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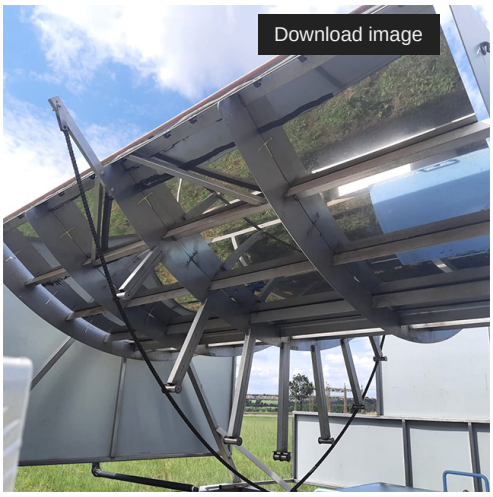
Solar Water Purification System



We all know that stainless steel is a sustainable material that meets expectations of those inventions created to help us live more eco-friendly lifes. The Solar Water Purification System C2 Fresh Water (patent pending) is a good example of it. The demand for clean potable water is being challenged by the crisis of water shortage and South Africa is no exception to this phenomenon. It is within this context that C2 Fresh Water, designed and created by the late Mr Pat Pik specialist in water purification processes, comes up.

C 2 Fresh Water is an innovative invention designed to transform seawater and polluted natural and processed water to clean and safe potable water. The mechanism used for the purification process gives the system its unique features, without the need for additional filters. Impure water is fed into the system and heated through a series of specialised equipment until its boiling point. The resultant steam is then condensed to produce clean, fresh water. Once this water is cool enough for further processing, it is then treated with ozone gas to ensure that no bacteria can grow, making it suitable for drinking.

Stainless steel is the main material of construction. The reflective parabolic troughs are made using bright-annealed ferritic stainless steel grade 430. The support structures are manufactured from the weather-resistant and durable grade 3CR12. In addition, the clean water storage tank can be made of austenitic grades 304 and 316. The advantage of stainless steel is that offers the structure durability and requires very low maintenance. The construction using recycled and recyclable materials coupled with the use of clean energy makes this product a sustainable product of the future.

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