

WATERS PROJECT TO CATER50S

THE FUTURE INTO THE PRESENT

Gianna Latini¹, Marco Adami¹, Nicola Pozzan², Fabrizio Casadei² AERO SEKUR, Via delle Valli - 04011 Aprilia (LT), Italy ECO RESEARCH, Via Friuli, 11 - 36015 Schio (VI), Italy

There is a long history of using water as a political or military target or tool, going back over 2,500 years. Water resources and systems are attractive targets because there is no substitute for water. Water resources are a prime infrastructure target for destruction or compromise by terrorism: since it's fluid, water can be used as a delivery vehicle to carry destructive agents throughout the ecosystem, water is a very important logistical support during military operation since water is fundamental for hydration of soldiers, vehicle maintenance, decontamination operations.

WATERS is a system can be used for protection, monitoring and water systems security. It's architecture allows to check the quality of the water through a sensor system placed in inlet and outlet of the disinfection system based on Advanced Oxidation Process (AOP) technology. AOP system is based on ozonisation, activated carbon filtration and UV process. The sensor system can provide constant monitoring against a possible contaminations of chemical, biological or radiological agent.

CATER50S is a transportable system that is able to produce water everywhere and in any geographical condition of moisture from the air and it is also suitable to operates in hostile environment. The system provides continuous supply of water in compliance to the legislations the regulates the drinking water process. The system guarantees a good production of water even in a very bad climatic condition (lower percentage of humidity and higher temperature).

Keywors: Water systems security; Advanced Oxidation Process ; Water purifying mobile system; Condensation technology



WATERS PROJECT

World Patent Technology

Project Concept







superficial waters and is suitable to operate in a hostile environment (sabotage water resources chemical weapons use).



The system works through the condensation of moisture from the air. The module offers a good production yield of water even with very low percentage of humidity





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Parachutable with PAS				availability of surface water
(Precision				Operationa
Airdrop System)				autonomy
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(LED)	Power 5 kW
Alkalinity, pH and mineral salts corrector	Flow rate = 2 l/min. Autonomy = 200 lt
Air filtration	DELTA CELL95 = class F9 10 μm HEPA H13 = 10 μm Absolute filter = 0.2 μm
Total Weight	2500 Kg
Dimension	W x D x H = 4.5 meters (including trailer hitch) x 1.4 mt x 2.3 mt (exhaust)
Generator	
Electric power	18.8 kW @ 3000 rpm
Electric power	18.8 kW @ 3000 rpm 230 to 380 volts AC and 24 V
Electric power Power supply	18.8 kW @ 3000 rpm 230 to 380 volts AC and 24 V DC, 20 Ah
Electric power Power supply Fuel tank	18.8 kW @ 3000 rpm 230 to 380 volts AC and 24 V DC, 20 Ah 50 liters
Electric power Power supply Fuel tank Noise level	18.8 kW @ 3000 rpm 230 to 380 volts AC and 24 V DC, 20 Ah 50 liters <65 dB @ 7 mt



Web sites: <u>www.mastercbrn.com</u> E-mail : <u>info@mastercbrn.it</u>

