

Séon DG Data Sheet

Model – WSDGT08000

Mobile Disinfectant Generator System

Trailer Mounted

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Introduction

Séon DG is a trailer mounted or stand-alone disinfectant generator that enables the production of a powerful, non-hazardous disinfectant **Anolyte Disinfectant Solution (ADS)** from clean, fresh water direct at source using '*Séon Water Purification Technology*'.

ADS creates logistical resupply resilience whilst reduces cost and risk in the delivery of drinking water and disinfectant requirements in remote locations as a direct replacement to the conventional use of the dangerous chemical chlorine.

- ✓ Eliminates resupply requirement of hazardous chlorine.
- ✓ 300 times the killing properties over chlorine.
- ✓ Use for water purification, hand sanitiser, surface disinfectant
- ✓ Only consumables are fresh water, salt and electricity.
- ✓ 300 times the killing properties over chlorine.
- ✓ Will kill dangerous virus including Anthrax and break down bio-film.
- ✓ Fast set up with minimal training required.

Séon DG, when used in conjunction with systems from the **Séon** family of water purifiers, helps create a full **Deployable Water Supply System (DWSS)**.

Séon DG requires minimal training and can be fully operational within just 10 minutes of set up time. Simply fill from filtered, fresh water source, power up the on-board petrol generator and produce on demand up to 960 litres every 24 hours of the non-toxic disinfectant.

'Séon Water Purification Technology' Tough, reliable, high quality mobile water purification systems designed to withstand the harshest of conditions to produce fresh, drinking water direct from source.



Construction and Use

Séon DG was developed utilising proven technology to provide the end user with a robust, durable and simple to use disinfectant generator system.

The user requires minimal interaction with the machine or even access to its components ensuring ease of use and reliability.

Operation is simple: *Connect the delivery hose from **Séon UVT** (or any other filtered fresh water supply) and start filling the holding tank.*

Switch on the Séon DG system.

ADS is now being produced.

Switch on the ADS delivery pump and fill containers as required.

Product ADS can now be used in drinking water dosing systems for drinking water purification or neat as a powerful system cleaner for countless sanitising and disinfecting requirements.



Using ADS to disinfect drinking water in a water can



What is Anolyte Disinfection Solution (ADS)?

Conventionally, high volume drinking water supply is delivered with sodium hypochlorite (chlorine) added to prevent cross contamination before consumption and to extend its shelf life. To clean out water systems, a higher strength chlorine or even hydrogen peroxide is used to be effective.

Both of these chemicals are potentially extremely hazardous for human handling and to the environment. They also require storing and re-supply to ensure an uninterrupted delivery of drinking water to the military force via a potentially already stretched supply line in the theatre taking up valuable space for other valuable items such as medical or munitions.

Hypochlorous acid (**ADS**) is a safe alternative to chlorine and hypochlorite. Hypochlorous acid (**ADS**) is naturally produced by the white blood cells of all mammals. It plays an important role in a mammal's immune system for killing pathogens through oxidization and chlorination.

Hypochlorous acid (**ADS**) can also be artificially produced through a process called electrolysis. Electrolysis is a technique that uses a direct electric current (DC) to drive an otherwise non-spontaneous chemical reaction through an electrolysis cell utilising a mild sodium chloride solution (brine) and softened water combination to produce **anolyte disinfectant**. The environmentally friendly solution can dissipate back to its chemical elements namely salt and water on discharge.

Hypochlorous (**ADS**) is a powerful oxidant, is Biocidal effective and rapid killing time (300 times killing power with much lower free chlorine concentration than Sodium Hypochlorite). Can destroy mycobacterium, fungi, viruses, bacterial endospores, gram-positive/negative bacteria, including all pathogens currently considered high risk (i.e. MRSA, Clostridium difficile, Escherichia coli, norovirus, H5N1 avian flu, H1N1 swine flu, HIV, polio virus, Legionella, right up to and including Anthrax).



Technical Data

Power

Power supply 230v AC

Total Power 1.8kw

Power provided by onboard, petrol generator or any other suitable power outlet.

Included equipment

Automated water softener.

Integral 12VDC, waterproof transfer and delivery pumps.

ADS Delivery Hoses

Digital readouts for simple monitoring of system operation.

Automated start on stopping of tank filling operation minimising system supervision.

ADS Properties

Free Chlorine 500ppm

ORP* >850mv (*ORP = Oxidising Reduction Potential)

Drinking water dosing Recommended @ 0.5% with ORP >600mv

Comparable power 300 x that of Sodium Hypochlorite

Non-hazardous

Production 60 litres per hour max

Overall Physical Data In Trailer

Length 2920 mm

Width 1425 mm

Height 2100 mm

Weight – Soft Canopy 940 kg*

Weight – Hard Canopy 1020 kg*

*TBC



Trailer/Chassis

The Séon DG is mounted and secured within the Wananchi **ATT18**, all terrain overland trailer. The trailer features twin, box section tubular steel spars with a fully enclosed, plated steel tub which offers strength and durability for long life.

The trailer is equipped with time proven reliability and easy maintenance R-Flex suspension as standard with lunette eye coupling, hydraulic over-run braking and manual parking brake. Alternative suspension and coupling can be fitted upon request.

Equipment is chassis mounted within the trailer and boasts vibration and shock isolation using air-bag and rubber mountings for maximum protection. This method also enables the system to be purchased in just its chassis for static applications.

Trailer options offer environmental protection with either a UV resistant canvas canopy or a solid aluminium canopy with gas strut hatches. These methods offer quick, ease of access to all controls of the water purification system.

Separate data sheet available for the Wananchi ATT-18 All-Terrain Overland Trailer. Please enquire for details.



Ordering

We understand that a remote operational environment can be as individual as the teams working in them. Equipment can be tailored to suit each and every situation, from hose connections, power supply, flow output rates to the trailer the system itself is housed in.

Wananchi can build specific client maintenance training, parts replenishment and maintenance schedules specific to individual project requirement whilst factoring in water source, production volumes and the operational environment.

Séon Family

Wananchi manufacture a full range of mobile water purification systems to tackle multiple applications including man portable, trailer mounted and containerised options for both fresh and seawater sources.

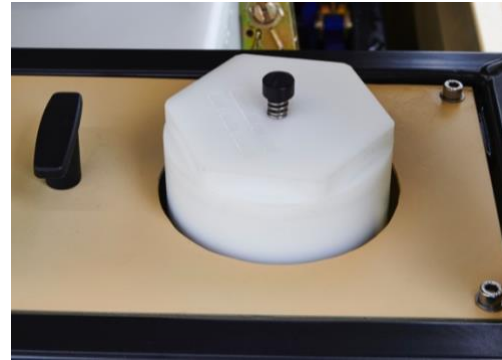
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Contact the team at Wananchi now to discuss your water purification requirements

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MOBILE WATER PURIFICATION

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