

Data sheet WM9000B-340

9000 lpd (2378 gpd)
Without energy recovery system



AUTOMATED FEATURES:

- User friendly interface with single button operation
- Output for start stop of feed pump
- Input for start-stop on tank level switch
- Automatic fresh water flush system (start/stop, 4 hours/24 hours)
- Shut down at high/low membrane pressure, low/high feed water pressure, high product water flow, high salinity product water
- Integrated timer for setting quiet intervals

METERS/MONITORS:

- Custom made controller enables close monitoring
- Coloured icons giving continuous overview
- Single button gives access to lot of data:
 - Product water TDS
 - Product water flow
 - Hour counter
 - Approx. cumulative production
 - Feed/flush water pressure
 - Membrane pressure

PARTS AND MATERIALS:

- Danfoss APP in duplex and super duplex steel
- Major saltwater wetted steel parts in duplex or super duplex steel
- Frame in high quality PEHD polymer
- Over Voltage protection

OPTIONS:

GSM based monitoring, control and alarm messaging



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Hydraulic Data	50 Hz / 60 Hz	
Nominal water production I/day (gallon/day)	9000 (2378)	
Nominal membrane pressure bar (psi)	54.2 (786) / 52.8 (766)	
Total dissolved solids, fresh water (TDS) mg/l	<550	
Stabilized salt rejection % 99.4		
Membrane pressure range bar (psi) 20-68 (290-986)		
Membrane pressure control Manual		
Total dissolved solids range, feed water (TDS) ² mg/l	1500 – 45000	
Minimum inlet flow (feed & flush) m³/h (gallon/h)	1.32 (349) / 1.58 (417)	
Minimum flush water volume (3 x flush) I (gallon)	32 (8.5) / 38 (10.0)	
Minimum inlet pressure (feed & flush) bar (psi) 0.5 (7.3)		
Maximum inlet pressure (feed & flush) bar (psi) 5 (73)		
Maximum back pressure on fresh water bar (psi) 1.0 (14.5)		
Nominal pump input power ¹ kW	2.4 / 2.8	
Specific pump energy ¹ kWh/m³ (kWh/1000 gallon)	6.4 (24) / 7.5 (28)	

50 Hz/60 Hz	
3.0 (4.0) / 3.6 (4.8)	
3.5 / 4.2	
3 ph: 230/280-∆ or	
400/480-Y	
1440 / 1728	
Relay output	
Relay input	
IP 54	

Dimensions	
Watermaker (LxWxH) mm (inch)	1199x400x427 (47x16x17)
Control box (LxWxH) mm (inch)	392x200x155 (12x8x6)
Water inlet/outlet (OD) mm (inch)	22 (0.9)
Weight kg (lb)	60 (132)

Operating limits	
Feed water temperature ² °C (°F)	0.5 – 45 (32.9 – 113)
Ambient temperature °C (°F)	0.5 – 50 (32.9 – 122)

Components		
Membrane type	DOW/AqSep seawater	
Membrane quantity	3	
Membrane size Inches	3x40	
High pressure pump	APP 2.5 - Duplex steel	
Lubrication, coolants etc.	Not required	
Frame	Plastic, 316 steel	
Saltwater exposed parts	Duplex/316 steel, plastic	
Fresh water parts	316 steel, brass, plastic	
Controller	Custom made with display	
	(GSM interface as option)	

Part Number ³	
WM9000B-340 3x480 V, 60 Hz, 1700rpm	182B0026
WM9000B-340 3x400 V, 50 Hz, 1400rpm	182B0028

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

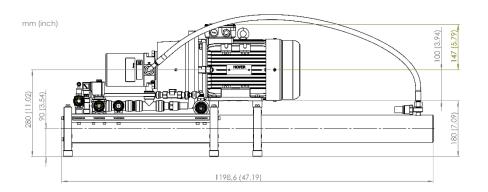
 $^{^{}m 1}$ Based on simulation in ROSA design software from Dow Water & Process Solutions

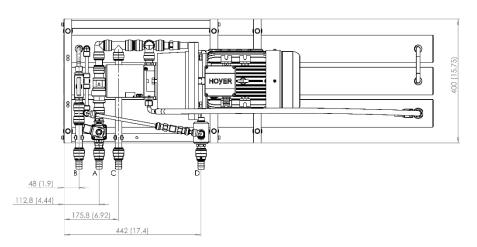
² Depending on feed water temperature/amount of feed water solids (TDS)

³ Contact AqSep for alternative motor voltages/frequencies



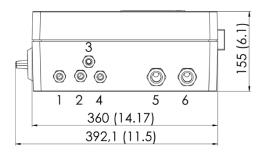
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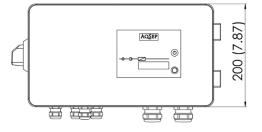


Α	Flush water IN
В	Seawater OUT
С	Seawater IN
D	Fresh water OUT

Control Box



1	Power Connection
2	Electrical motor
3	Solenoid valve
4	Cable tree – sensors
5	Feed pump signal – XS1
6	Level switch signal – XS2



The control box is connected to the sensors on the hydraulic unit via a cable tree of 3 m (9.9 ft.). Separate cables connects the electrical motor and valve.

Mating electrical connectors for start & stop of well pump/isolating valve as well as level switch signal are located inside the control box.

The optional GSM modem is also fitted to the control box.

AqSep A/S

c/o Danfoss • Nordborgvej 81, E14-N14 • 6430 Nordborg • Denmark Phone: +45 7488 4100 • E-mail: anders@aqsep.com • www.aqsep.com

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