

FAQ – Aquonic 1000L

How many users does one unit serve?

The amount of wastewater generated by a user varies depending on the context, user behavior and cultural factors. Therefore we don't state a fixed number of users served per unit for our product. One Aquonic wastewater treatment tank can treat up to 1500L of blackwater (or mixed black and greywater) per day. Multiple Aquonic tanks can be used in parallel to increase the treatment capacity to 3000L, 4500L, 6000L...etc.

How much electricity does the system require? And can it work with solar power?

An Aquonic wastewater treatment tank uses around 6kWh of electricity per day. The essential energy requirements of the system are 2 x 180W submerged water pumps and a wastewater feed pump from a septic tank. Aquonic systems have been widely installed with solar power solutions, especially in remote areas where there is no power grid supply or in locations where a self-sustaining, low-impact solution is required.

How often do you need to change the filter membranes?

The Aquonic wastewater treatment tank is a biological based system that doesn't utilize typical wastewater membrane filters found in other treatment systems. In the Aquonic tank there are two types of media, a plastic media and a bio-media that support the biological processes. The bio-media needs to be routinely cleaned by water hose every 4-6 months by a trained worker.

Can the treated water be consumed as drinking water?

Wastewater is treated to clean, pathogen-free ISO 30500 non-sewered sanitation systems standard. The treated water quality is similar in look and feel to tap water but we only recommend reusing the water for non-potable applications such as flushing toilets, landscape irrigation or car washing.

Can the system be used with an existing STP or septic tank?

The concept behind the Aquonic wastewater treatment tank is to upgrade and improve septage water. A septic tank is an essential element of the Aquonic system setup and installation design. An Aquonic tank works in conjunction with a septic tank as the pretreatment and waste separation mechanism.

What is the water quality after treatment?

Wastewater is treated to clean, pathogen-free ISO 30500 non-sewered sanitation systems standard. Expected results are BOD less than 10mg/L, COD less than 30mg/L, TSS less than 15mg/L and TKN less than 50mg/L. For particular wastewater quality standards of a specific country, we can adapt and adjust the system as required.