

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 ³ /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" (5)	PP 20"BB (2)	PP 20" (5)
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 pipe connect		Male UPVC 1 1/2"	Male UPVC 2"	Male UPVC 1 1/2"	Male UPVC 2"
Inlet Flushing RO membrane		Female UPVC 1"			
Outlet's pipe	Permeate	Female UPVC 1"			
	Concentrate	Female UPVC 1"			
Flow Meter	Permeate (pcs)	4-60LPM/2-16GPM (1)	20-130LPM/5-35GPM(1)	4-60LPM/2-16GPM (1)	20-130LPM/5-35GPM(1)
	Concentrate (pcs)	4-60LPM/2-16GPM (1)	20-130LPM/5-35GPM(1)	4-60LPM/2-16GPM (1)	20-130LPM/5-35GPM(1)
	Recycle (pcs)	4-60LPM/2-16GPM (1)	20-130LPM/5-35GPM(1)	4-60LPM/2-16GPM (1)	20-130LPM/5-35GPM(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
Inlet water Pressure : 2 -3 Bar

Free Chlorine Tolerance : < 0.1 ppm
TDS : < 1000 ppm

Turbidity : < 1 NTU
Iron : < 0.05 ppm