

FACT SHEET VITAE 1000

Production 24h (40% <i>Hr</i> ; 25°C)	1.000L/24h	
*Total Power Consumption	12kW	
Structure	stainless steel	
*Weight (Kg)	900	
* Gas Compressor	A407A or R507A	
Performance	8% <i>Hr</i> y 50°C a 100% <i>Hr</i> y 4°C	
*Dimensions	a: 260 x b: 220 cm h: 1,90 cm	
*Power Supply	III	400V y 50Hz



Compressor power	+30°C/15% <i>Hr</i>		+25°C/45% <i>Hr</i>		+24°C/78% <i>Hr</i>		+30°C/80% <i>hr</i>	
	Water production	Consumption	Water production	Consumption	Water production	Consumption	Water production	Consumption
9kW	450L/day	0,58kwh/Litre	1000L/day	0,173kwh/Litre	1150L/day	0,156kwh/Litre	1335L/day	0,146kwh/Litre

Average conditions	Annual maxims	Day power consumption	Night power consumption	power consumption Daily average
+30°C y 15%<i>HR</i> Desert climate		475 Kwh./m3	108 Kwh./m3	292Kwh/m3
+25°C y 60%<i>HR</i> Subtropical C		190 Kwh./m3	40 Kwh./m3	115 Kwh./m3

* Aquaer reserves the right to change the elements to adapt the equipment to optimize performance

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The Aquaer Generators cool down the air to 0°C by means of a refrigerating plant, specifically designed to that end. It will be a matter of moving more or less air to obtain the required volume of water.

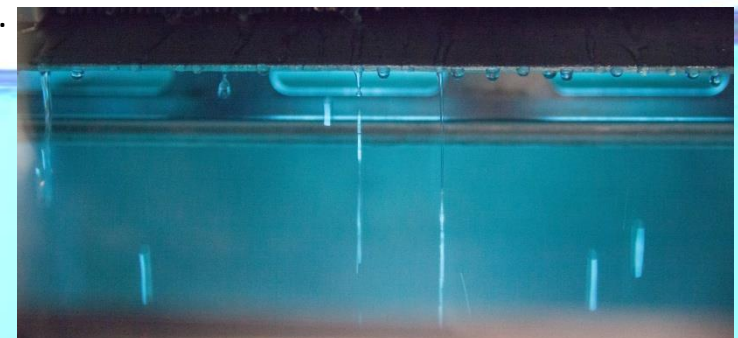


The installation is made mainly out of stain steel and the basic components of the system are as follows: Evaporators, Condensers, Compressors, Extractor Fans, filters and Interchangers.

The generators will be calibrated to operate optimally during the least favorable monthly weather conditions of the project area, thereby assuring the daily projected water output.

As the Aquaer Generator can be designed to work with many different types of energy, other than electricity (thermal solar energy, photovoltaic solar energy, wind energy, etc., thereby keeping the cost of the water obtained at a minimum) it can be installed in any location in the proximity of a needy community.

The expected maintenance of the generators is negligible as they function on the same principle as the refrigerator we know from our homes where hardly any repair work is necessary. It would be relatively easy to train somebody from the relevant community to clean and change air-filters on a regular basis.



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Chemical Water analysis and compared

	Aquaer Water Generator	Walvis Bay Chemical Water Análisis	DWA NAMIBIA Standard		SABS South Africa Standard		Internacional Standard Regarding water quality		
			Class A	Class B	(Guide)	MAX	WHO (Guide)	EU (Guide)	EU MAX
Conductivity	29,2	117	150	300	100	200		400	
PH	7,50	8	6-9	5.5-9.5	6.6-9	9.5	6.5-8.5	6.5-8.5	6.5-8.5
Chloride, mg Cl/Lt	3,5	149	250	600	250	1000	250	250	250
Hardness, mg Ca/Lt	3,8	348B	300	650	500	1000			
Iron ppm	0,06	0.02A	0.1	1	0.1	1		400	
Copper ppm	0,01	0.05A	0.5	1	0.5	1	6.5-8.5	6.5-8.5	6.5-8.5
Nitrates ppm	0,06	3.4A	10	20	6	10	250	250	250