



Data sheet WM18700B-340

18700 lpd (4940 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
- Overvoltage protection

OPTIONS:

- GSM based monitoring, control and alarm messaging
- Motor soft starter





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Hydraulic Data	50 Hz / 60 Hz	
Nominal water production I/day (gallon/day)	18700 (4940)	
Nominal membrane pressure bar (psi)	56.0 (812) / 56.6 (821)	
Total dissolved solids, fresh water (TDS) mg/l	<550	
Stabilized salt rejection %	99.4	
Membrane pressure range bar (psi)	20-69 (290-1001)	
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) 2.66 (703) / 2.60 (687)		
Minimum flush water volume (3 x flush) I (gallon) 70 (18.5)		
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 4.9		
Specific pump energy ¹ kWh/m³ (kWh/1000 gallon)	6.3 (24)	

50 Hz/60 Hz	
7.5 (10.1) / 9 (12.1)	
6.9 / 6.8	
3 ph: 400/480-∆ or	
690/830-Y	
2900 / 3480	
Relay output	
Relay input	
IP 54	

Dimensions	
Watermaker (LxWxH) mm (inch)	1192x462x750 (47x18x30)
Control box (LxWxH) mm (inch) 392x200x155 (12x8x6	
Water inlet/outlet (OD) mm (inch) 22 (0.9)	
Weight kg (lb)	130 (287)

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	brane type DOW/AqSep seawater	
Membrane quantity 6		
Membrane size Inches	3x40	
High pressure pump	APP 2.5 / 2.2 - Duplex steel	
Lubrication, coolants etc.	Not required	
Frame	Plastic	
Saltwater exposed parts	Duplex/316 steel, plastic	
Fresh water parts	316 steel, brass, plastic	
Controller	Custom made with display	
	(GSM interface as option)	
	(Motor soft starter as option)	

Part Number ³	
WM18700B-340 3x480 V, 60 Hz, 3480 rpm	182B0043
WM18700B-340 3x400 V, 50 Hz, 2900 rpm	182B0045

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

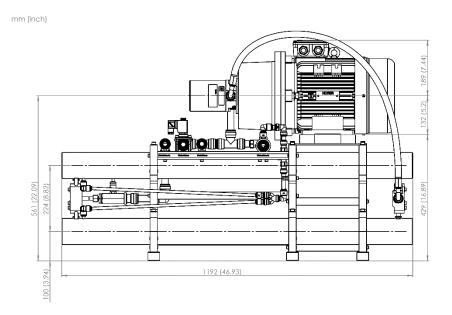
- ¹ Based on simulation in ROSA design software from Dow Water & Process Solutions
- ² Water production may need to be adjusted to match the specific combination of temperature and total dissolved solids in the feed water (TDS)
- ³ Contact AqSep for alternative motor voltages/frequencies

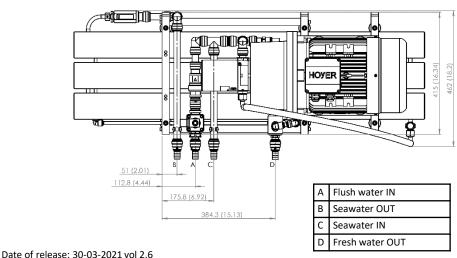
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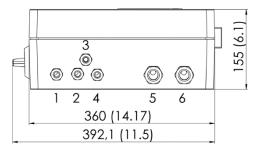
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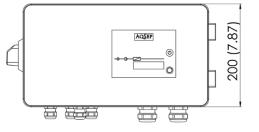




Control Box



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



The integrated control box is connected to the sensors via a cable tree. 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.



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