FORM - TO BE COMPLETED & POSTED

Failure to do so may void warranty

** SEE REVERSE SIDE ALSO **

PLEASE COMPLETE THE FOLLOWING FORMS & SEND TO:

Action Tank Industries Pty Ltd, PO BOX 1836, Noosaville BC, QLD 4566

7.0 Warranty Registration Form (Page 11)
9.0 Product Warranty Information (Page 12)



7.0 Warranty Registration Form

IMPORTANT: ALL TANKS MUST BE REGISTERED.

This form is to be completed by the Underground Rainwater Harvesting System **owner** and posted to Action Tank Industries (PO BOX 1836, Noosaville BC, QLD 4566).

Owner details: First Name: _____ Last Name: _____

Address: _____

Suburb: _____ P/Code: _____

Phone (Daytime): _____ Email: _____

Address of installed tank: _____

Suburb: _____ P/Code: _____



Action Tank Industries Pty Ltd abn 53 104 456 974

25 Production Street, Noosaville Q 4566

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8.0 Product Warranty Information (Customer Copy)

Purchased from: _____ Suburb: _____ Date: _____

Installed by: _____ Suburb: _____ Date: _____

Tank Serial Number(s)

Master: _____ Servant(s): _____
Tank serial number are located on the underside of the control box lid

Control box serial number (Split system): _____
Located underside of control box lid



9.0 Product Warranty Information

IMPORTANT: TO BE COMPLETED BY PLUMBER/ INSTALLER

Purchased from: _____ Suburb: _____ Date: _____

Installed by: _____ Suburb: _____ Date: _____

Tank Serial Number(s)

Master: _____ Servant(s): _____
Tank serial number are located on the underside of the control box lid

Control box serial number (Split system): _____
Located underside of control box lid

PLEASE NOTE:

Master tank includes pump and storage cell; Servant tank includes storage cell only.