

Caring for your UBI Aqua Mark II Water Treatment System: A Reference Guide for Homeowners

Thank you for purchasing a *UBI Aqua Mark II* 6000 Litre Water Treatment System.




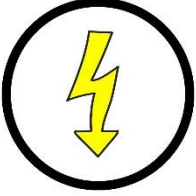

Please note: This tank is designed to cater for up to 8 equivalent people with a maximum of 1200ltrs per day.

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Safety Instructions

Please read the information provided.

	<p>PLEASE NOTE - Each State Government has regulations for Water Treatment System and they are required to be registered with your local council and comply with their required standards. The requirements may vary depending on your location, soil type and proximity to water ways.</p> <p>A Quarterly Maintenance report is required to be sent to council</p> <p>As a Water Treatment System owner you are responsible for ensuring your system is working properly and not posing a health risk to your family and the wider community.</p> <p>DO NOT Enter the SEWAGE TREATMENT PLANT. Risk of drowning or asphyxiation due to low oxygen environment is present. Ensure all access lids are closed securely after servicing and accessing the treatment plant to prevent unauthorized or accidental access</p>
	<p>PLEASE NOTE - Follow all safety precautions and accident prevention guidelines during installation, use, maintenance and repair of the UBI Aqua Water Treatment Plant. All local safety precautions and accident prevention guidelines established in the area should also be followed.</p>
	<p>The waste water contained in the UBI Aqua Water Treatment Plant may contain harmful bacteria. Persons coming in contact with waste water must immediately wash and disinfect all exposed areas. Contact your personal physician for all health concerns</p>
	<p>WARNING! All electrical work required must be carried out by a licensed electrical contractor or authorised service professional.</p>
	<p>SLIPPERY WHEN WET!</p> <p>When Maintenance is being undertaken by your certified contractor ensure children and animal are keep away from site. During cleaning, maintenance and repair work the surrounding area may become extremely slippery in some circumstances due to spilled water. Caution is to be taken when walking / standing near the UBI Aqua Water Treatment System when these activities are being conducted</p>

Owners are Responsible for:

1. Obtaining council approval for onsite sewage management system installation and operation.
2. Lodging an application for an Approval to Operate every three years and carrying out request by Council for inspections or maintenance if required by local council
3. Responding to Alarms by informing your service agent.
4. Ensure there is a maintenance contract is in place.
5. Ensuring the system is fully maintained.
6. Ensuring it is inspected regularly.
7. Respond to alarms and inform service agent.
8. Getting the system fixed promptly if it is not functioning efficiently.
9. Ensure the tank does not overflow.
10. Getting the tank de-sludged at regular intervals to ensure it does not become too full to process the flow going into it. (See F267 UBI Aqua MK11 Service Manual)
11. Ensure no chemicals or fuels enter the unit.

Caring for Your UBI Aqua Water Treatment System:

The accumulated solids in the bottom of the Water Treatment System should be pumped out every three to five years to prolong the life of your system. (See F267 Service Manual)

Water Treatment Systems must be maintained regularly to stay working.

Neglect or abuse of your system can cause it to fail. Failing systems can

- cause a serious health threat to your family and neighbours,
- degrade the environment, especially lakes, streams and groundwater,
- reduce the value of your property,
- be very expensive to repair,
- put thousands of water supply users at risk if you live in a public water supply watershed and fail to maintain your system.

Be alert to these warning signs of a failing system:

- sewage surfacing over the disposal area (especially after storms),
- sewage back-ups in the house,
- lush, green growth over the drain field,
- slow draining toilets or drains,
- sewage odours

Council Regulations and Requirements

1. Irrigation water must not be allowed to run off onto other properties.
2. All storm water and seepage from higher levels needs to be diverted around the disposal area.
3. The council must approve that the area is turfed and landscape to their standard.
4. In States where irrigation is permitted with a waste water system - Watering of fruit trees or vegetables grown on your property is prohibited using waste water. This water is not suitable for human nor animal consumption.
5. It is recommended that you only use the sprinklers provided with the system for your waste water irrigation, this is simply to prevent confusion as to which is waste water and which is rainwater or town water.

6. As the owner of the system you are responsible for the correct operation and maintenance and to conform to council requirements.
7. Quarterly reports is to be sent to council

Tips to Avoid Trouble

DO have your tank pumped out and system inspected every 3 to 5 years by a licensed water treatment contractor (listed in the yellow pages).

DO keep a record of pumping, inspections, and other maintenance. Use the back page of this brochure to record maintenance dates.

DO practice water conservation. Repair dripping taps and leaking toilets, run washing machines and dishwashers only when full, avoid long showers, and use water-saving features in taps, shower heads and toilets.

DO have a sink strainer to prevent food particles moving into the system and slowing down the process.

DO learn the location of your *UBI Aqua Mark II* Water Treatment System. Keep a sketch of it handy for service visits. If your system has a flow diversion valve, learn its location, and turn it once a year. Flow diverters can add many years to the life of your system.

DO divert roof water and surface water from driveways and hillsides away from your *UBI Aqua Mark II* Water Treatment System. Keep sump pumps and house footing drains away from your *UBI Aqua* Water Treatment System as well.

DO use 'Septic Safe' cleaning aids.

DO take leftover hazardous household chemicals to your approved hazardous waste collection centre for disposal. Use bleach, disinfectants, and drain and toilet bowl cleaners sparingly and in accordance with product labels.

DON'T Turn your system off.

DON'T make or allow repairs to your *UBI Aqua Mark II* Water Treatment System without obtaining the required health department permit. Use professional licensed contractors when needed.

DON'T use commercial Water Treatment System Additives. These products usually do not help and some may hurt your system in the long run. The only exception is quality enzyme based cleaning products. These can improve the soil condition particularly in a clay base soil and may break down some fats. **However** it will NOT improve the function of the Water Treatment System itself.

DON'T allow anyone to drive or park over any part of the system. The area over the drain field should be left undisturbed with only a mowed grass cover. Roots from nearby trees or shrubs may clog and damage your drain lines.

DON'T store or stack anything on tank or drain field.

DON'T pour oils and fats down the sink they can solidify and may block the system. Instead, put them into a container such as a milk carton and throw out with the rubbish.

DON'T use a garbage disposal unit – no food products should be disposed of in the *UBI Aqua* waste Water Treatment System.

DON'T use your toilet as a trash can by dumping non de-gradable products down your toilet or drains. Also, don't poison your *UBI Aqua* water treatment system and the groundwater by pouring harmful chemicals down the drain. They can kill the beneficial bacteria that treat your wastewater. Keep the following materials out of your system:

NON DE-GRADABLES:

Grease, disposable diapers, plastics, cat litter, cloth wipes, cotton buds, etc.

POISONS:

Grease, gasoline, oil, paint, paint thinner, pesticides, antifreeze, etc.

UBI Aqua Mark II Water Treatment System Explained

Water Treatment systems are individual wastewater treatment systems that use the soil to treat small wastewater flows, usually from individual homes. They are typically used in rural or large lot settings where centralized sewage treatment is impractical.

Please be aware that when you contract a contractor to de-sludge your tank, a volume of water must be in the tank to ensure the tank “does not float”. Bacteria levels in the tank will be restored as soon as wastewater enters the system again.

UBI Aqua Mark II Water Treatment System

Global 's *UBI Aqua* Mark II Water Treatment System consists of a tank with 4 chambers. A Primary aeration chamber, settling chamber and a pump out chamber. These are all contained in the main tank (6000L)

Your *UBI Aqua* Mark II water treatment system treats your household wastewater by temporarily holding it in the water treatment tank where heavy solids and lighter scum are allowed to separate from the wastewater. The first compartment is a settling chamber where solids and liquids separate and some anaerobic digestion occurs. From here, the effluent passes through the aeration chamber where a pump supplying a constant flow of air is used to oxygenate the water, creating optimum conditions for the decomposition of organic compounds. The third compartment allows further removal of particulate matter and disinfection before the effluent leaves the unit. After spending time in the chlorination / disinfection chamber, the treated effluent is pumped through irrigation lines to the disposal area as per required design.

This effluent then slowly seeps into the subsurface soil where it is further treated.

A properly functioning water treatment system does not pollute the groundwater.

Ideas For Landscaping And Irrigation

How the area around a *UBI Aqua* water treatment system is managed is just as important as how the system itself is maintained. Planning and planting the right kind of vegetation can help keep the system in tip top condition.

When choosing what to plant, consider which plants will do best in the local soil type.

Also, considering which ones can cope best with regular daily doses of nutrient-rich wastewater.

These plants must be able to cope with compounds such as sodium, chloride, nitrogen and phosphorous. Many Australian natives can't cope with high levels of these nutrients.

Check List for System Health

Is Your System Healthy?

CLUES

- No odours outside the house.
- Toilet flushes easily and quickly.
- Water goes quickly down drains.
- Tank has been pumped out in the past five years.
- Tank has been checked in the past three months.
- Tank is regularly serviced.
- No rampant weed growth downhill of the irrigation area.

Is Your System Unhealthy?

CLUES

- The air around it smells – usually like rotten egg gas
- The ground is damp or soggy downhill of the irrigation field
- There is lots of dark green grass growing around the irrigation area
- The toilets are slow to clear, or keep backing up and overflowing
- There are lots of weeds growing down slope of the irrigation area.

Periods of Non Operation

In the event that you are away and your home is not occupied during this period there are no precaution required and your *UBI Aqua* system will continue to function for up to three months. However if you are likely to be away and your home un occupied for longer please contact your service provider or installer so a service of your *UBI Aqua* water treatment system can be undertaken to ensure the system continues to function correctly..

For More Information

For more information about maintenance or inspection of your *UBI Aqua Mark II* water treatment system, contact [your local Council](#) or [UBI Aqua Mark II service agent in your area](#).

Alarms and Potential Problems

Possible Cause	Remedy
Low Air Pressure	
New System Low water level	Turn on tap until system fills to normal working level
High Water Level	
New System Fill Up before switched on	Level will drop over time as the power is switched on
Blocked irrigation hose	Investigate and clear blockage – check for blocked sprays.
Kinked irrigation hose	Unkink hose
If turf vales are used	Check that the key is locked in position
Pump not working	Check that the pump is plugged in and that there is power to the system.
Excessive Foaming	
Use of excess of non recommended detergents	Use recommended detergents

Servicing Arrangements

Your *UBI Aqua Mark II system* Water Treatment System required regular service and maintenance inspections. This will be carried out by your certified technician who has undertaken the installation for the first 12 months at your costs.

A record sheet will be completed by the technician at the time of service and a copy provided to you for your record. A copy will be sent to your local council and a copy kept by the technician.

These inspections will include the following

1. General inspection of tank area, irrigation and drainage.
2. Inspection of electrical equipment including, irrigation pump, aeration pump, warning lights and connections.
3. Inspection of the Air system including venturi / sludge return, air pump and diffuser.
4. Inspection of holding well and water treatment tank including testing water samples.
Operating desludging unit, resetting air control and operating submersible switch.
Checking bio mass growth, checking sludge levels.
5. Inspection of irrigation including lines, outlets and jets
6. Chlorine Supply replenished.

Between 3-9 years the water treatment system will need to be pumped out this needs to be organised by the owners and a registered company of your choice. This is at cost to the owner of the water treatment system. (See F267 Service Manual for Details)

When your service providers pumps you tank out they **MUST** firstly pump the main chamber out and then the 2 remaining chambers.

When filling the tank all chambers **MUST** be filled evenly.

Customer Maintenance Record

CONTACT	SYSTEM	COMMENTS
INSPECTION		
Date:		
TANK DESLUDGE		
DATE :		
REPAIRS		
DATE:		
APPROVAL TO OPERATE		
DATE:		

See F267 UBI Aqua Mark II Quarterly Maintenance Record.