

Reverse Osmosis (RO) is a filtration method that removes many types of large molecules and ions from the water supply including bacteria, pollen and chemicals. RO systems use a membrane under pressure to separate relatively pure water from a less pure solution. The unwanted material remains on the pressurized side of the membrane while the pure water is allowed to pass through to the other side. This pure water is used to create the fogging mist.



The membranes in MicroCool's RO systems remove materials down to 0.0001 microns in size (as shown in chart below). Without RO, these water-borne minerals and impurities can build up and prevent the efficient flow of water through the atomizing nozzles which can cause annoying dripping or leave behind unsightly white calcium residue.

MicroCool's membranes include pre-filters and anti-scale systems engineered to prolong membrane life. Typically, water with TDS (total dissolved solids) of 550 ppm or more are reduced to an acceptable level of 5-20 ppm as a result of the RO process.

Operation of the RO system is automatic with no manual input required. Water quality monitoring is easily accessed through conveniently located gauges on MicroCool pumps and filter replacement is straightforward.

- Remove Bacteria, Pollen, Chemicals
- Optimize Nozzle Efficiency
- Automatic Operation



World leaders in fog and mist technology for cooling, humidification, air quality control



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MICRON	0.0001	0.001	0.01	0.1	1.0	10	100	100
AMSTONG	1.0	10	100	1,000	10,000	100,000	1,000,000	10,000,000
MOLECULAR WEIGHT	100	200	20,000	200,000	500,000			
EXAMPLES	--- METAL IONS ---		--AQUEOUS SALTS--		--- COLLOIDS ---		---VIRUSES---	
				----- BACTERIA -----		---- POLLENS ----		---BEACH SAND---
FILTRATION TECHNOLOGY					PARTICLE FILTRATION			
				MICRO FILTRATION				
			ULTRA FILTRATION					
		NANO FILTRATION						
	REVERSE OSMOSIS							