

# AQSEP

**The grass is always greener on your side**

AqSep Water Makers – enjoy the luxury of your own water supply



The AqSep water makers are the ideal way of setting up a new, independent water supply, or addressing problems with existing water supply systems, if you live in coastal areas or on islands with a limited, expensive or bad fresh water supply.

## The AqSep water makers provides all you need

Your key benefits:

### **Establish your own water supply or back-up water system**

If local regulation conditions permit, you can have access to more than sufficient water for any domestic use; or you can construct a powerful supplementary or back-up water system, in the event of problems with your existing water supply. You can also share your new water maker with neighbours or other houses in the vicinity and still have plenty of water for normal domestic use.

### **Abundant water**

The water maker produces up to 5,812 US Gallons / 22,000 litres per day. This is enough for the average family for domestic purposes and plenty to keep your garden lush and green, and your pool filled with cool, fresh water – every day, all year.

### **Mineral water quality**

The water is completely clean, typically at a quality level which compares favourably to mineral water.

### **Compact design**

As an example, the Water maker model WM4800E requires very little floor space. Its footprint is only 47x20 inches / 734x400 mm with a height of 16 inches / 412 mm. It can be placed anywhere indoors where there is adequate ventilation, and outdoors protected from direct exposure to sun and rain. The size and the design ensure that the machine will fit in any environment. After installation the water purifier will run automatically and unattended.

### **Environmentally friendly**

The unit does not contain oil or chemicals that may adversely impact the environment. The efficient technology of the unit makes it possible to lower energy consumption, thus also lowering costs and carbon emissions.

### **Long service life**

You are provided with the optimum component quality which will ensure a long service life.

### **Low production costs**

The power consumption is amazingly low, meaning that production of water at full capacity will cost you less than US\$ 2 per day. Should you choose to produce less than the maximum quantity, your production costs will be reduced proportionally.

### **Low costs of ownership**

Long service life and qualified installation and servicing of the water purifier can keep your total cost of ownership and operation, including depreciation, as low as approx. US\$ 10 per day. This makes the AqSep water maker a realistic alternative to traditional water supplies in most coastal areas.





WM-E Series  
Record low power consumption



WM-B Series  
Economical yet high quality



WM22000E  
Larger capacity

	Products						
	WM4800E-321	WM9000E-340	WM11000E-340	WM22000E-340	WM4000B-321	WM9000B-340	WM18700B-340
Unit production rate, gpd (lpd)	1268 (4800)	2378 (9000)	2906 (11000)	5812 (22000)	1057 (4000)	2378 (9000)	4940 (18700)
RO membrane: Nos × diameter × length	3×3"×21"	3×3"×40"	4×3"×40"	8×3"×40"	3×3"×21"	3×3"×40"	6×3"×40"
Weight - approx., lb (kg)	97 (44)	143 (65)	198 (90)	265 (120)	82 (37)	132 (60)	287 (130)
Measurements – L×W×H, inches (cm)	29"×16"×16" (73×40×41)	47"×16"×18" (119×40×41)	47"×20"×16" (119×50×41)	47"×22"×29" (119×56×73)	29"×16"×16" (73×40×40)	47"×16"×17" (120×40×43)	47"×18"×30" (119×46×75)
Pump power consumption <sup>1</sup> , kW	0.7	0.9	1.0	2.0	1.8	2.4	4.9
Specific pump energy <sup>1</sup> , kWh/1000 gallons (kWh/ m <sup>3</sup> )	13 (3.5)	9 (2.4)	8.3 (2.2)		41 (10.8)	24 (6.4)	24 (6.3)
Pressure adjustment	Auto				Manual		
System feed quantity, gph (lph)	354 (1337)	362 (1365)		719 (2721)	275 (1041)	349 (1319)	703 (2656)
System operation, psi (bar)	290 to 1001 (20-69)				290 to 899 (20-62)	290 to 986 (20-68)	290 to 1001 (20-69)
Motor supply, single phase	230 V; 50/60 Hz			N.a.	230 V; 50/60 Hz	N.a.	
Motor supply, 3 phase	400 V; 50 Hz 208, 480 V; 60 Hz			400 V; 50 Hz 208, 480 V; 60 Hz <sup>3</sup>	400 V; 50 Hz 208, 480 V; 60 Hz		400 V; 50 Hz 480 V; 60 Hz
System feed pressure, psi (bar)	Min. 7.3 (0.5), max. 73 (5), recommended 43-73 (2-5)						
Water connections	All connections: Hose tail fitting for a 3/4" hose, 19 mm internal diameter						
Salt rejection	Min. 99.2 %, Stabilized 99.4%						
Salinity monitoring	Continuous TDS readout on product water (temp. compensated)						
Salinity range <sup>2</sup> , mg/l TDS	1,500-45,000						
Ambient temperature range, °F (°C)	Min. 33 (0.5) – Max. 122 (50)						

Rated performance may vary ±15%, Nominal conditions: 25 °C seawater at 32,000 mg/l TDS, 50 Hz grid

<sup>1</sup> Based on simulation in ROSA design software from Dow Water & Process Solutions

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

<sup>3</sup> A variable speed drive is required for operation in 60 Hz grid

# Distinguished quality from AqSep

AqSep A/S is an international company and a leader in the development of small decentralized water purification systems & solutions. In combining and refining mechanical and electronic industrial components we have and are continuously developing products enabling people around the world in overcoming the increasing scarcity of freshwater.

Our products help customers in several different segments. Governments,

Institutions, Hotels & Resorts, NGO programs as well as private homes are all benefitting from our technology. Our units are amongst the most efficient units on the market and in short AqSep contributes to the conveniences of modern life as well as to a safer and cleaner environment.

Through innovative design and electronics we provide robust solutions of high quality, reliability and versatility. AqSep strives to meet its goals with

minimal consumption of raw materials and energy, the least possible impact on the surrounding environment, and the most effective use of resources.

AqSep comprises a global network of Partners, Agents and Distributors with local managers who know the special needs of their markets. Sales engineers and qualified technical staff are in place to ensure that our products are sold, serviced and trusted around the world.



## Government programmes

Various Governments are recognizing their responsibility in providing drinking water to urban coastal villages. The AqSep water makers are ideal for these kinds of installations due to their robustness and capability to be remotely monitored and controlled.



## For resorts

Continuously and unlimited access to high quality freshwater is mandatory for all coastal resorts. Supply from ordinary sources can be costly, vary in quality and sometimes not available! With your own system, fluctuations in supply and quality are eliminated for good.



## For offshore

Ocean going vessels, and offshore installations such as oil rigs or fish farms are accustomed with the generation of freshwater from seawater. Often existing equipment is bulky and require frequent maintains. The compact Water Makers from AqSep can with its small footprint easily be placed and require minimal maintains.



## For private homes

AqSep Water Makers offer solutions as an alternative to ordinary water supplies like trucked, shipped or piped water on a very competitive scale. For higher water demand, more machines can be installed in parallel.

# AQSEP

**AqSep A/S**

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

AqSep can accept no responsibility for possible errors in catalogues, brochures and other printed material. AqSep reserves the right to alter its products without notice. This also applies to products already in order provided that such alterations can be made without subsequent changes being necessary in specifications already agreed. All AqSep trademarks in this material are property to AqSep. AqSep and the AqSep logo are trademarks of AqSep A/S. All rights reserved.