

Ultrafiltration (UF)

Ultrafiltration (UF) is a membrane treatment process that uses pressure to force water against a semi-permeable membrane, filtering out bacteria, viruses, oils, organic chemicals and suspended solids, while allowing water and dissolved salts to pass through.

In essence, it is fundamentally similar to microfiltration, nanofiltration and reverse osmosis, except that it differs in the membrane pore size. Typical pore sizes are in the range of 0.15 to 0.2 microns.

UF systems automatically back wash to remove the filtered layer from the membrane and reduce pressure drop.

UF is used for residential water treatment to achieve high water purification without the need to install a Reverse Osmosis system. Unlike RO, UF systems do not generate a lot of reject water and they retain dissolved minerals, making water palatable for drinking.



Ultrafiltration membrane fibres