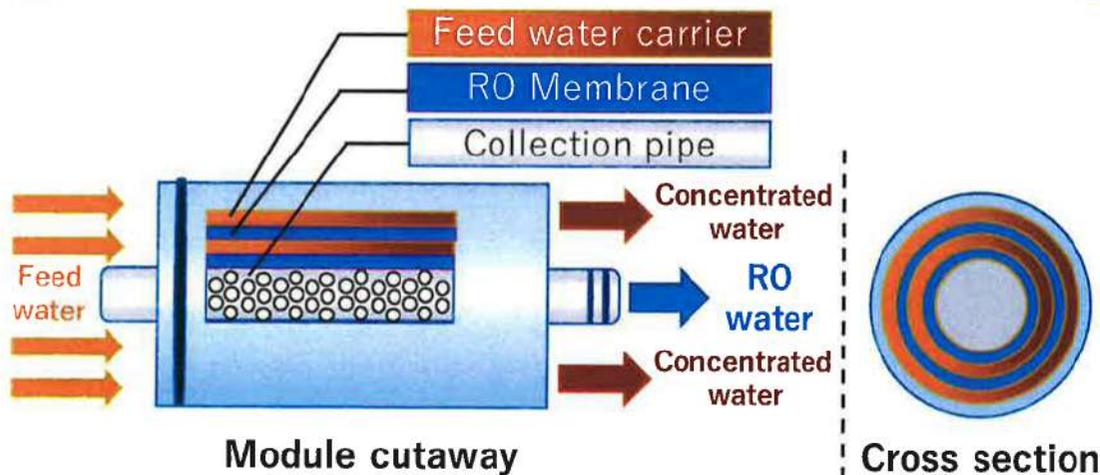


RO Membrane (Reverse Osmosis Membrane)

● Explanation

- RO membrane is made with multiple layers of semipermeable membrane wound on a spiral.
 - The mechanism is to separate ions, dissolved organic matter and fine particles from raw water by reverse osmosis which produced by applying high pressure beyond the difference in osmotic pressure to the concentrated side separated by a semipermeable membrane.
 - More than 90 ~ 99% of inorganic substances and 100% of organic substances can be removed (*1)
- *1 : Currently, the smallest virus size is about 0.002 microns, so it is safe to assume that all pathogens and viruses can be removed

● Structure



● Example : RO membrane water purification capacity

Item	Feed water (Factory wastewater)		Treated water (RO water)
Water temperature	15~30°C	→	15~30°C
PH	7.4	→	5.5~8.0
Ammoniacal nitrogen	7.0mg/L	→	<0.5mg/L
TDS	620mg/L	→	<3.0mg/L
Turbidity	<1 NTU	→	<0.2 NTU

