

# MEMBRANE

## OVERVIEW

Membrane is one of the most advanced filtration system that screens out suspended solids, hardness, and ion elements contained in the influent water to meet the required water quality. Since membranes became more popular, it is less expensive. Therefore, it overcame the only shortcoming of using the membrane system.

## FEAUTRES

- Maintaining stable effluent water quality at all times
- Requiring minimum land space
- Producing high quality water

## DIFFERENT TYPE OF MEMBRANE

### 1) Micro filtration (MF) :

Removes particles larger than  $0.08-2 \mu\text{m}$  such as residual suspended solids and bacteria as a pre-treatment step for more advanced treatment system.



### 2) Ultra filtration (UF) :

Removes particles larger than  $0.005-2 \mu\text{m}$  such as dissolved compounds with high molecular weight such as proteins and carbohydrates.



### 3) Reverse Osmosis (RO) :

Removes ions and dissolved constituents from wastewater remaining from the advanced water treatment system.

