



...More on FO

Forward Osmosis is a new membrane filtration technology that works similar to the way trees draw water from damp soil or people absorb the water they drink.

HTI's membrane filter separates water molecules from nearly any liquid. The membrane works like a very fine, tight sieve allowing water molecules to pass through and blocking larger molecules such as salts, proteins, viruses, bacteria, and parasites.

Forward Osmosis (FO) is an equilibrium process. Two liquids are separated by a membrane that only allows water to pass. Water passes from one chamber to the next by diffusion until the solids concentration on both sides of the membrane are equal.

Forward Osmosis membranes reject organics, minerals and other solids; similar to Reverse Osmosis but instead of applying high pressure to squeeze water from a solution, FO uses a solution with high osmotic potential to draw water through the membrane from a solution of low osmotic potential.

Forward Osmosis technology can be applied to various industries including:

- Oil & Gas Exploration
- Landfills
- Food Processing
- Nuclear Waster Water
- Algae Biofuels
- Chlor-Alkali
- Methane Digesters
- Membrane Bio Reactor