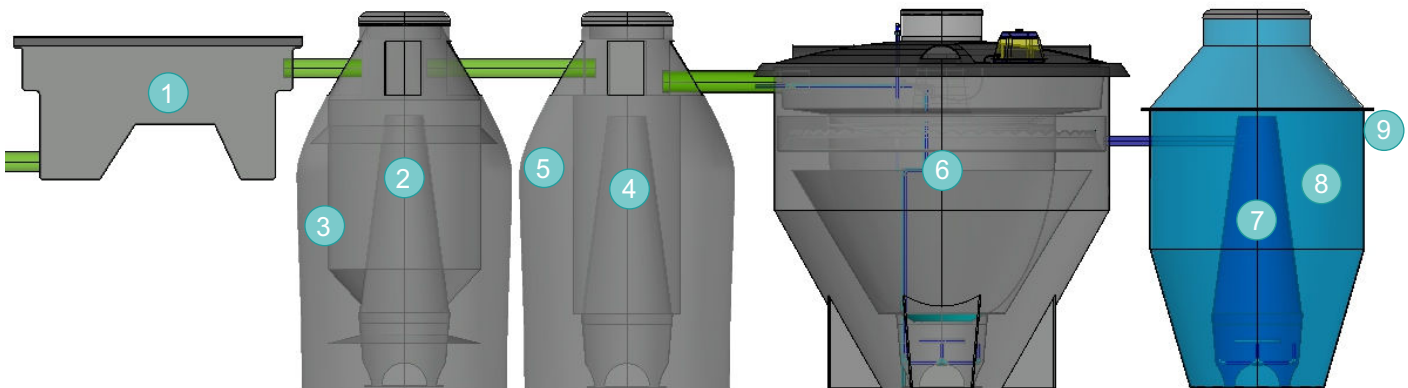




KyBo - FRBR (Patented) Designed, Developed and Manufactured in Africa for Africa

Purpose:

To efficiently transform wastewater into safe potable / non potable water for re use eg. flushing toilets, selected crop irrigation, hard surface cleaning, dust suppression or topping up swimming pool, washing of clothes etc.



How it works:

Special Standards System

- 1 **Collection Pre Strainer Screen:**
 - Domestic sewage enters the plant through a screen tank where grit and large non bio degradable debris are removed to prevent damage or blockage within the system.
- 2 **Anoxic Baffled Reactor:**
 - Domestic sewage enters the anoxic baffled reactor where the sewage is forced to flow up and down between chambers maximizing sludge breakdown before entering primary settlement where light materials, fats, oils and grease floats to the top allowing the cleaner effluent to flow into the secondary settlement tank.
- 3 **Primary Settlement:**
 - Allows for extended retention time and settling of finer particles before entering the preliminary bio reactor where the effluent is introduced to aerobic micro organisms as pretreatment buffer zone responsible for breakdown of pollutants.
- 4 **Secondary Settlement**
 - Allows for extended retention time and settling of finer particles before entering the preliminary bio reactor where the effluent is introduced to aerobic micro organisms as pretreatment buffer zone responsible for breakdown of pollutants.
- 5 **Preliminary BioReactor:**
 - Allows for extended retention time and settling of finer particles before entering the preliminary bio reactor where the effluent is introduced to aerobic micro organisms as pretreatment buffer zone responsible for breakdown of pollutants.
- 6 **Fluidized Rotational Bio Reactor (FRBR): Patented**
 - With the use of a low energy air pump and micro bubble diffuser to create ideal aerobic conditions using dynamic rotational fluid movement. The patented no clogging media supports a self cleaning cycle, providing an optimal environment for aerobic bacteria to thrive and consume organic compounds.
- 7 **Final Disinfection**
 - The treated effluent enters the ozone contact chamber eliminating harmful micro pathogenic bacteria, making it safe for re-use. Ozone is preferred for disinfection as it leaves no harmful residues. Though other methods are available on request.
- 8 **Final Settlement:**
 - Allows extended settling time of ultra fine dissolved solids prior to being pumped to storage tank for reuse
- 9 **Reuse of processed water**
 - Processed effluent can be automatically pumped into a storage tank for re-use or further processing depending on final use.

KyBo scalable solution from
 4 to 1500 people