

Industrial Reverse Osmosis Systems

Hercules™ RO



Hercules™ brand Reverse Osmosis systems from Haliant Technologies provide the right combination of value and features required for any desalination application. Every Hercules™ R.O. system is manufactured from the highest quality components to the exacting standards of all Haliant Technologies equipment. Standard Hercules™ R.O. models are available for any industrial application from 1,600 to over 500,000 GPD.



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Design Assumptions

- Feed water of 500 mg/L TDS at 25 C, SDI < 3, Turbidity < 1 NTU
- Negligible permeate backpressure
- 3rd year of operation allowing for Flux Decline and Salt Passage Increase
- Flux, Minimum Brine Flow, and Recovery in accordance with membrane manufacturers recommendations

System Specifications

Standard Features

- Fiberglass-Wrapped TFC Membranes
- Stainless Steel Pump, Valves, Pressure Gauges
- Corrosion-Resistant Piping
- 60Hz/230V-460V, 3-phase TEFC motor
- Automatic High and Low Feed Pressure Shut-off
- Permeate and Concentrate Flowmeters
- Automatic Feed Water Shut-off Valve
- Stainless Steel 5-micron Sediment Prefilter
- Fiberglass Pressure Vessels
- Prefilter Pressure Gauges

Optional Features

- Chemical Dosing System
- Clean-in-Place System
- TDS, pH, Temperature, Turbidity Instruments
- PLC Control
- Special Color or Private Label
- 50Hz Motor
- Concentrate Recycling
- Automatic Feed Water or Permeate Flush
- Crating

MODEL	SYSTEM CONFIGURATION											
	PRODUCTION GPD	RECOVERY m3/D	RECOVERY (%)	NUMBER AND SIZE ELEMENTS	MOTOR		APPROXIMATE SHIPPING DIMENSIONS			APPROXIMATE SKID DIMENSIONS		
					60Hz (HP)	50Hz (KW)	(L x W x H) (inches)	(L x W x H) (cm)	WEIGHT (lbs/Kg)	(L x W x H) (inches)	(L x W x H) (cm)	WEIGHT (lbs/Kg)
HERC-RO-5	7,200	30	55	6 (4")	5	4	124 x 40 x 72	315 x 102 x 183	1175/534	108 x 32 x 60	274 x 81 x 152	875/398
HERC-RO-10	14,400	50	55	12 (4")	5	4	120 x 50 x 72	315 x 127 x 183	1300/591	108 x 42 x 60	274 x 96 x 152	1000/455
HERC-RO-15	21,600	80	65	18 (4")	5	4	168 x 50 x 72	427 x 127 x 183	1475/670	156 x 42 x 60	396 x 96 x 152	1150/523
HERC-RO-20	28,800	110	70	24 (4")	10	5	168 x 60 x 72	427 x 152 x 183	1700/773	156 x 52 x 60	396 x 132 x 152	1350/614
HERC-RO-25	36,000	130	75	30 (4")	10	7.5	168 x 60 x 72	427 x 152 x 183	1900/864	156 x 52 x 60	396 x 132 x 152	1550/705
HERC-RO-30	43,200	170	75	36 (4")	15	11	168 x 60 x 72	427 x 152 x 183	2100/955	156 x 52 x 60	396 x 132 x 152	1750/795
HERC-RO-45	64,800	250	63	12 (8")	15	11	228 x 60 x 84	579 x 152 x 213	2900/1318	216 x 48 x 72	549 x 122 x 183	2500/1136
HERC-RO-60	86,400	330	75	16 (8")	20	15	228 x 60 x 84	579 x 152 x 213	3450/1568	216 x 48 x 72	549 x 122 x 183	3050/1386
HERC-RO-75	108,000	410	75	20 (8")	20	15	228 x 74 x 84	579 x 188 x 213	4050/1841	216 x 62 x 72	549 x 157 x 183	3600/1636
HERC-RO-90	129,600	490	75	24 (8")	20	15	228 x 74 x 84	579 x 188 x 213	4600/2091	216 x 62 x 72	549 x 157 x 183	4150/1886
HERC-RO-110	158,400	600	75	30 (8")	25	18	306 x 74 x 84	777 x 188 x 213	5400/2455	288 x 62 x 72	732 x 157 x 183	4800/2182
HERC-RO-130	187,200	710	75	36 (8")	25	18	306 x 74 x 84	777 x 188 x 213	6050/2750	288 x 62 x 72	732 x 157 x 183	5450/2477
HERC-RO-150	216,000	820	75	42 (8")	40	30	306 x 74 x 84	777 x 188 x 213	6700/3045	288 x 62 x 72	732 x 157 x 183	6100/2773
HERC-RO-175	252,000	950	75	48 (8")	40	30	306 x 74 x 88	777 x 188 x 224	7450/3386	288 x 62 x 76	732 x 157 x 193	6800/3091
HERC-RO-200	288,000	1090	75	54 (8")	50	37	306 x 74 x 96	777 x 188 x 244	8300/3773	288 x 62 x 84	732 x 157 x 213	7600/3432
HERC-RO-225	324,000	1230	75	60 (8")	50	37	306 x 74 x 96	777 x 188 x 244	9100/4136	288 x 62 x 84	732 x 157 x 213	8400/3773
HERC-RO-250	360,000	1370	75	66 (8")	50	37	306 x 88 x 96	777 x 224 x 244	10000/4545	288 x 76 x 84	732 x 193 x 213	9250/4114
HERC-RO-275	396,000	1500	75	72 (8")	50	37	306 x 88 x 96	777 x 224 x 244	10850/4932	288 x 76 x 84	732 x 193 x 213	10100/4455



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