

# Water Filter's RO UNIT

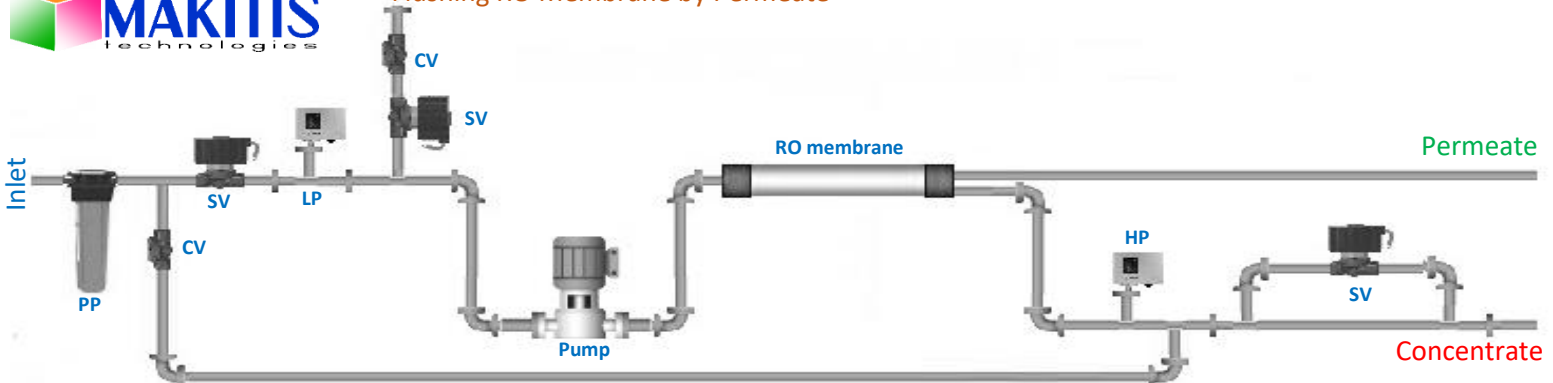
MAKITIS's RO Unit are the process that is used to remove a wide range of salts, dissolved organics, bacteria, macromolecular organics and particles silt to give water of a high purity. RO Unit must be supplied with softened, de-chlorinated water. A duplex softener is recommended for continuous operation. Utilising softened water for the feed to the RO will reduce the scaling potential on the membrane and therefore lengthen it. Dechlorination of the feed will reduce oxidation damage to the surface of the membrane.



Model	MK-RO8-2QH-3Ph	MK-RO8-3QH-3Ph	MK-RO8-2QHC-3Ph	MK-RO8-3QHC-3Ph	
Electrical Current (V)	380				
CIP in System (PE Size) / Pump	NO CIP		CIP (200L) / GIG BLC120/110T (1.1Kw)		
Capacity	liter/hrs.	2,000	3,000	2,000	3,000
	m <sup>3</sup> /day	48	72	48	72
Frame Material	SUS 304				
Vessel Material	FRP				
Max Pressure Vessel / Vessel	300 PSI				
Sediment Filter (pcs)	PP 20"BB (2)	PP 20" (3)	PP 20"BB (2)	PP 20" (3)	
RO membrane (pcs)	Fujitec GN8040 (2)	Fujitec GN8040 (3)	Fujitec GN8040 (2)	Fujitec GN8040 (3)	
Multistage Centrifugal Pump (Voltage/Frequency)	GIG CV4-22T, 4.0 KW (380V/50Hz)				
Pressure Switch (pcs)	High (1), Low (1)				
Solenoid Valve (pcs)	1" 220V/50Hz (3)				
Pipe line	UPVC 1"				
Inlet Water's pipe connect	Male UPVC 1 1/2"		Male UPVC 2"		
Inlet Water's Flushing RO membrane	Female UPVC 1"				
Outlet's pipe	Permeate	Female UPVC 1"			
	Concentrate	Female UPVC 1"			
Flow Meter	Permeate (pcs)	4-60 LPM / 2-16 GPM (1)			
	Concentrate (pcs)	4-60 LPM / 2-16 GPM (1)			
	Recycle (pcs)	4-60 LPM / 2-16 GPM (1)			
Pressure Gauge (pcs)	Cartridge Filter In (1), Cartridge Filter Out (1), Inlet Membrane (1), Outlet Membrane (1)				
Consumer Unit	Breaker, Timer, Relay, Overload, Fuse, Magnetic contactor, Switch OFF/ ON, Full tank /Alarm				



Flushing RO Membrane by Permeate



## Suggested Inlet Water Conditions

Max. Feed Silt Density Index (SDI) :	5	Free Chlorine Tolerance :	< 0.1 ppm	Turbidity :	< 1 NTU
Inlet water Pressure :	2-3 Bar	TDS :	< 1000 ppm	Iron :	< 0.05 ppm