

UPP Rainwater Harvesting Maintenance Checklist



AT UPP, WE BELIEVE THAT THE FUTURE OF WATER IS THROUGH SAVING IT AS MUCH AS WE CAN.

We are passionate about designing and implementing sustainable water solutions, including back-up water, rainwater harvesting and grey water harvesting (UPP is an accredited JoJo Tank installer).

This maintenance checklist will help keep your rainwater harvesting system functioning optimally, so it can continue to deliver cleaner, clearer rainwater with lots of uses in and around your home or business.

AFTER EVERY RAINFALL EVENT

INSPECT	MAINTAIN	
Wet system pipes	Manually or automatically drain to prevent anaerobic fermentation (which occurs when leaves and other organic materials decompose in an oxygen-starved environment such as water-filled pipes); tannin leaching (where water turns brown and murky as tannins from leaves 'leach' into rainwater), and freezing during cold spells (especially in winter-rainfall areas).	<input type="checkbox"/>

EVERY 3 RAINFALL EVENTS

INSPECT	MAINTAIN	
First flush diverters with flow control washers	Remove and clean the outlet, filter screen and flow control washer to prevent blockages and ensure the unit empties after each rainfall event. First flush diverters are a critical component in any rainwater harvesting system. These devices divert and capture the most contaminated, sediment-laden water that washes into your pipes from your roof during the first initial millimetres of rain.	<input type="checkbox"/>

MONTHLY

INSPECT	MAINTAIN	
Bucket style rain heads	Remove leaves and debris from the catchment area and brush or hose off the screen to help prevent blockages and decomposing vegetation.	<input type="checkbox"/>
Enclosed rain heads	Remove leaves and debris from the cover and brush or hose off the screen to ensure optimal performance.	<input type="checkbox"/>
Screen filters	Screen filters keep out small debris and insects and help improve the quality of your water in your tank as they reduce the introduction of organic sediment. Keep them working optimally and ensure high water yields by regularly brushing or hosing them off.	<input type="checkbox"/>

EVERY 3 MONTHS

INSPECT	MAINTAIN	
Roof, gutters and gutter mesh	Clean and remove leaves and debris to preserve water quality and quantity; trim back overhanging branches and vegetation as required; consider installing gutter mesh for easier maintenance.	<input type="checkbox"/>
Rain heads with self-cleaning screens	Brush or hose off screen/s to remove any leaves or debris for optimal rainwater quality and quantity.	<input type="checkbox"/>
First flush diverters with advanced release valves	Remove and clean the advanced release valve to prevent blockages and ensure the unit continues to empty properly after each rainfall event; ensure the auto-release settings are still appropriate for your needs and preferences.	<input type="checkbox"/>
Tank inlet screens	Remove any leaves and debris and clean as needed to prevent water bounce and ensure higher water catchment; ensure there are no holes that mosquitoes could enter through; consider replacing with a screen filter for fine filtering, improved water catchment and easier maintenance.	<input type="checkbox"/>
Filter pits	Remove any leaves and debris and clean screens as needed to preserve water quality and quantity; ensure there are no holes that mosquitoes could enter through.	<input type="checkbox"/>

EVERY 6 MONTHS

INSPECT	MAINTAIN	
Tank overflow screens or flap valves	Clean as needed to ensure optimal functioning; ensure there are no holes that mosquitoes could enter through; ensure there are no obstructions blocking your tank outlets.	<input type="checkbox"/>
Water pumps and pump filters	Check and clean pump filters as required to preserve longevity and function; check the maintenance guidelines for your pump and perform any required maintenance.	<input type="checkbox"/>
Water filters	Inspect filter components and replace cartridges as necessary.	<input type="checkbox"/>

ANNUALLY

INSPECT	MAINTAIN	
Air gaps or back-flow prevention	Hose or brush off screens as needed; test to ensure backflow prevention is working.	<input type="checkbox"/>
Stored rainwater	Complete water quality testing using appropriate testing processes.	<input type="checkbox"/>

EVERY 2 YEARS

INSPECT	MAINTAIN	
Rainwater tank	Remove accumulated sediment and/or sludge from the base of the tank for improved water quality; repair any cracks, holes or gaps.	<input type="checkbox"/>

At the UPP Group, we consult and provide innovative solutions to market using current technology, and through educating and empowering licensed plumbing technicians. We are all about revolutionizing and transforming the way South Africa does plumbing – from training to service.