



Clean Water Tech Pte Ltd, 41, Sungei Kadut Loop, S 729509, Singapore  
 Tel : +65 67905516 Fax : +65 67910788 Email : msclo@ultra-flo.com

**200m3/d seawater desalination system component list**

No.	Item.	Spec.	Qty.	Unit.	Material.	Brand.	Remark.
	pretreatment						
1	raw tank	15T	1	pc			prepared by user
	liquid level switch	KEY-5	1	pc			
2	NaCLO dosing system		1	pc			chemical prepared by user
	metering pump	X007	1	pc		PULSAFEEDER	
	chemical dosing tank	80L	1	pc	PE	HUASHUN	
3	flocculate dosing system		1	pc			chemical prepared by user
	metering pump	X007	1	pc		PULSAFEEDER	
	chemical dosing tank	80L	1	pc	PE	HUASHUN	
	flocculate		1	barrel			
4	raw pump		1	pc			volume 25t/h, head30~40m, prepared by user
5	multi media filter	Ø1500*2400	1	pc	carbon steel, corrosion resistant	CHIWATEC	filtration speed 14.1M/H
	control system		1	set			
	inlet/outlet valve	DN80	2	pc	UPVC	FLOWX	pneumatic butterfly valve
	forward drain valve	DN80	1	pc	UPVC	FLOWX	pneumatic butterfly valve
	backwash inlet/outlet valve	DN100	2	pc	UPVC	FLOWX	pneumatic butterfly valve
	air feed/vent valve	DN40	2	pc	UPVC	FLOWX	pneumatic butterfly valve
	top/bottom distributor		1	set		HENGXIN	
	anthracite		671	kg			height 400mm
	quartz sand		2615	kg			height 800mm
	pressure gauge	0-100PSI	2	pc	304SS	ZHENXING	inlet/outlet
	sampling valve	DN15	1	pc	UPVC		outlet

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6	activated carbon filter	Ø1500*2400	1	pc	carbon steel, corrosion resistant		filtration speed 14.1M/H
	control system		1	set			
	inlet/outlet valve	DN80	2	pc	UPVC	FLOWX	pneumatic butterfly valve
	forward drain valve	DN80	1	pc	UPVC	FLOWX	pneumatic butterfly valve
	backwash inlet/outlet valve	DN100	2	pc	UPVC	FLOWX	pneumatic butterfly valve
	air feed/vent valve	DN40	2	pc	UPVC	FLOWX	pneumatic butterfly valve
	top/bottom distributor		1	set		HENGXIN	
	activated carbon		636	kg			height 800mm
	quartz sand		1307	kg			height 400mm
	pressure gauge	0-100PSI	1	pc	304SS	ZHENXING	output
	sampling valve	DN15	1	pc	UPVC		output
7	pipeline		1	bulk	UPVC		
	reverse osmosis						
1	anti-scalant dosing system		1	set			
	metering pump	X015	1	pc	304SS	PULSAFEEDER	
	chemical tank	KC-200L	1	pc	PE	HUASHUN	
	anti-scalant	ROMD300	1	barrel		WALES CHEM	
2	bag filter	HXP-BF-1-1	1	pc	UPVC	HENGXIN	precision 5u
3	filter bag		9	pc	PP	MINGQING	
4	high pressure pump	APP10.2	1	pc	duplex steel	danfoss	
5	motor	30kw	1	pc		CHINA	
6	frequency converter	30kw	1	pc		SIEMENS	
7	membrane vessel	80A160-1200	3	pc	FRP	ROPV	
8	membrane	SW30HRLE-4	12	pc		DOW	

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		00					
9	energy recovery device		1	set			
	PX module	PX-70S	1	pc	CERAMIC	ERI	
	booster pump	HP8503	1	pc		ERI	
10	feed water motorized valve	DN80	1	pc	BRASS	UPVC	
11	pump exit regulate valve	DN65	1	pc	316SS		
12	one way valve	DN65	1	pc	316SS		
14	pressure relief valve	62bar	1	pc			62bar
15	low pressure switch	JC-206	1	pc		3S	
16	pressure gauge	0-100PSI	2	pc	316SS	ZHENXING	before filtration/after filtration
17	pressure gauge	0-1200PSI	2	pc	316SS	ZHENXING	permeate/concentrate
18	flow meter	WLG-8350	2	pc		CREATE	sensor included. permeate/concentrate
19	feed water conductivity meter	DCK-8550	1	pc		CREATE	include sensor
20	product conductivity meter	DCK-8550	1	pc		CREATE	include sensor
21	sampling valve		6	pc	UPVC		
22	fresh water flushing system		1	set			use the same unit with cleaning system
	direct action solenoid valve	DN40	1	pc	BRASS		
23	pipeline		1	bulk			high pressure hose, low pressure UPVC
24	frame		1	set	carbon steel coated	CHIWATEC	
	cleaning system						
1	cleaning filter	YS15-40"	1	pc	304SS	TG	
	filter cartridge	2.75*40"*5um	10	pc	PP	MINGQING	
2	cleaning tank	MC-500L	1	pc	PE	HUASHUN	
3	liquid level switch	KEY-5	1	pc		ITALY	

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4	cleaning pump	CR20-3	1	pc	304SS	GRUNDFOS	24m3/h×32m×4KW
5	pressure gauge	0-150PSI	1	pc		YUYAO	
electric control system							
1	PLC		1	pc		SIEMENS	
2	electric element		1	bulk		CHINA	
3	electric control cabinet		1	pc	carbon steel coated	CHIWATECA	

Note: proposal based on raw water average TDS 35,000ppm.



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### 10T/H seawater desalination plant flow diagram

