

The Important Differences Between Reverse Osmosis & Distillation

Information on Your Water Options Regarding Your Health



The forgotten Stage!

The one component of both processes that is woefully overlooked is the prefiltration stage(s) that come before the distillation process or the reverse osmosis membrane stage. This prefiltration stage is where the majority of the heavy toxins are supposed to be removed from the water and where the highest quality of filtration media is needed.

The trouble is - this is where nearly all companies try to go cheap, especially with RO. If you purchase a new RO System at a big box store, the prefilter are of the lowest quality possible and will not come close to performing as labeled. A well designed prefilter stage by itself should produce high quality drinkable mineral water, if not, you're wasting your time and money.

For instance, the carbon block stage on these low-end prefiltrations are rated for chlorine and *not* chloramine; even though they are rated at say 2500 gallons for chlorine, they will only remove chloramine from about 500 gallons of water, and even less removal for VOCs and THMs (and that's being generous).

The prefilter should be designed with at least 3 to 1 headroom so that the filter changes always outrun the performance. With water there is no substitute for quality components and the proper knowledge for their use.

NATURAL H₂O SYSTEMS



So...Is it working or not? Good Question!

With a distiller it's an ON or OFF proposition. So, with a high quality prefilter in place - if a distiller is 'TURNED ON' (making water) its working at 100% effectiveness all the time. The reason for this is that the distillation process is not effected by any outside water variables. It's just the opposite with an RO. A RO systems performance is dependent on many variables - water pressure, water Ph, water temperature, water hardness, TDS (total dissolved solids) and of course prefilter quality.

I have installed 3 of the exact same brand RO systems on the same street in the same town and they all performed at different levels. To help overcome these variables the cost for a POU RO system can run from \$950-\$1500 and the prefilters need to be changed every 90-120 days. Even at that, there are still fluctuations that effect performance. NOTE: when you read the removal specification for a RO system what you are really reading are the removal rates at optimum LAB variables (a controlled environment) - the best water pressure, perfect Ph, perfect hardness, etc. Of course, perfect variables only exist in a LAB - not at your kitchen sink. The Distillation process always tests at the same quality 99.999% of the time.



As a water filtration consultant for 30 years I am often asked which of these waters is best, RO or Distilled. That is a very general question but there are details that will clear up the confusion. This is not a sales pitch, I simply want people to have the facts facts and be honestly informed.

Distillation and RO water processing systems produce similar types of water, but they are far from being the same. They both strip metals, minerals and a degree of toxins from the water, but it's the consistency, certainty and efficiency that are the keys regarding their differences and true quality.

Please feel free to contact me directly with any questions at 877-214.1482 ... Jeff Judd