

solar Captiva

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 Captiva is a mobile, turnkey, solar powered water purification system. Designed, engineered and manufactured in the USA.

solar Captiva is the solution

The Freytech solar Captiva Fresh Water (CAP-FW) Series provides an astounding volume of fresh, clean drinking water which meets and beats strict US Environmental Protection Agency (EPA) and World Health Organization (WHO) drinking water standards. From our smallest unit providing 40,800 liters per day (LPD) / 10,800 gallons per day (GPD) to our largest unit providing 231,000 LPD / 61,200 GPD, solar Captiva is the trusted and dependable solution for our thirsty world.

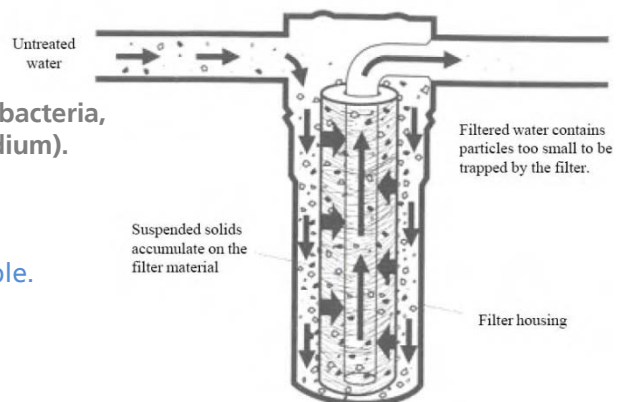
Standard Filtration

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)

solar Captiva [FW]



Model	Flow Rate			Width		Length		Height		Weight	
	[lpd]	[gpm]	[gpd]	[mm]	[in]	[mm]	[in]	[mm]	[in]	[kg]	[lbs]
CAP-FW 6	40880	15	10800	2235	88	4267	168	1702	67	771	1700
CAP-FW 8	49050	18	12960	2235	88	5842	230	2184	86	816	1800
CAP-FW 12	87210	32	23040	2235	88	5842	230	2184	86	998	2200
CAP-FW 24	231660	85	61200	2235	88	10972	432	2184	86	2630	5800

*Flow rates will vary according to weather conditions.



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solar Captiva [NF]



For fresh water sources containing higher levels of contamination, we recommend the Freytech solar Captiva NF Series (CAP-NF) which includes additional levels of disinfection and purification technology over and above the Captiva FW Series. Incorporating, universally tested and accepted Nano Filtration technology, this series also provides an impressive volume of fresh, clean drinking water which conforms to strict EPA and WHO drinking water standards. From our smallest unit providing 5,650 liters a day (LPD) to our largest unit providing 40,500 LPD, solar Captiva NF systems help resolve an expensive multitude of public health issues for a mere fraction of the price.



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]
CAP-NF 6	5678	2.1	1500	2235	88	4267	168	1702	67	771	1700
CAP-NF 8	11160	4.1	2950	2235	88	5842	230	2184	86	816	1800
CAP-NF 12	32700	12	8640	2235	88	5842	230	2184	86	998	2200
CAP-NF 24	40880	15	10800	2235	88	10972	432	2184	86	2630	5800

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solar Captiva [BW]



For water sources containing salt levels below those normally encountered in the ocean, such as brackish water located in some wells and underground water tables, we recommend the Freytech solar Captiva Brackish Water Series (CAP-BW). This system includes all of our standard disinfection and purification technology as well as universally tested and accepted reverse osmosis (R/O) filtration. This series provides fresh, clean drinking water which conforms to strict EPA and WHO drinking water standards. From our smallest unit providing 9,400 liters a day (LPD) to our largest unit providing 22,700 LPD, solar Captiva BW systems represent the perfect 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.

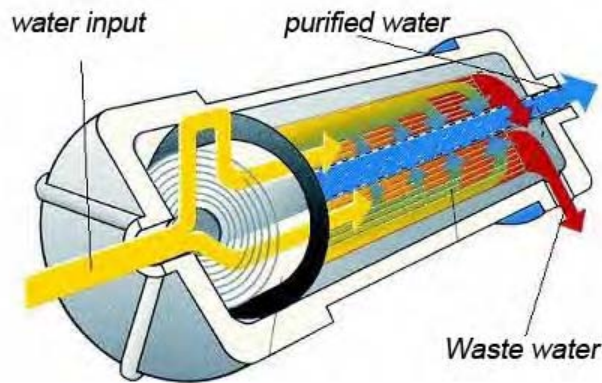
Granular Activated Carbon / KDF, 10 micron

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]
CAP-BW 6	5710	2.1	1510	2235	88	4267	168	1702	67	771	1700
CAP-BW 8	8440	3.1	2230	2235	88	5842	230	2184	86	816	1800
CAP-BW 12	11160	4.1	2950	2235	88	5842	230	2184	86	998	2200
CAP-BW 24	22600	8.3	5970	2235	88	10972	432	2184	86	2630	5800

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The Freytech Captiva Sea Water (CAP-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 desalinization plants. For a mere fraction of the cost but with the same degree of reliability, Freytech provides individual residences and entire communities alike, extraordinarily affordable, superb quality drinking water from the sea using only the power of the sun. It includes all of our standard disinfection and purification technology as well as universally tested and accepted reverse osmosis (R/O) filtration. This series provides drinking water from the ocean and conforms to strict EPA and WHO standards. From our smallest unit providing 1,360 liters a day (LPD) / 360 Gallons per Day (GPD) to our largest unit providing 8,500 LPD / 2,250 GPD, Captiva SW series systems represent the perfect economical and technical solution for communities presently wasting precious financial resources shipping in expensive drinking water from distant locations.

solar Captiva [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]
CAP-SW 6	1360	0.5	360	2235	88	4267	168	1702	67	771	1700
CAP-SW 8	2720	1	720	2235	88	5842	230	2184	86	816	1800
CAP-SW 12	4350	1.6	1150	2235	88	5842	230	2184	86	998	2200
CAP-SW 24	8440	3.1	2230	2235	88	10972	432	2184	86	2630	5800

*Flow rates will vary according to weather conditions.



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