



Maskam Water sold the first Clarus Fusion On-site Waste Water Treatment Plant in Africa in 2010. Since then we have sold and installed these systems in 9 countries on the African Continent.

The Clarus Fusion has proved to be a reliable, easy to install and easy to operate WWTP. In most installations, the treated effluent is being re-used on site, saving the customer water and saving money.

Water security is no longer a given. We all have to work together to save water where we can. Re-using is one of the most sustainable and most affordable ways of saving. It pays for itself!



Clarus Fusion On-site Waste Water Treatment Plant

The Clarus Fusion is a factory-built activated sludge waste water treatment plant.

It follows the exact same treatment process as municipal activated sludge plants, including denitrification and phosphate reduction.

It is **NOT** a typical package plant.

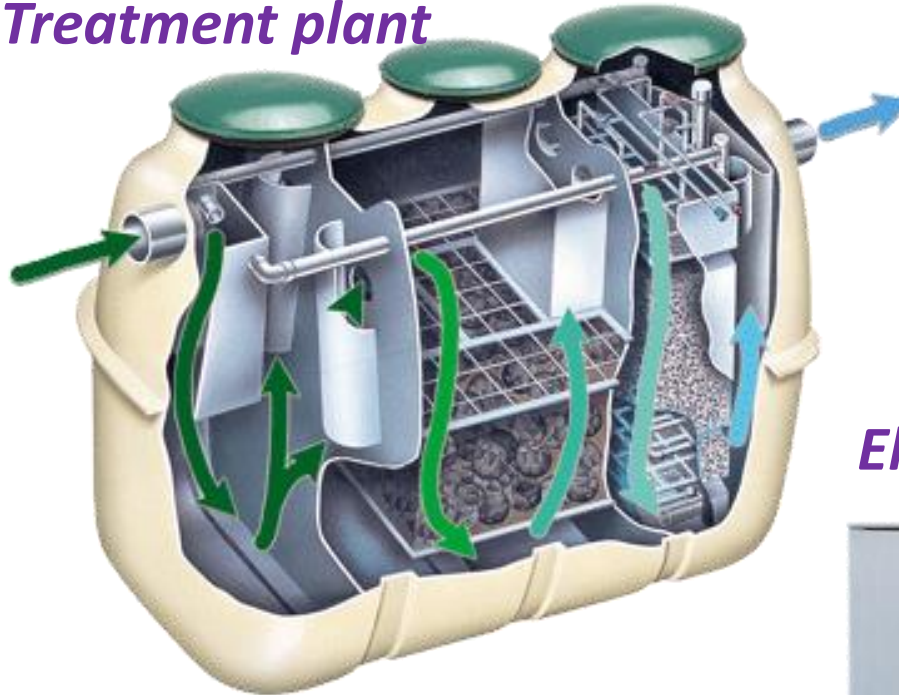




The Fusion System

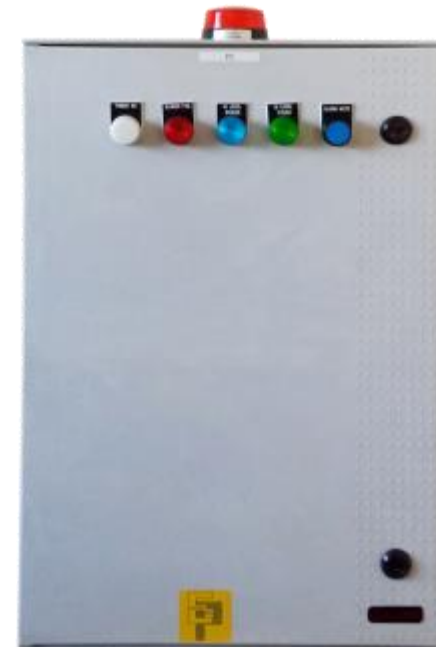


Treatment plant



Diaphragm air pump

Electrical Panel



- Treat sewage from as little as 60 watts
- Solar options available.
- Different models available, from 1 person to small communities
- NO pumps in the system
- No electricity in the tank – only float switch
- Only Non-corrosive material used in tank
- No metal in tank
- Tank installation is completely underground

Disinfection

- Treated effluent from the plant needs to be disinfected to kill e-coli, faecal coliforms and other harmful bacteria
- UV, Ozone or chlorine can be used for disinfection



Heritage Sites – Cango Caves



Heritage Sites – Cango Caves



- On-site treatment is a game changer in the economy, especially now (given the drought that seems to be never ending).
- There can be more jobs created in manufacturing, selling, installation and maintenance of these kinds of systems.
- **The bigger advantage is for the communities, though.** They have the benefit of the water for generations to come. That can sustain small scale farming, sports facilities, etc, etc.
- Businesses can remain open because there will be water for toilet flushing. Garden services may continue because there is water for irrigation.
- (Remember many of the smaller towns don't have piped sewage, others have evaporation ponds so all of that water goes to waste.)
- We need to look at this more inclusively. **If we look at one fraction – the plant – only, we miss the bigger picture.**



We can Help!



- Energy efficient water pumps
- Energy efficient pond pumps
- Booster sets
- Effluent pumps
- Dewatering pumps
- Sewage pumps
- Lifting Stations
- UV for water disinfection – pool, household, commercial
- UV for air disinfection
- Grey Water Systems
- Rain water harvesting
- On-site waste water treatment
- **Saving water through on-site recycling**
- **Designing water wise buildings**