



**AMERICAN ENGINEERING SERVICES, INC.**  
 Water Treatment Solutions for the Global Community  
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# MEGA

20 to 410 Gallons Per minute

High Quality Brackish Water Reverse Osmosis Systems

**Model Mega-250**

360,000 gallon per day



Model	Estimated Machine Dimensions and Weights								Estimated Shipping Dimensions and Weights							
	Length		Width		Height		Weight		Length		Width		Height		Weight	
	in	cm	in	cm	in	cm	lb	kg	in	cm	in	cm	in	cm	lb	Kg
MEGA-20	195	495	55	140	65	165	2,400	1,080	215	546	75	191	95	241	2,650	1,193
MEGA-30	195	495	55	140	65	165	2,450	1,103	215	546	75	191	95	241	2,750	1,238
MEGA-40	195	495	55	140	65	165	2,950	1,328	215	546	75	191	95	241	3,250	1,463
MEGA-50	195	495	55	140	65	165	3,155	1,420	215	546	75	191	95	241	3,505	1,577
MEGA-60	195	495	55	140	65	165	3,860	1,737	215	546	75	191	95	241	4,210	1,895
MEGA-80	195	495	55	140	65	165	4,380	1,971	215	546	75	191	95	241	4,730	2,129
MEGA-100	195	495	55	140	65	165	5,600	2,520	215	546	75	191	95	241	6,000	2,700
MEGA-130	260	660	55	140	78	198	6,690	3,011	280	711	75	191	108	274	7,090	3,191
MEGA-150	260	660	55	140	78	198	8,500	3,825	280	711	75	191	108	274	8,900	4,005
MEGA-180	260	660	55	140	78	198	9,250	4,163	280	711	75	191	108	274	9,650	4,343
MEGA-200	260	660	55	140	78	198	11,000	4,950	280	711	75	191	108	274	11,420	5,139
MEGA-230	260	660	55	140	78	198	11,500	5,175	280	711	75	191	108	274	16,000	7,200
MEGA-250	260	660	55	140	78	198	12,000	5,400	280	711	75	191	108	274	12,450	5,603
MEGA-280	260	660	55	140	90	229	24,500	11,025	280	711	75	191	120	305	24,950	11,228
MEGA-300	260	660	55	140	90	229	26,000	11,700	280	711	75	191	120	305	26,480	11,916
MEGA-330	260	660	55	140	90	229	27,000	12,150	280	711	75	191	120	305	27,480	12,366
MEGA-360	260	660	55	140	90	229	28,000	12,600	280	711	75	191	120	305	28,500	12,825
MEGA-380	260	660	55	140	90	229	29,000	13,050	280	711	75	191	120	305	29,500	13,275
MEGA-410	260	660	55	140	90	229	30,000	13,500	280	711	75	191	120	305	30,550	13,748

Optional features may change the above dimensions and weights



# MEGA

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*High Quality Brackish Water Reverse Osmosis Systems*

## STANDARD FEATURES

- Concentrate recycle
- Permeate TDS meter
- Digital display flow meters (Permeate & Concentrate)
- 316 stainless steel cartridge prefilter, 5-micron
- 304 stainless steel centrifugal high pressure pump
- Liquid filled, 316 stainless steel pressure gauges
- High pressure piping: 316L stainless schedule 40
- Low pressure piping and valves: PVC Schedule 80
- Fiberglass, side-ported, 300 psi pressure vessels
- High surface area, TFC 8"x40" brackish water membranes
- Programmable electronic microprocessor
- Nema-4 electric enclosure
- Low pressure safety switch
- Automatic inlet shut-off valve
- 460V/60HZ/3PH, TEFC motor
- Steel frame, 2-part epoxy coat painted
- High pressure valves: 316 stainless steel
- Emergency Stop
- Sample Valves
- Cleaning Ports

## OPTIONAL FEATURES

- Upgrade pump to 316SS
- Chemical dosing systems
- Automatic Fast Flush
- Additional TDS meter
- 50 HZ system
- ORP meter
- pH meter
- Integrated cleaning station (CIP)
- Cold water membranes
- Nano-filtration membranes
- Recycle flow meter
- High pressure switch
- Single power point
- High TDS diversion

Model	Productivity			Recovery	No. of 8"x40" membranes	Port Sizes (in)			Motor HP	
	GPM	GPD	M <sup>3</sup> /D			Inlet	Perm.	Reject	60HZ	50HZ
MEGA-20	20	28,800	109	75%	(4),	2.0"	1.5"	1.0"	10	10
MEGA-30	30	43,200	164	75%	(6),	2.0"	1.5"	1.0"	15	15
MEGA-40	40	57,600	218	75%	(8),	2.0"	2.0"	1.0"	20	15
MEGA-50	50	72,000	273	75%	(10),	2.0"	2.0"	1.5"	20	20
MEGA-60	60	86,400	327	75%	(12),	2.0"	2.0"	1.5"	20	20
MEGA-80	80	115,200	436	75%	(16),	2.0"	3.0"	1.5"	25	25
MEGA-100	100	144,000	545	75%	(20),	3.0"	3.0"	1.5"	30	40
MEGA-130	130	187,200	709	75%	(25),	3.0"	3.0"	1.5"	40	40
MEGA-150	150	216,000	818	75%	(30),	3.0"	3.0"	2.0"	50	50
MEGA-180	180	259,200	981	75%	(35),	4.0"	4.0"	2.0"	50	50
MEGA-200	200	288,000	1,090	75%	(40),	4.0"	4.0"	2.0"	50	50
MEGA-230	230	331,200	1,254	75%	(45),	4.0"	4.0"	2.0"	60	50
MEGA-250	250	360,000	1,363	75%	(50),	4.0"	4.0"	2.0"	60	80
MEGA-280	280	403,200	1,526	75%	(55),	6.0"	6.0"	3.0"	60	80
MEGA-300	300	432,000	1,635	75%	(60),	6.0"	6.0"	3.0"	80	80
MEGA-330	330	475,200	1,799	75%	(65),	6.0"	6.0"	3.0"	80	80
MEGA-360	360	518,400	1,962	75%	(70),	6.0"	6.0"	3.0"	80	100
MEGA-380	380	547,200	2,071	75%	(75),	6.0"	6.0"	3.0"	100	100
MEGA-410	410	590,400	2,235	75%	(80),	6.0"	6.0"	3.0"	100	100

Productivity is based on feed water of 1,500 ppm TDS at 77°F (25°C)