

# CON-SERV



## MANUFACTURING

**Standard are the Obvious Con-Serv Qualities:**

User Friendly ■ Quality Construction ■ Performance ■ Low Cost to Operate ■ Inexpensive to Purchase

## Sea Water Reverse Osmosis Systems



### Optional Features

- Chemical Dosing System
- Clean-in-Place System
- TDS, pH, Temperature, Turbidity Instruments
- PLC Control
- Special Color or Private Label
- 50Hz Motor
- Crating

### Standard Features

- High-Rejection Sea Water Membranes
- 316L Stainless Steel Valves, Pressure Gauges
- 904L Stainless Steel High-Pressure Piping\*
- 60Hz/200V-460V, 3-phase motor\*
- Automatic High and Low Feed Pressure Shut-off
- Permeate and Concentrate Flowmeters\*
- 904L Stainless Steel Centrifugal Pump\*
- Automatic Feed Water Shut-off Valve
- 5-micron Sediment Prefilter
- Fiberglass Pressure Vessels
- Prefilter Pressure Gauges
- Automatic Permeate Flush\*
- Energy Recovery System\*
- Stainless Steel Frame

\* Standard Feature of HALIA-SW-5 and larger units, optional on HALIA-1 through HALIA-SW-4 systems

Design Assumptions:

Feed water of 36,000 mg/l at 25c, SDI < 3, Turbidity < 1

Flux, Minimum Brine Flow, and Recovery in

Accordance with membrane manufacturers recommendations

System Specifications

MODEL	SYSTEM CONFIGURATION											
	PRODUCTION		RECOVERY (%)	AND SIZE ELEMENTS	MOTOR		APPROXIMATE SHIPPING DIMENSIONS			APPROXIMATE SKID DIMENSIONS		
	GPD	m <sup>3</sup> /D			60Hz (HP)	60Hz (KW)	(L x W x H) (Inohec)	(L x W x H) (cm)	WEIGHT (lbs/Kg)	(L x W x H) (Inohec)	(L x W x H) (cm)	WEIGHT (lbs/Kg)
HALIA-SW-1	1,600	6	20	1 (4")	3	2.2	32 x 26 x 57	81 x 66 x 145	125/57	26 x 20 x 50	66 x 51 x 127	110/50
HALIA-SW-2	3,200	12	20	5 (4")	9.5	7	38 x 26 x 57	97 x 66 x 145	190/86	32 x 20 x 50	81 x 51 x 127	175/80
HALIA-SW-3	4,800	18	30	7 (4")	11	8	120 x 40 x 72	315 x 102 x 183	1300/591	108 x 32 x 60	274 x 66 x 152	1000/455
HALIA-SW-4	6,400	24	35	10 (4")	11	8	120 x 40 x 72	315 x 102 x 183	1500/545	108 x 32 x 60	274 x 66 x 152	1200/545
HALIA-SW-5	7,200	30	20	2 (8")	10.5	9.1	156 x 60 x 72	396 x 152 x 183	1800/682	144 x 48 x 60	366 x 122 x 152	1500/682
HALIA-SW-10	14,400	50	20	4 (8")	12.5	12.5	156 x 60 x 72	396 x 152 x 183	2100/955	144 x 48 x 60	366 x 122 x 152	1800/818
HALIA-SW-15	21,600	80	27	6 (8")	14.5	13.1	180 x 60 x 72	457 x 152 x 183	2600/1182	168 x 48 x 60	427 x 122 x 152	2200/1000
HALIA-SW-20	28,800	110	33	8 (8")	19.5	15.1	228 x 60 x 72	579 x 152 x 183	3100/1409	216 x 48 x 60	549 x 122 x 152	2700/1227
HALIA-SW-25	36,000	130	38	10 (8")	24	21.6	276 x 60 x 72	701 x 152 x 183	3600/1636	264 x 48 x 60	671 x 122 x 152	3200/1455
HALIA-SW-30	43,200	170	36	12 (8")	34	25.0	228 x 60 x 72	579 x 152 x 183	4050/1841	216 x 48 x 60	549 x 122 x 152	3650/1659
HALIA-SW-45	64,800	250	42	18 (8")	50	44.0	300 x 60 x 72	762 x 152 x 183	4800/2182	288 x 48 x 60	732 x 122 x 152	4300/1955
HALIA-SW-60	86,400	330	40	24 (8")	60.5	47.5	300 x 72 x 72	762 x 183 x 183	5500/2500	288 x 60 x 60	732 x 152 x 152	4950/2250
HALIA-SW-75	10,800	410	40	30 (8")	67.5	55.0	300 x 72 x 84	762 x 183 x 213	6150/2795	288 x 60 x 72	732 x 152 x 183	5650/2568
HALIA-SW-90	129,600	490	42	36 (8")	77.5	69.5	300 x 84 x 84	762 x 183 x 213	7000/3182	288 x 72 x 72	732 x 183 x 183	6450/2932
HALIA-SW-110	158,400	600	40	42 (8")	92.5	73.0	300 x 84 x 84	762 x 183 x 213	7800/3545	288 x 72 x 72	732 x 183 x 183	7250/3295

Contact our Application Engineers  
to Custom Design a Solution for your Project.