



# solar Maximus

mobile, cost effective,  
solar powered, water purification

#### Water Treatment for the World

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**FREYTECH** INC.



Worldwide, there are thousands of companies specializing in solar power and even more specializing in water purification. There are, only a small handful of companies, though, specializing in "solar water purification" and fewer, still among this select group, that have truly mastered the rather complex engineering process with practicality, affordability and durability in mind. Freytech solar Maximus is a mobile, turnkey, solar powered water purification system. Designed, engineered and manufactured in the USA.

### solar Maximus is the solution

The Freytech solar Maximus Fresh Water (Max-FW) series, incorporates special tracking technology to rotate the solar panels and follow the sun rays from sun rise to sunset. This increases power generation by up to 40% stored in the zero maintenance, sealed, Gel/AGM battery packs. Increased power generation permits the system to continue operating for additional time at night. The solar Maximus series includes high end, protective, insulation material to withstand even the harshest of sand storms, golf ball size hail and other severe inclement weather conditions. This systems provides a surprising volume of fresh, clean drinking water which easily conforms to strict US Environmental Protection Agency (EPA) and World Health Organization (WHO) drinking water standards. From our smallest unit providing 47,600 Liters per Day (LPD) / 12,600 Gallons per Day (GPD) to our largest unit providing 181,500 LPD / 48,000 GPD, solar Maximus is our most efficient, long lasting solution for our thirsty world.



### solar Maximus [FW]

#### Standard Filtration

4 Log (99.99 %) reduction, removal and destruction of bacteria, virus and protozoan cysts (Giardia Lamblia & cryptosporidium).

#### stages in FW models:

- Strainers
- Pleated sediment - 20 micron washable and reusable.
- Granular Activated Carbon / KDF, 10 micron
- Pleated sediment, 1 Micron absolute
- Ultra Violet (UV)



Model	Flow Rate			Width		Length		Height		Weight	
	[lpd]	[gpm]	[gpd]	[mm]	[in]	[mm]	[in]	[mm]	[in]	[kg]	[lbs]
MAX-FW 6	40880	15	10800	2235	88	4114	162	2387	94	1270	2800
MAX-FW 9	49050	18	12960	2235	88	4114	162	2387	94	1361	3000
MAX-FW 16	136270	50	36000	2235	88	5791	228	2387	94	1451	3200

\*Flow rates will vary according to weather conditions.



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For fresh water sources requiring even stronger purification, we recommend the solar Maximus NF Series (MAX-NF), which includes additional levels of disinfection and purification technology over and above the Maximus Fresh Water Series. Incorporating, universally tested and accepted Nano Filtration technology, this series also provides an impressive volume of fresh, clean drinking water. From our smallest unit providing 12,700 liters a day (LPD) / 3,360 Gallons per Day (GPD) to our largest unit providing 50,650 LPD / 13,400 GPD, solar Maximus NF provides high volume, clean potable water from an exceptionally affordable and efficient, turnkey platform.

## solar Maximus [NF]

### Standard Filtration

4 Log (99.99 %) reduction, removal and destruction of bacteria, virus and protozoan cysts (Giardia Lamblia & cryptosporidium ), 0.001 micron absolute, decreases TDS (40-60%).

#### stages in NF models:

- Strainers
- Pleated sediment - 20 micron washable and reusable.
- Granular Activated Carbon / KDF, 10 micron
- Pleated sediment, 1 Micron absolute
- Nano Filtration
- Ultra Violet (UV)



Model	Flow Rate			Width		Length		Height		Weight	
	[lpd]	[gpm]	[gpd]	[mm]	[in]	[mm]	[in]	[mm]	[in]	[kg]	[lbs]
MAX-NF 6	11430	4.2	3020	2235	88	4114	162	2387	94	1270	2800
MAX-NF 9	13620	5	3600	2235	88	4114	162	2387	94	1361	3000
MAX-NF 16	38150	14	10080	2235	88	5791	228	2387	94	1451	3200

\*Flow rates will vary according to weather conditions.



Optional wind turbine, 400W/h



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## solar Maximus [BW]

For water sources containing salt levels below those normally encountered in the ocean, such as in some brackish wells and underground water tables, we recommend the Freytech solar Maximus Brackish Water Series (MAX-BW ). Incorporating, universally tested and accepted Reverse Osmosis technology, this series also provides an impressive volume of fresh, clean drinking water From our smallest unit providing 6,350 liters a day (LPD) / 1,680 Gallons per Day (GPD) to our largest unit providing 14,500 LPD / 3,840 GPD, solar Maximus BW systems represent the most affordable and efficient solution for communities presently drinking water from brackish/ salty water wells and other sources.

### Standard Filtration

4 Log (99.99 %) reduction, removal and destruction of bacteria, virus and protozoan cysts (Giardia Lamblia & cryptosporidium).



### stages in BW models:

Strainers

Pleated sediment - 20 micron washable and reusable.

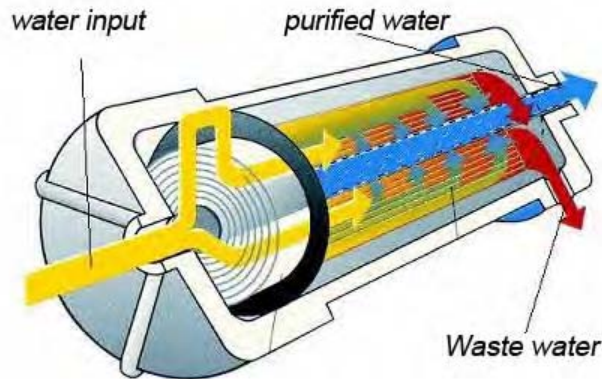
Granular Activated Carbon / KDF, 10 micron

Pleated sediment, 1 Micron absolute

Reverse Osmosis

Ultra Violet (UV)

Mineral Replenishing Injection Technology



Model	Flow Rate			Width		Length		Height		Weight	
	[lpd]	[gpm]	[gpd]	[mm]	[in]	[mm]	[in]	[mm]	[in]	[kg]	[lbs]
MAX-BW 6	5710	2.1	1510	2235	88	4114	162	2387	94	1270	2800
MAX-BW 9	8440	3.1	2230	2235	88	4114	162	2387	94	1361	3000
MAX-BW 16	11160	4.1	2950	2235	88	5791	228	2387	94	1451	3200

\*Flow rates will vary according to weather conditions.



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The Freytech Maximus Sea Water (MAX-SW) system resolves a prevalent, worldwide problem. Many coastal communities simply do not have the financial resources to justify and pay for much needed, industrial water desalination plants. For a mere fraction of the cost but with the same degree of reliability and durability, Freytech provides individual residences and entire communities alike, extraordinarily affordable drinking water from the sea. System includes all of our standard disinfection and purification technology as well as universally tested and accepted reverse osmosis (R/O) filtration. From our smallest unit providing 1,600 Liters per Day (LPD) / 420 Gallons per Day (GPD) to our largest unit providing 7,250 LPD / 1,920 GPD, Maximus SW series systems represent our most efficient and affordable solution for communities presently wasting precious financial resources shipping in expensive drinking water from distant locations.

## solar Maximus [SW]



### Standard Filtration

4 Log (99.99 %) reduction, removal and destruction of bacteria, virus and protozoan cysts (Giardia Lamblia & cryptosporidium).

### stages in SW models:

Strainers

Pleated sediment - 20 micron washable and reusable.

Granular Activated Carbon / KDF, 10 micron

Pleated sediment, 1 Micron absolute

Reverse Osmosis

Ultra Violet (UV)

Mineral Replenishing Injection Technology

Model	Flow Rate			Width		Length		Height		Weight	
	[lpd]	[gpm]	[gpd]	[mm]	[in]	[mm]	[in]	[mm]	[in]	[kg]	[lbs]
MAX-SW 6	1360	0.5	360	2235	88	4114	162	2387	94	1270	2800
MAX-SW 9	2990	1.1	790	2235	88	4114	162	2387	94	1361	3000
MAX-SW 16	5710	2.1	1510	2235	88	5791	228	2387	94	1451	3200

\*Flow rates will vary according to weather conditions.



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