

# TSG WATER RESOURCES

## Seawater Desalination Systems

Model	Rated Capacity, USGPD (m3/d) <sup>1</sup>	Recovery, %	Feed Flow Requirements USGPM (m3/d)	Power Consumption, KWH/Kgal (KWH/m3) <sup>2</sup>		Minimum Floor Space Requirements <sup>3</sup>	
				Without Energy Recovery	With Energy Recovery	Length, ft (m)	Width, ft (m)
S-2-004	4,000 (15.1)	38	7.3 (40)	22.2 (5.9)	Not Available	12.5 (3.8)	3 (0.9)
S-4-007	7,500 (28.4)	40	13 (71)	20.3 (5.4)	Not Available	12.5 (3.8)	3 (0.9)
M-1-010	10,000 (37.9)	40	17.4 (95)	20.2 (5.3)	16.4 (4.3)	12.5 (3.8)	4.1 (1.25)
M-1-015	15,000 (56.8)	40	26 (142)	20.6 (5.4)	15.1 (4.0)	15.5 (4.7)	4.1 (1.25)
M-2-020	20,000 (75.7)	40	35 (189)	19.5 (5.2)	14.9 (3.9)	12.5 (3.8)	5.0 (1.5)
M-2-025	25,000 (94.6)	40	43 (237)	21.8 (5.8)	12.4 (3.3)	15.5 (4.7)	5.0 (1.5) <sup>4</sup>
M-4-040	40,000 (151.4)	40	69 (379)	19.4 (5.1)	10.1 (2.7)	23 (7.0)	7.7 (2.3)
M-3-060	60,000 (227.1)	40	104 (568)	19.2 (5.1)	9.4 (2.5)	23 (7.0)	7.7 (2.3)
M-4-080	80,000 (302.8)	40	139 (757)	19.1 (5.0)	9.2 (2.4)	23 (7.0)	7.7 (2.3)
M-5-100	100,000 (379)	40	174 (946)	19.1 (5.0)	9.2 (2.4)	23 (7.0)	7.7 (2.3)

<sup>1</sup> Capacity based on 34,000 mg/L TDS feedwater at 25°C and specified recovery rate.

<sup>2</sup> Power consumption for desalination process only. Does not include feedwater supply pump or product transfer pumps. Standard systems designed for 230/460 volt, 60 hertz. S-2-004 can be supplied in 230 volt, single phase. Units available for 50-cycle power supply.

<sup>3</sup> Space requirements for system only. A minimum of 42 inches (1.07 m) required at each end of unit for element loading and off loading.

<sup>4</sup> Need to add 24 inches in width (0.6 m) for energy recovery option.



1855 NE 12<sup>th</sup> Avenue, Suite C  
 Gainesville, Florida 32641  
 Phone (352) 371-6925, 877-371-6925  
 Fax (352) 371-9238  
[www.tsqwater.com](http://www.tsqwater.com)