

Country Walk: Additional Water Storage Specification

There are 3 ways that additional Water Storage can be implemented by the owner of each unit in the Country Walk scheme.

1. Rainwater Harvesting

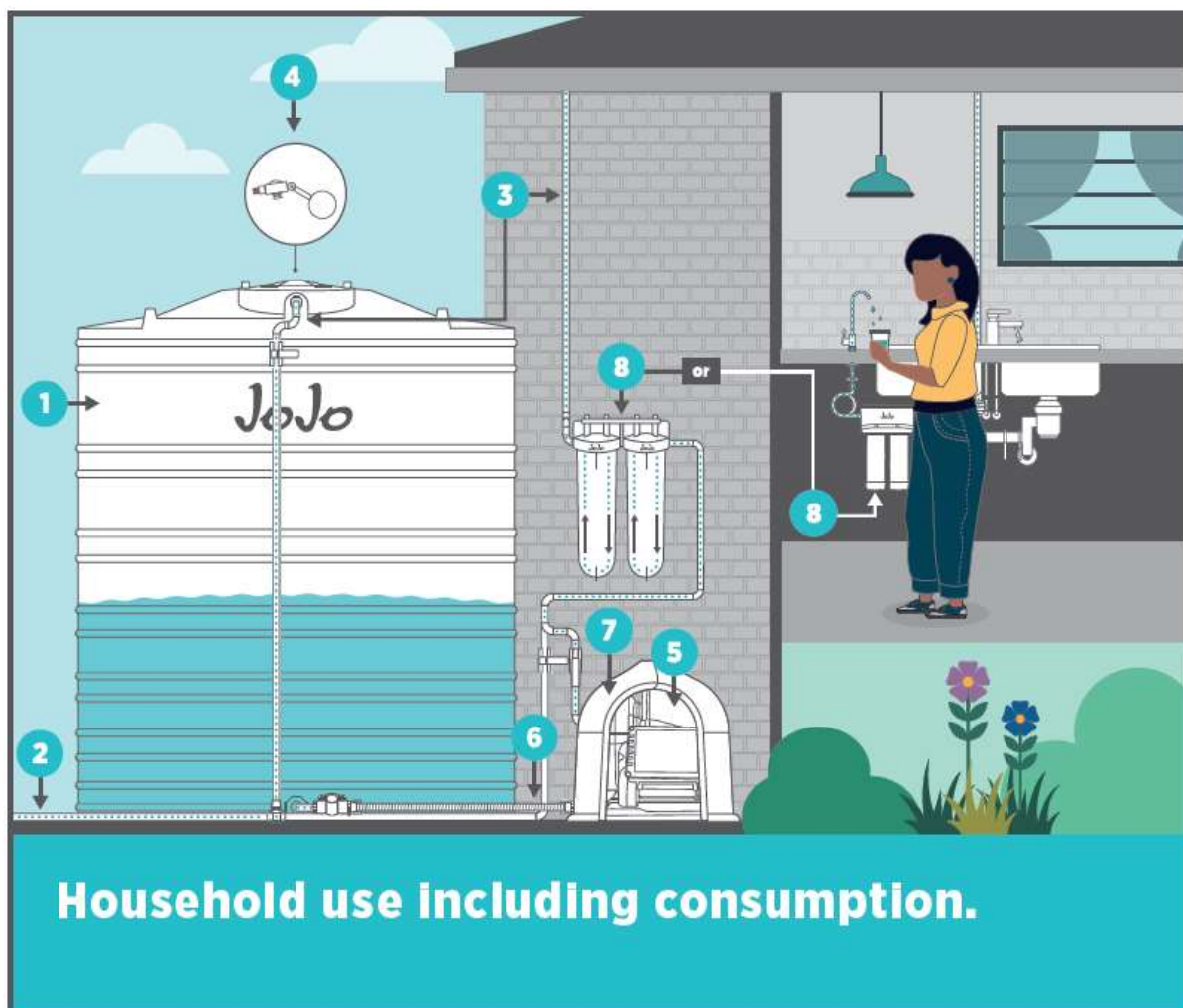
A Rainwater Harvesting Solution consists of a tank that accumulates water whenever it rains. It requires the installation of a pre-filtration solution, as well as suitable guttering and piping to transport the rainwater to the tank. Simple to install, its advantages include self-sufficiency and the convenience of not being dependent on regulated water resources.



1	Tank	2	Base	3	Gutters & Pipes
4	Pre-Filtration	5	Mozzie Screen	6	Pump
7	Pump-to-tank Connector Kit	8	Pump Cover	9	Whole-house Filter

2. Municipal Backup

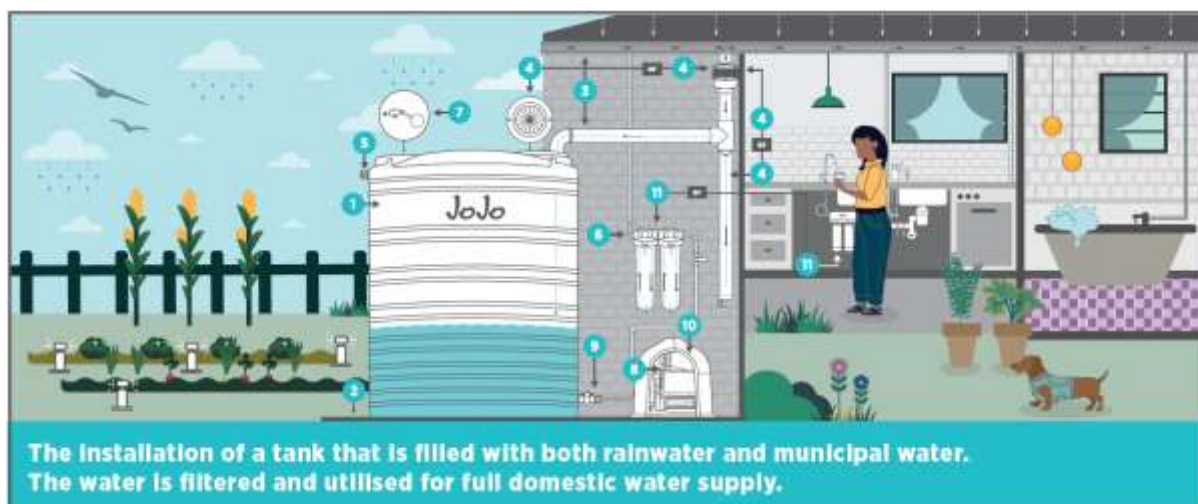
Our Municipal Backup Solution consists of a tank that is tied to the main water supply line and fills automatically when mains water is available. This water can then be utilised in the event of a water cut. It is an ideal solution, as it provides you with an uninterrupted, pressured water feed that is clean and safe for household use and consumption.



1	Tank	2	Base	3	Pipes & Elbows
4	Float Valve Kit	5	Pump	6	Pump-to-tank Connector Kit
7	Pump Cover	8	Countertop or Under Sink Filter or Whole-house Filter		

3. Fully Integrated

A combination of rainwater harvesting and municipal backup, our Fully Integrated System is the most sophisticated option in the range. The tank is filled with a pre-determined level of municipal water that serves as a permanent backup, while offering the added benefit of harvesting rainwater. The water is then filtered, sterilised, and utilised as a full domestic water supply.



1	Tank	2	Base	3	Gutters & Pipes
4	Pre-Filtration	5	Mozzie Screen	6	Pipes & Elbows
7	Float Valve Kit	8	Pump	9	Pump-to-tank Connector Kit
10	Pump Cover	11	Whole-house Filter		

Disclaimer: The safety and cleanness of the water supply is the responsibility of the owner. The correct filtration system is required to be installed, if the water is used for household use and drinking water. The body corporate will not be held accountable or responsible for water diseases caused by the additional water storage.

Owners must ensure that they fully comply with the following technical and statutory regulations with the additional water storage installation:

- Appropriate lightning / surge protection
- SANS-10142-1: The Wiring of Premises Low Voltage Installations
- Certificate of Compliance as per SANS 10254 (plumbing)

The specification to install additional water storage will include the water storage tank, water pressure pump, filtration system and additional plumbing.

1. Location of the Water Storage Solution

Due to aesthetics requirement from the Homeowners Association (HOA), the owner will be allowed to install the water storage tank in the courtyard of the unit. It is adjacent to the existing water supply and shut off valve.

If the unit does not have a courtyard, approval for location of installation is required to be obtained from the trustees along with an inspection.

2. Water Storage Tank

The owner is allowed to install a **Slimline JoJo** water storage tank, with **Cloudy Grey** as the allowed colour specification. The allowed water tank size is either the **750L** or **1000L**.

Description	750L Slimline	1000L Slimline
Water Capacity (L)	750	1000
Height (mm)	1850	2060
Diameter (mm)	760	840
Lid (mm) Clip-On	480	480
Colour	Cloudy Grey	
Suitable For	Water	Water



It is recommended that the additional water storage system has the option to be by passed, should any of the equipment become faulty.

For units that do not have a paved courtyard, a 1000mm x 1000mm x 100mm 20MPa concrete slab with 200mm x 200mm x 4mm reinforcing mesh is required to be casted before the water storage tank can be installed. Correct and adequate ground preparation is critical prior to casting the concrete slab. The ground should be compacted by means of a hand stamper or compactor rammer as indicated below.



Hand Compactor



Compactor Rammer

3. Water Pressure Pump

The owner is allowed to install either a variable-speed drive or a centrifugal pressure booster pump with a maximum of 3.2bar/320kPa, to ensure no leaks or burst pipes will occur in the unit.

Owners are advised to install a variable-speed drive booster pump instead of a centrifugal booster pump if they have or plan to install a solar PV panel energy system. A variable-speed drive booster pump has a soft-start function that eliminates the high start current observed with normal centrifugal booster pumps. A high start current will result in the solar systems battery banks, running down quicker.

Centrifugal Booster Pump	Variable-Speed Drive Booster Pump	Buster Pump with Additional Water Pressure Tank

The installation of the pump must be done by a certified electrician or certified plumber. An Electrical Certificate of Compliance must be issued after the installation and provided to Country Walk Body Corporate for insurance purposes.

4. Water Filtration System

There are currently four types of water filtration systems available on the market, namely:

- Countertop Filter
- Under sink Filter
- Inline Disruptor Filter
- Whole-house Filter

The following filter systems are installed inside the unit and as such, do not require approval from the Body Corporate:

- Countertop Filter
- Under sink Filter
- Inline Disruptor Filter

For the Whole-house Filter system, on the other hand, the owner of the unit will require pre-approval from the Body Corporate prior to installation. The Whole-House Filter system is normally installed outdoors and thus must be aesthetically pleasing and comply to the HOA and Country Walk rules.

If the Whole-house outdoor Filter system is selected, the owner will have the choice of the following configurations:

- Stage 2 Filtration
- Stage 3 Filtration without a UV light application
- Stage 3 Filtration with a UV light application or higher.

If the owner selects a Whole-house Filter system without a UV light, the owner should make use of a certified plumber to do the installation. If, however, the owner selects a Whole-house Filter system with a UV light, the owner can make use of a certified plumber and/or a certified electrician to do the installation. The UV Light requires additional electrical wiring. An Electrical Certificate must be issued after the installation together with the Certificate of Compliance and provided to the Body Corporate

Below are examples of the different stage filtration systems:



2 Stage Filtration



3 Stage Filtration



3 Stage Filtration with UV Light

5. Additional Plumbing

Additional plumbing pipes and fittings will be required. The minimum allowable requirement will be 6 bar/600kPa or classified as class 6 pipes and fittings to ensure that municipal pressure can be accommodated.

The following plumbing will be allowed:

Copper tubing with fittings



Grey UPVC tubing with fittings.

