

Product summary

Watermaker Series

WM-E models

Record low power consumption



WM-B models

Economical yet high quality



Sea water and highly brackish water reverse osmosis systems capable of handling TDS up to 45000 mg/l.

Simple operation and installation. Production rate from 1057 to 5812 GPD (4 to 22 m³/day).

Typical Applications:

- Small community drinking water
- Small and medium sized hotels and resorts
- Private homes
- Aquaculture industry
- On- and offshore installations

Features:

- Compact design
- Fully automatic operation
- Automatic flush system
- Custom made IC controller, one button operation
- Feed and membrane pressure sensors
- TDS meter on product water
- Automatic messaging and error reporting
- Energy recovery system (E-models)
- Danfoss high pressure pumps
- Steel components in duplex and super duplex steel
- Extremely durable
- GSM monitoring and control system (optional)
- Easy to service
- Easy clean in place connection and operation

Product summary

50 / 60 Hz	WM4800E	WM9000E	WM11000E	WM22000E	WM4000B	WM9000B	WM18700B
Nominal water production l/day (gallon/day)	4800 (1268)	9000 (2378)	11000 (2906)	22000 (5812)	4000 (1057)	9000 (2378)	18700 (4940)
RO membrane No. x diameter x length Inch	3x3x21	3x3x40	4x3x40	8x3x40	3x3x21	3x3x40	6x3x40
Weight kg (lb)	44 (97)	65 (143)	90 (198)	120 (265)	37 (82)	60 (132)	130 (287)
Dimensions (LxWxH) mm (inch)	734x400x412 (29x16x16)	1192x400x41 2 (47x16x16)	1192x504x41 2 (47x20x16)	1192x563x730 (47x22x29)	734x400x402 (29x16x16)	1199x400x427 (47x16x17)	1192x462x750 (47x18x30)
Nominal pump input power² kW	0.7	0.9	1.0	2.0	1.8 / 2.1	2.4 / 2.8	4.9
Specific pump energy² kWh/m³ (kWh/1000 gallon)	3.5 (13)	2.4 (9)	2.2 (8.3)	2.2 (8.3)	10.8 (41)	6.4 (24)	6.3 (24)
Pressure adjustment	Auto				Manual		
Minimum inlet flow (feed & flush) m³/h (gallon/h)	1.2 (317) / 1.4 (374)			2.4 (634)	1.0 (264) / 1.2 (317)	1.3 (343) / 1.5 (398)	2.6 (668) / 2.5 (660)
Nominal membrane pressure bar (psi)	55.8 (809) / 55.1 (799)	54.9 (796) / 53.3 (773)	56.6 (821) / 53.9 (782)	56.5 (819)	51.3 (744) / 50.6 (734)	54.2 (786) / 52.8 (766)	56.0 (813) / 56.6 (821)
Membrane pressure range bar (psi)	20-69 (290-1001)				20-62 (290-899)	20-68 (290-986)	20-69 (290-1001)
Grid connections – single phase V	230			N.a.	230	N.a.	
Grid connections – 3 phase V	400 / 208, 480			400 / 208, 480 ³	400 / 208, 480		400 / 480
Feed & flush pressure bar (psi)	Min 0.5 (7.3), max 5 (73), rec. 2-5 (43-73)						
Water Connections (OD) mm (inch)	22 (0.9) - Hose tail fitting for a 3/4" hose						
Salt rejection	Min. 99.2 %, Average 99.4%						
Salinity monitoring	Continuous TDS readout on product water (temperature compensated)						
Total dissolved solids range, feed water (TDS)¹ mg/l	1,500 – 45,000						
Ambient temperature °C (°F)	0.5 – 50 (32.9 – 122)						

Rated performance may vary ±15%, Nominal conditions: 25 °C seawater at 32.000 mg/l TDS

¹ Depending on feed water temperature/amount of feed water solids (TDS)

² Based on simulation in ROSA design software from Dow Water & Process Solutions

³ A variable speed drive is required for operation in 60 Hz grid



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