

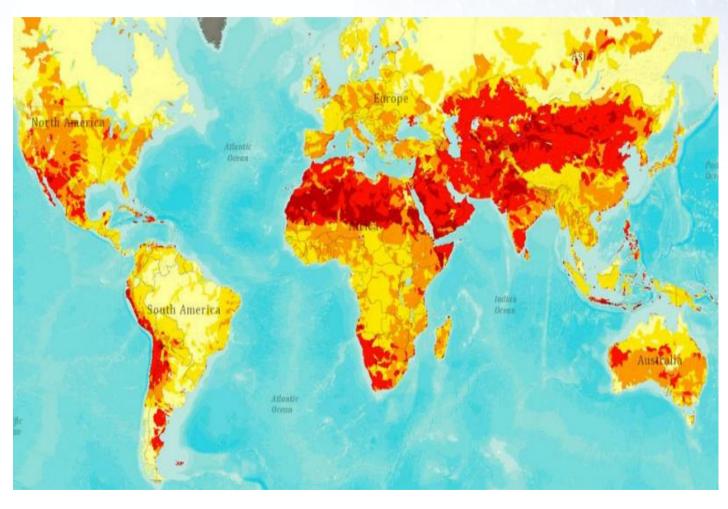
WATER FOR LIFE



Water

scarcity

Water Crisis



Little or not water scarcity

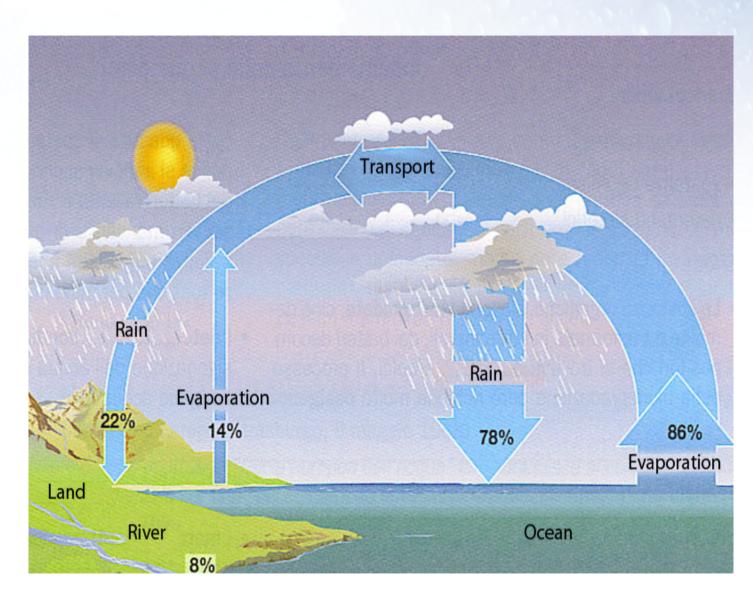
85% of the world population lives in the driest half of the planet

3,4 million people die each year from lack of water and related illnesses

880 million people worldwide do not have access to healthy drinking water



Water Cycle



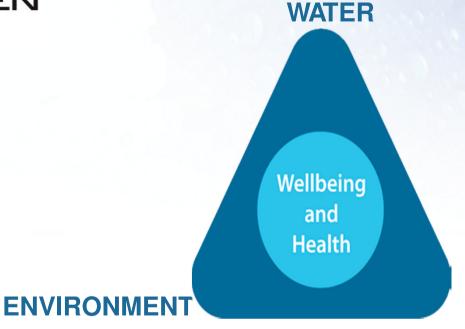
- The vapour is an inexhaustible source, with a fast and immediate recycling.
- The 22% of vapour falls on the earth, giving excess water in some areas and leaving scarcity in several populated areas



SOLGREEN solve the problem with its own technology AIR TO WATER, producing water from air, quickly and where it's needed



Water for Life



"We produce clean, healthy water where and when it is needed most.

Our systems are in perfect and optimised balance between low energy consumption, water for life and environmental friendliness."

ENERGY

Solgreen systems are engineered and designed to:

- produce the highest quality water for well-being and health,
- consuming energy on the most efficient basis possible, while having little or no negative impact on the environment.

We are also working on waste management initiatives that:

- would allow us to operate systems with little or no energy cost,
- with the potential to capture carbon credits and create an additional source of revenue.



Products

SAWA SYSTEM TECHNOLOGY

The SAWA systems are built on a standard industrial modular basis.

The range is available in the modular models capable of producing 250, 500, 1000, 1500, 2500, 5000 or 10000 litres of water per day (at 30°C,70% R.H.).

The SAWA, in the HWAC configuration, produces also:

- Drinking Water
- 2. Heat Water (50°C)
- 3. Primary fresh air (24°C, 40% R.H.)
- 4. Cold Water (7°C)

The SAWA has an operating temperature and humidity of 5°C, 90% R.H. / 50°C, 10% R.H.





SAWA - Unit Range, private application



250 litres/day



500 litres/day



1000 litres/day



SAWA - Unit Range, building and industrial



2500 litres/day



5000 litres/day



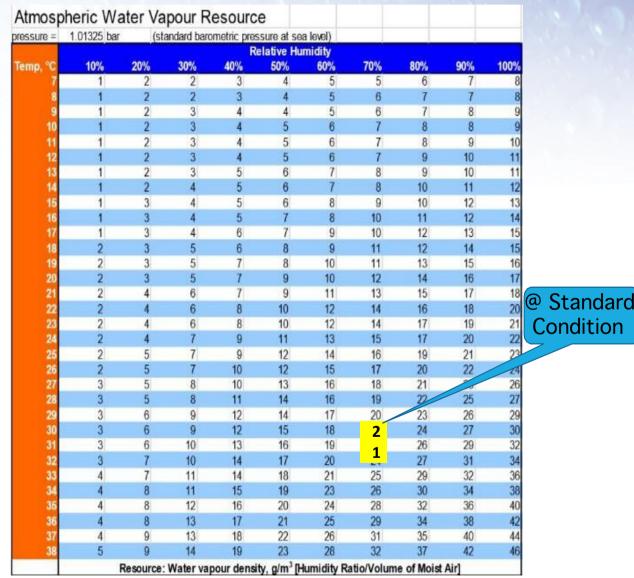


Technology How much water is there in the air?

Our patented technology system allows to produce the **35%** more of water than any existing AIR TO WATER system.

At 30°C,70% humidity, 1m³ of air contains **21.9g** of vapour.

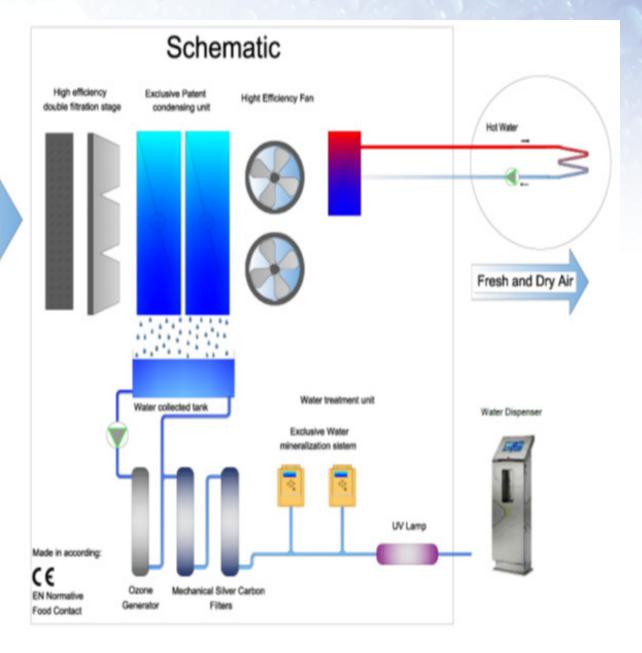
Patented technology allows to condense more than the **60%** of the vapour without increasing energy consumption.





Air Flow

Tipical system





System Main Advantages

Systems can operate anywhere:

- No need for a "primary source of water" (sea, rivers, lakes, recycled water plants...) to transform available water into drinking one.
- > No need for infrastructures.
- No need daily water transport.
- > Sawa produce high quality and safety drinking water
- Sawa is user friendly.
- > Sawa is a full green machine with CO2 reduction.



Systems supply a large quantity of thermal energy (hot and cold air):

This is the Key and the opportunity for very significant "Energy/Cost savings"



SAWA



Control System

Exclusive Water Treatment

TECHNOLOGY

- Flexible and modular design
- Hight-performance components
- Compact frame design
- **Solid Foundation**
- Satellite / GSM Control
- 5 Patent Application filed for SAWA





System

SAWA



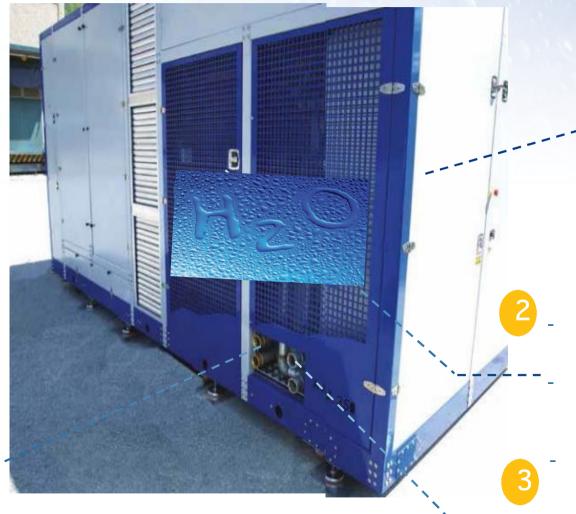
INOX 316L and Galvanized Steel under the normative of Food&Beverage



We produce, at the same cost, 4 energy sources at the same time



from 25 kW to 100 kW (approx. 17m3 with 5°C of temperature difference)



Production of primary fresh & dry air

8000 m³/h; 24°C; 40% R.H.

External water heating circuit, **50°C**Up to 120 kW 2000l/h

Up to 120 kW, 2000l/h with 40°C of temperature difference



Water Treatment System







Exclusive Water Treatment System

WRAS compliance

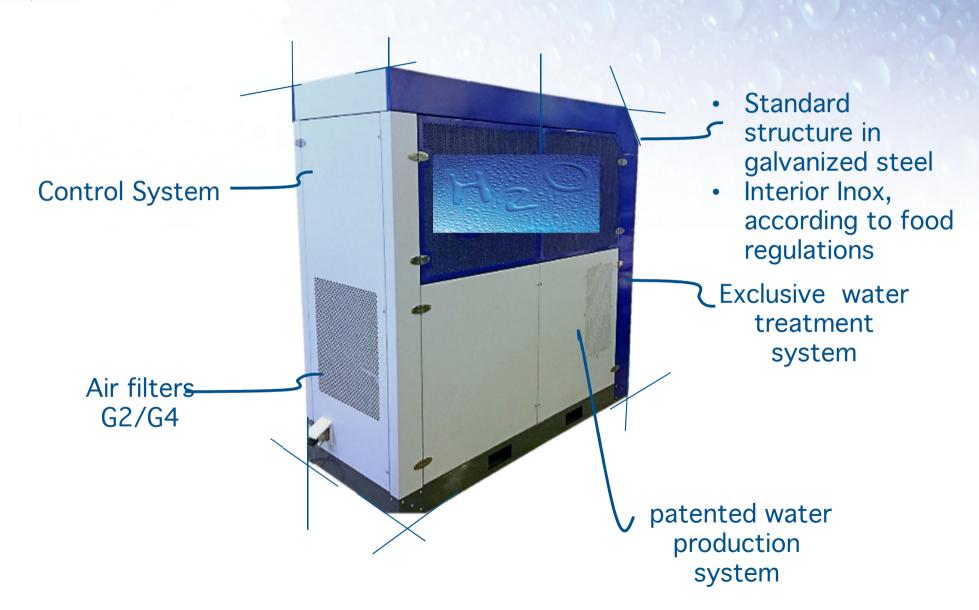
Real Time Water
- Quality SensorControl

Water Quality
Official Certification





SAWA 25-50-100-250-500-1000





SAWA 25-50-100 "HOME"



PANEL



Water Treatment Configuration

Provides different water qualities to perfectly fit different purposes.

□ BASIC

✓ Purified water suitable for irrigation, washing, industrial purposes, zoo technical use, etc.

DRINKING

Perfectly Pure and Tasty drinking water for Superior Quality human consumption. The custom mineralization could provide special taste and water features.

MINERAL FREE

 \checkmark Distilled water (2 M Ω of resistivity) suitable for both industrial and particular alimentary uses.

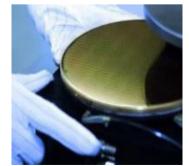
■ MINERAL FREE PLUS

High profile and quality distilled water (over 15 M Ω of resistivity). The product is a very high quality tech water suitable for cosmetic, pharmaceutical, electronic industries and also for special food&beverage productions.











SAWA DRINKING PREMIUM:

"SAWA DRINKING PREMIUM produces the best quality mineralized drinking water."

The requirement of a nutrient, as defined by the World Health Organization and the Food and Agriculture Organization (WHO/FAO), is "the lowest continuing level of nutrient intake that, at a specified efficiency of utilization, will maintain the defined level of nutriture in the individual".

Calcium, Na, K, Cl, Mg, Fe, Zn, Cu, Cr, I, Co, Mo and Se are unequivocally essential for human health. The relative minerals contribution of water to total dietary intake of selected trace elements and electrolytes is between 1 up to 20%. The micronutrients with the largest proportion of intake from drinking water are <u>calcium and magnesium</u>. For these elements, water may provide up to 20% of the required total daily intake.

In Sawa DRINKING PREMIUM we can find all the substances and elements of a typical best mineral water, such as magnesium, calcium, potassium, sodium, sulphates, carbonates, bicarbonates, chlorides and many other important trace elements.

Chemical and Microbiological Laboratories internationally recognized guarantee the chemical and microbiological compliance of Sawa DRINKING PREMIUM system, and above all the respect of nutritional elements added.

Furthermore, for particular tastes and beverage request, it is also possible to change the mineralization doses to customize the taste. Moreover, probes verify in real time every part of water treatment unit (in compliance with any ISO quality system and in accordance with HACCP* rules) to ensure the maximum security and quality in bottling system too.



Quality Water Remote Control Systems

SENSORS AND PROBES:

SAWA machines can be equipped with a sensor set devoted to monitor the whole system with satellite or GSM technology.

It allows us:

- > to monitor in real time chemical and physical parameters such as: pH, Conductibility, Temperature, Water Flow and, additionally, Redox and Turbidity;
- > to control, on site and from remote, the whole water treatment functionality;
- to monitor in real time consumables life time;
- to register and archive warning and fatal error data;
- > to integrate Sawa sensor control software with manufacturing software.



SAWA WATER TESTS



SAWA Series Water Chemical And Biological Tests

In SAWA final tests a huge number of parameters is taken into account as indicator of the water quality. In the following table the number of such parameters is reported.

Indicators	Number of analysed parameters
Chemicals	44
Biological	10

All the above parameters are analysed in laboratories certified in compliance with ISO 17025

After the final test, other parameters may be analysed on site in order to guarantee the compliance to the final destination and use of the system.



EAU - Water Analisys

مختبرات ويمبي ذمم م

LABORATORY REPORT

Client / Establishment	Name: Seas Falcon Trading LLC.					
	Address and Location: Abu Dhabi U.A.E.					
Report No	WAOC16-2735.1	Laboratory Sample ID	WAOC16-2735.1			
Sampling Date / Time	20/10/2016	Date Reported	31/10/2016			
Sampled by	Wimpey Rep: (CP)	Receiving Date /Time	20/10/2016			
Sample Type	Drinking Water	Laboratory Request No	WAOC16-2735			
Sample Source	Not Given	Point of Disposal As stated by the client	Not Given			
Sampling Procedure	APHA	On site observation / Test Appearance	Clear			
Sampling Apparatus	Bottle	Sample Temperature	35.0 °C			
Sampling Location	Ware House	On Site Treatment / Preservation of sample	Cool Box <4°C			
Test Method	Standard Methods for th	ne Examination of Water and Waste	water, APHA/AWWA/WEF			

ANALYSIS RESULTS

DATE OF ANALYSIS: 20/10/2016 - 30/10/2016

Physical Parameters	Method	Unit	Result	Limits
Colour	APHA 2120*	Pt/Co	<5	15
Turbidity (including suspended solids)	APHA 2130 B*	NTU	<1	5
Odour	APHA 2150*		Unobjectionable	Unobjectionable
Taste	APHA 2160*	-	Unobjectionable	Unobjectionable
Total Dissolved Solids	APHA 2540C	mg/L	132	100-1000
Calcium hardness as CaCO3	APHA 3500 Ca B	mg/L	94	200
Total hardness as CaCO3	APHA 2340 C	mg/L	102	300
Langelier saturation index	Calculation*	Slightly positive	-1.04	0.0-0.5
pH	APHA 4500 H+B	-	7.74	6.5-8.0
Residual chlorine	HACH 8021	mg/L	<0.02	0.2

Inorganic Chemicals	Method	Unit	Result	Limits
Chloride	APHA 4500 CI B	mg/L	70	250.0
Nitrate	HACH 8039*	mg/L	2.1	
Total organic carbon	USEPA 3510C/8270 D*	mg/L	<0.1	1.0
Ammonia	HACH 10205*	mg/L	< 0.02	0.5
Nitrite	HACH 8507*	mg/L	0.50	3.0
Phosphorus	HACH 8048*	mg/L	0.9	2.2
Sulphate	HACH 8051*	mg/L	<2	250.0
Phenols	HACH 8029*	µg/L	<0.002	0.5
Fluoride	HACH 8047	µg/L	150	1,500.0
Boron	HACH 8015*	µg/L	<200	2,400.0
Cyanide	HACH 8027*	pg/L	<10	70.0
Magnesium	APHA 3500 Mg	mg/L	1.92	30.0
Bromate	APHA 4110 D*	µg/L	<5	10

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مختبرات ويمبي ذمم

WAOC16-2375.1

Trace Elements	Method	Unit	Result	Limit
Arsenic		μg/L	<0.01	10.0
Chromium		μg/L	<10	50.0
Lead	-	μg/L	<10	10.0
Mercury		μg/L	<1	6.0
Selenium		μg/L	<1	
Barium	APHA 3111 A/3111 B*	μg/L	<10	700.0
Cadmium		μg/L	<1	3.0
Manganese		μg/L	<10	400.0
Nickel		μg/L	<10	70.0
Tin		μg/L	<10	
Zinc		mg/L	<0.01	5.0
Aluminum		mg/L	<0.01	0.2
Iron		mg/L	<0.01	0.2
Potassium		mg/L	3.6	12.0
Sodium		mg/L	1.51	150.0
Copper		mg/L	<0.01	1.0

Pesticides	Method	Unit	Result	Limit
Endrine		μg/L	<0.1	0.6
Lindane		μg/L	<1	2.0
Methoxychlor	USEPA 3510C/8270 D*	μg/L	<10	20.0
2,4 Dichlorophexy Acetic Acid		μg/L	<10	30.0
2,4,5 Trichlorophenoxy		μg/L	45	9.0
Heptachlor		μg/L	< 0.01	0.03
Aldrin		µg/L	<0.01	0.03
DDT		μg/L	<1	1.0
Chlordane		µg/L	<0.1	0.2
Dieldrin		μg/L	< 0.01	0.03
Heptachlor epoxide	1	μg/L	<0.01	0.03
Total pesticides (i)	USEPA 3510C/8270 D*	μg/L	<0.1	0.5

Organic Parameters	Method	Unit	Result	Limit
Trichloroethene		μg/L	<10	20.0
Benzene		μg/L	<10	10.0
Chlorobenzene		μg/L	<10	300.0
Tetrachloromethane		μg/L	<1	3.0
Tetrachloroethane		μg/L	<10	40.0
1,2-Dichloroethane	USEPA 8260 B*	μg/L	<10	30.0
Benzo Pyrene		μg/L	<0.1	0.7
Dichloromethane		μg/L	<10	20.0
Bromoform	1	μg/L	<0.1	0.1
Chloroform	LU VIL	μg/L	<0.1	0.3
1,2-Dichloroethene		μg/L	<10	50.0

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مختبرات ويمبي ذمم

WAOC16-2375.1

Organic Parameters	Method	Unit	Result	Limit
Dibromochloromethane	USEPA 8260 B*	μg/L	<0.1	0.1
Chlorine		μg/L	<0.02	
Toluene		µg/L	<10	700.0
Bromodichloromethane		µg/L	< 0.01	0.06
1,2-Dichlorobenzene		µg/L	<10	1,000.0
1,4-Dichlorobenzene		µg/L	<10	300.0
Vinyl Chloride		μg/L	<0.1	0.3
THMs		µg/L	<1.0	s 1.0

Microbiological Parameter	Method	Unit	Result	Limit
Total Coliforms	APHA 9222B	CFU/100 ml	Not detected	Zero
Enterococci	BS EN-ISO- 7899:2:2000	CFU/100 ml	Not detected	Zero
Pseudomonas aeruginosa	CCFRA 2.5.2	CFU/250 ml	Not detected	Zero
E coli	APHA 9222 B&G	CFU/100 ml	Not detected	Zero
Faecal coliform	APHA 9222 D	CFU/100 ml	Not detected	Zero
TBC (Non -pathogenic)	APHA 9215B	CFU/ml	Not detected ¹	100

_	_	_	_	_	-	-
1Lim	t of	Det	tect	tion	=	4

Radio activity#	Method	Unit	Result	Limit
Gross Alpha	F&B-RA-AD-004	Bq/L	0.03	0.5 max
Gross Beta	F&B-RA-AD-004	Bq/L	0.17	1.0 max

Analysis conducted by: RR/SJ/SC

Signed for and on behalf of Wimpey Laboratories

SREE OTH M I HALE MANAGES

Assistant Laboratory Manager
Test results relate only to the samples tested.
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Page 3 of 3

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Swiss - Water Analisys

Laboratorio cantonale



ti 🎚

Rapporto di prova nº 16LA06233 del 17.10.2016



Laboratorio cantonale 6500 Bellinzona

SEAS Societé de l'Eau Aerienne Suisse SA Via Industria 13/A 6826 Riva San Vitale

Descrizione campione: Acqua alla captazione Data accettazione: 05.10.2016

Punto di prelievo:

Data inizio analisi: 05.10.2016

SEAS, Riva S. Vitale Prelievo eseguito da: Cliente /

N° Ordine 16-002938	Tariffa Vedi tariffario	Condizioni Vedi Condizioni generali	Netto fr. 1,881.00	IVA esclusa	Seguirà fattura
Analisi					

Descrizione	Metodo	Risultato	Unità di misura
Escherichia coli	SOP-LAB147	0	UFC/100ml
Enterococchi	SOP-LAB146	0	UFC/100ml
Germi aerobi mesofili	SOP-LAB002	27	UFC/ml
Conducibilità elettrica a 20°C	EN ISO 27888	334	µS/cm
Valore pH (in laboratorio)	SOP-LAB051	8.27	
Consumo acido a pH 8.2	SOP-LAB051	0.03	mmol/L
Consumo acido a pH 4.3	SOP-LAB051	1.54	mmol/L
drogencarbonato (HCO3-, calcolato)	SOP-LAB051	87	mg /L
Ourezza temporanea	SOP-LAB051	0.77	mmol/L
Durezza totale	SOP-LAB051	1.05	mmol/L
Durezza permanente	SOP-LAB051	0.28	mmol/L
oHs (pHeq)	MSDA 641.3	7.96	
ndice di saturazione	MSDA 641.3	0.31	
Anidride carbonica all'equilibrio (CO2 eq.)	MSDA 641.3	1.5	mg CO2/L

Il presente rapporto di prova, riproducibile solo nella sua forma integrate, si riferisce exclusivamente alli campione i sotroposto il a prova.

Esso non può servire a scrpo pubblicità o fare stato in caso di contestazioni ufficiali. Su richiesta sono disposibili informazioni riquardardi i matodi anglifici. La riproduzione parziale è vietata.

Laboratorio cantonale



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Rapporto di prova nº 16LA06233 del 17.10.2016

Descrizione	Metodo	Risultato	Unità di misura
Anidride carbonica libera (CO2 libera)	MSDA 641.3	0.5	mg CO2/L
Anidride carbonica aggressiva (CO2 aggr.)	MSDA 641.3	0.0	mg CO2/L
Caratterizzazione	MSDA 239.1	Increstante, dolce	
Consumo in permanganato di potassio	MSDA 644.1	0.8	mg KMnO4/L
Carbonio organico disciolto (DOC)	SOP-LAB121	0.3	mg C/L
Calcio	SOP-LAB051	37.7	mg Ca+2/L
Magnesio	SOP-LAB051	2.6	mg Mg+2/L
Sodio	SOP-LAB083	28.1	mg Na+/L
Potassio	SOP-LAB083	4.8	mg K+/L
Ammonio	SOP-LAB083	< 0.05	mg NH4+/L
Fluoruro	SOP-LAB083	< 0.05	mg F-/L
Cloruro	SOP-LAB083	59.0	mg CH/L
Nitrito	SOP-LAB083	< 0.01	mg NO2-/L
Bromuro	SOP-LAB083	< 0.05	mg Br-/L
Nitrato	SOP-LAB083	5.0	mg NO3-/L
Orto-fosfato (espresso come P)	MSDA 628.1	< 0.01	mg P/L
Solfato	SOP-LAB083	8.3	mg SO4-2/L
Alluminio	SOP-LAB152	< 4,00	µg/L
Antimonio	SOP-LAB152	< 0.20	µg/L
Argento	SOP-LAB152	0.22	µg/L
Arsenico	SOP-LAB152	< 0.10	µg/L
Bario	SOP-LAB152	5.19	µg/L
Boro	SOP-LAB152	8.53	µg/L
Cadmio	SOP-LAB152	< 0,10	µg/L
Cromo	SOP-LAB152	0.12	μg/L

Pagina 2 di 6

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Laboratorio cantonale



Rapporto di prova nº 16LA06233 del 17.10.2016

Descrizione	Metodo	Risultato	Unità di misura
Ferro	SOP-LAB152	40.11	μg/L
Manganese	SOP-LAB152	0.78	μg/L
Mercurio	SOP-LAB152	< 0.20	μg/L
Nichelio	SOP-LAB152	1.29	µg/L
Piombo	SOP-LAB152	0.34	µg/L
Rame	SOP-LAB152	4.57	μg/L
Selenio	SOP-LAB152	< 0,10	μg/L
Uranio	SOP-LAB152	< 0.10	μg/L
Zinco	SOP-LAB152	13.76	μg/L
Naftalene	ISO 17993:2002(E)	< 0,01	μg/L
Acenaftene	ISO 17993:2002(E)	< 0.01	μg/L
Fluorene	ISO 17993:2002(E)	< 0.01	μg/L
Fenantrene	ISO 17993:2002(E)	< 0.01	μg/L
Antracene	ISO 17993:2002(E)	< 0.01	µg/L
Fluorantene	ISO 17993:2002(E)	< 0.01	µg/L
Pirene	ISO 17993:2002(E)	< 0.01	µg/L
Benzo(a)antracene	ISO 17993:2002(E)	< 0.01	μg/L
Crisene	ISO 17993:2002(E)	< 0.01	µg/L
Benzo(b)fluorantene	ISO 17993:2002(E)	< 0.01	μg/L
Benzo(k)fluorantene	ISO 17993:2002(E)	< 0.01	µg/L
Benzo(a)pirene	ISO 17993:2002(E)	< 0,01	µg/L
Dibenzo(ah)antracene	ISO 17993:2002(E)	< 0.01	µg/L
Benzo(ghi)perilene	ISO 17993:2002(E)	< 0.01	µg/L
ndeno(1,2,3-cd)pirene	ISO 17993:2002(E)	< 0.01	µg/L
Somma PAH (vedi nota)	ISO 17993:2002(E)	< 0.01	µg/L

Pagina 1 di 6



Swiss - Water Analisys

Laboratorio cantonale





Mirasole 22 telefono 091 814 61 00 Bellinzona fax 091 814 61

Rapporto di prova nº 16LA06233 del 17.10.2016

Descrizione	Metodo	Risultato	Unità di misura
Diclorometano	SOP-LAB135	< 0.05	μg/L
cis-1,2-dicloroetilene	SOP-LAB135	< 0.05	µg/L
Metil-tert-butil etere (MTBE)	SOP-LAB135	< 0.05	hB/l'
Etil-tert-butil etere (ETBE)	SOP-LAB135	< 0.05	µg/L
Cloroformio	SOP-LAB135	0.25	µg/L
1,1,1-tricloroetano	SOP-LAB135	< 0,05	µg/L
Tetracloruro di carbonio	SOP-LAB135	< 0.05	µg/L
Benzolo	SOP-LAB135	< 0.05	μg/L
1,2-dicloroetano	SOP-LAB135	< 0.05	μg/L
Tricloroetilene	SOP-LAB135	< 0.05	µg/L
Bromodiclorometano	SOP-LAB135	0.07	µg/L
Toluolo	SOP-LAB135	0.30	µg/L
Percloraetilene	SOP-LAB135	< 0.05	µg/L
Dibromoclorometano	SOP-LAB135	0.07	µg/L
Etilbenzolo	SOP-LAB135	< 0.05	μg/L
m + p-xilene	SOP-LAB135	< 0.05	µg/L
o-xilene	SOP-LAB135	< 0.05	μg/L
Bromoformio	SOP-LAB135	0.26	µg/L
,2,4-Trimetilbenzolo	SOP-LAB135	< 0.05	µg/L
otale idrocarburi aromatici solubili (BTEX)	SOP-LAB135	0,30	μg/L
otale idrocarburi alogenati volatili	SOP-LAB135	0.65	μgίL
Desisopropilatrazina	SOP-LAB134	< 0.002	µg/L
,6-Diclorobenzamide	SOP-LAB134	< 0.002	μg/L
fetamitron	SOP-LAB134	< 0.002	µg/L
Desetilatrazina	SOP-LAB134	< 0.002	µg/L

Il presente rapporto di prova, riproducibile coto nella sua forma integrala, si inferiosi esclusi serrente alli campioneli sottopoticii a prova. Elato non può servire a scopo pubblicità o tare stato in caso di centestazioni ufficiali. Su ribrieste scon disponibili informazioni injuandanti i metodi sinalitri, La riproduzione parciale è vistata.

providente e stogio potoricità o tare siazo il casa di carinaziani ciricini. Su noneste sono di

Pagina 4 di 6

Laboratorio cantonale





Mirasole 22 telefono 091 8146 00 Bellinzona fax 091 8146

Rapporto di prova nº 16LA06233 del 17.10.2016

Descrizione	Metodo	Risultato	Unità di misura
Metossuron	SOP-LAB134	< 0.002	μg/L
Esazinone	SOP-LAB134	< 0.002	μg/L
Bromacil	SOP-LAB134	< 0.002	μg/L
Simazina	SOP-LAB134	< 0,002	µg/L
Ametrina	SOP-LAB134	< 0.002	μg/L
Cianazina	SOP-LAB134	< 0.002	µg/L
Desetil-ferbutilazina	SOP-LAB134	< 0.002	μg/L
Metribuzina	SOP-LAB134	< 0.002	μg/L
Metabenziaturon	SOP-LAB134	< 0.002	μg/L
Prometrina	SOP-LAB134	< 0.002	µg/L
Clortolurone	SOP-LAB134	< 0,002	µg/L
Terbutrina	SOP-LAB134	< 0.002	μg/L
Atrazina	SOP-LAB134	< 0.002	μg/L
Monolinurane	SOP-LAB134	< 0.002	μg/L
Irgarolo	SOP-LAB134	< 0.002	µg/L
soproturone	SOP-LAB134	< 0.002	µg/L
Diuron	SOP-LAB134	< 0.002	μg/L
Metobromurone	SOP-LAB134	< 0.002	µg/L
Metazacioro	SOP-LAB134	< 0.002	µg/L
Sebutilazina	SOP-LAB134	< 0.002	µg/L
Propazina	SOP-LAB134	< 0.002	µg/L
l'erbutilazina	SOP-LAB134	< 0.002	µg/L
inurone	SOP-LAB134	< 0.002	µg/L
Metolacioro	SOP-LAB134	< 0.002	μg/L
Nacior	SOP-LAB134	< 0.002	µg/L

present reports d'prins, riproducible soit miles aux forme risposit, al révisos esclusivament au d'arquivet autoposité aprox.

son publiches à sone publiches o ten ettro n'one d'ordresszoon ufficial, Sui-chausa sono étambiés innementer representel invelois annalés, La riproduction paraise à siste
Pagina 5 di 6

Laboratorio cantonale





Via Mirasole 22

telefono 091 814 61 11 fax 091 814 61 19

Rapporto di prova nº 16LA06233 del 17.10.2016

Descrizione	Metodo	Risultato	Unità di misura	
Totale erbicidi	SOP-LAB134	< 0.002	µg/L	

Giudizi

Limitatamente al parametri rivestigati. Il campione analizzato soddirfa i requisiti fissati per l'acqua potabile dall'Ordinanza del DFI concernente l'acqua potabile, l'acqua sorgiva e l'acqua minerale del 23 novembre 2005 (Stato 1º gensaio 2014) e quelli dell'Ordinanza del DFI sui requisiti igienici (DRI) del 23.11,2005 (Stato 1º gennaio 2014).

Note:

pH di equilibrio (pHs), indice di saturazione (IS) ed anidride carbonica aggressiva sono riferiti alla temperatura dell'acqua misurata in laboratorio.

Laboratorio cantonale

Responsabile di reparto

resente rapporto di prova, riproducibile solo nalla sua forma integrale, si riterisce esclusivamente all' campioneli sottopostoli a prova.

Io non può senvia a scopo pubblicità o fare stato in caso di contestazioni ufficiali. Su richiesta sono disponibili informazioni riquardanti i metodi analitici. La riproduzione parriale è vie

3.17

Pagina 6 di 6



Applications



SAWA - VILLA

Côte d'Azure, Eze - France

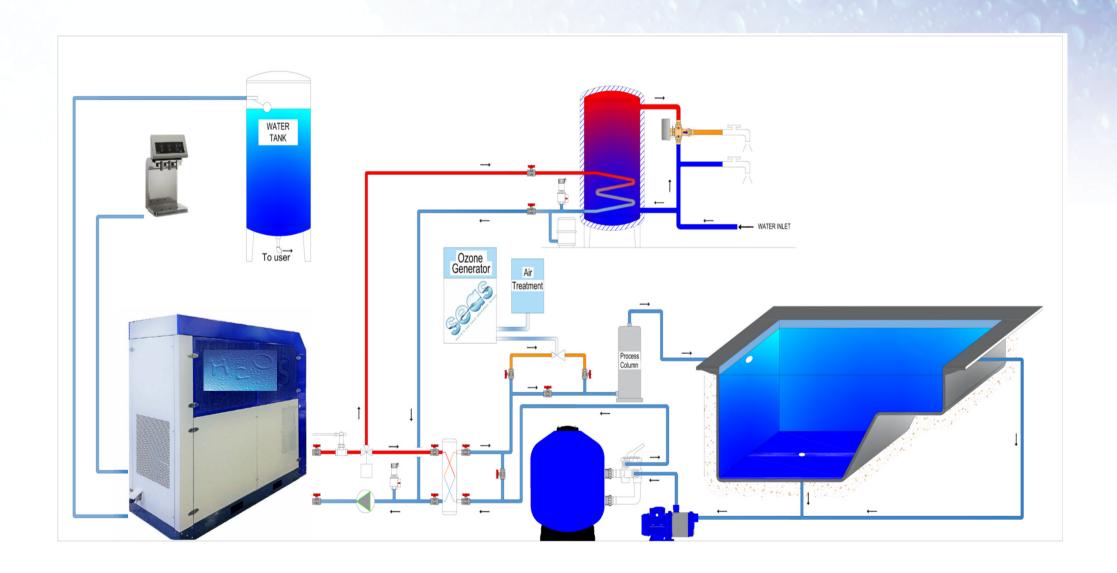
The system produces from 80 to 200 litres/day of drinking water, from air. The water produced will be use to drink as well as for showers and pools. With the same energy consumption, the system contributes to heat the water for sanitary use, ensuring more comfort.

Combined to Sawa 25, an ozone disinfection system for the pool, which will ensure the quality of the water making it hygienically pure.





SAWA - Villa



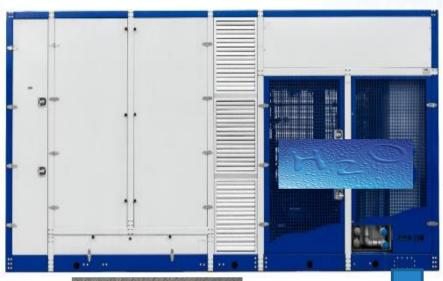


Sawa System Strengths for Isotonic Water Applications

- Constant water quality in Air To Water production;
- Drastic reduction of the cost for chemicals needed to purify the water, in comparison to tap water supply, for existing purified water treatment;
- Sawa water has higher quality than any other supplied water, even if compared to tap water treated with RO plants, for the intrinsic quality of ATW technology;
- Easy pipelines connections from la Sawa system to existing pharmaceutical plants;
- Possibility to connect Sawa Integrated System to existing air conditioning plants to obtain significant energy savings in hospital or sanitary spaces;
- Possibility to connect Sawa Integrated System to existing equipment to obtain significant energy savings in water heating;



Isotonic Applications and Sterilization













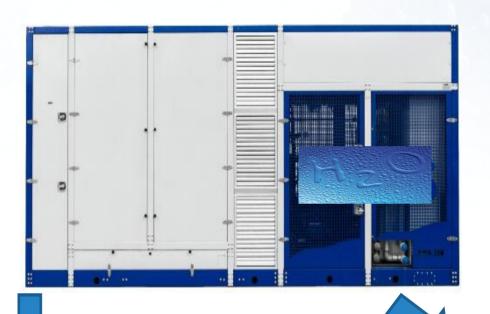


Modula System Strengths for *Ophthalmic* and *Inhalation Applications*

- > Availability of a mobile system for the production of purified water:
- Constant water quality in Air To Water production;
- Easy pipelines connections from Sawa system to existing pharmaceutical plants and Cleaning Room;
- Drastic reduction of the cost for chemicals needed to purify the water, in comparison to tap water supply, for existing purified water treatment;
- > Remote control of sensors and probes during production process;
- Possibility to connect Sawa Integrated System to existing air conditioning plants to obtain significant energy savings in hospital or sanitary spaces;
- Possibility to connect Sawa Integrated System to existing equipment to obtain significant energy savings in water heating;



Ophthalmic, Inhalation and Pharma Applications













HOTEL

BEST CLEAN, BEST ENERGY.







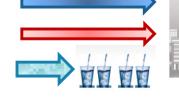


Hotel application

In 2015 integration between Sawa 250 and the existing hotel heating system (LPG Boiler), in order to provide heating for sanitary water and high quality drinking water for direct consumption, or for bottling.

- Location: Mexico, Villahermosa
- Hotel size: 154 double rooms
- Water consumption: 308 bottles of ½ litres a day (7 pesos/litre)
- Drinking water consumption: 1000 litres/day (1.4 pesos/litre)_{ntegrated system}
- Sanitary hot water consumption: average 430(
- 1 LPG litre cost: 7.47 pesos
- 1 electric kWh average cost: 0.8243 pesos

Water + heating + fresh air



Sawa, with the heating energy coming from the water production process, was estimated to wholly supply the sanitary water heating with no further energy consumption.

Moreover we studied an application for the fresh air coming from the Sawa machine



SAWA - Plus

- By using the systems for the large-scale use, the water production is more and more than billion of cubic meter of water a year
- Ensure a best quality water and best sanitary control for population
- With a fast return of investment
- With fast and easy installation and improvement
- With a big CO₂ saving (no water trasportation, no packaging needed)
- Achieve the target for a big reduction of plastic waste
- With a big energy saving
- Possible easy and fast local assembling machine



Thanks for your attention

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