The Way RO Reverse Osmosis Systems Work by Jamesarmstrong2011

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Clean water is every humanâ€™s right to have, yet today it seems more like a privilege to even have access to it. Unfortunately not everyone has easy access to clean potable water. Itâ€™s truly heartbreaking how many people in this world go without pure drinking water, and not by choice. Unless you live in a first world country where intricate systems have been put into place for safe and secure water distribution services, you may not have the proper resources to access clean healthy potable water for consumption and everyday use. Many of those who go without are forced to drink dirty unhealthy water. This exposes them to harmful water borne illnesses that cause extreme sickness and even death.

With clean drinking water becoming scarce in many regions of the world, specifically third world and desert communities, reverse osmosis RO water treatment systems are becoming more and more popular in the pursuit of clean water. These systems take unhealthy, brackish, dirty water and turn it into potable drinking water suitable for human consumption and everyday use. Many countries are coming to recognize the benefits of having such units to clean their water.

The way RO reverse osmosis systems work: Water pressure is used to force water molecules through a very fine membrane leaving the contaminants behind. Purified water is collected from the permeate side of the membrane, and water containing the concentrated contaminants, i.e. iron, chlorine, mud, etc. is flushed down the drain from the concentrate side. The average reverse osmosis system is a unit consisting of a multimedia and activated carbon pre filter, a softener with brine tank, the reverse-osmosis unit with semi-permeable membranes, and a UV sterilizer post treatment; the UV is especially important if the water is to be stored for an extended period of time. This is done so that it does not spoil and breed bacteria. Then all the effort it took to process the water would have been in vain. Of course there are variations in pre and post treatment depending on the size of the system, capacity and application it is needed for.

Reverse osmosis removes salt and most other inorganic material present in the water, and for that reason, reverse osmosis lends itself to use in places where the drinking water is brackish, contains nitrates or other dissolved minerals which are difficult to remove by other methods.

We have to remember that water is our most precious resource. It is what gives this plant and every living thing existing on it life. Itâ€™s for that reason that we need to protect it and preserve it at all costs. This is why reverse osmosis RO is such an important engineering and technological accomplishment. Building systems such as these can potentially save countless lives in the pursuit of clean water. This is why having a quality water system makes a difference. So do Mother Nature a favor and help keep her water clean, this way future generations can enjoy all she has to offer.

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