

## Séon DG Data Sheet

Model – WSDGT08000

Disinfectant Generator System  
Trailer Mounted or Stand-Alone

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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 **ANK-Neutral Anolyte (ANK)\*\*** from clean, fresh water direct at source using '*Séon Water Purification Technology*'.

**ANK** 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.

- ✓ Non-Toxic and hypoallergenic
- ✓ 80-120 times more powerful than sodium hypochlorite
- ✓ For water purification, system disinfection, biological decontaminant
- ✓ Only consumables are fresh water, salt and electricity.
- ✓ Option for Trailer Mounted or Stand-Alone chassis
- ✓ 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 1,800 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 UV** (or any other filtered fresh water supply) and start filling the holding tank.*

*Switch on the Séon DG system.*

*ANK is now being produced.*

*Switch on the ANK delivery pump and fill containers as required.*

*Product ANK can now be used in drinking water dosing systems or neat as a powerful disinfectant for countless other sanitising requirements: **decontamination, wound washing, food washing, system and surface cleaning.***



***Delivering ANK disinfectant from Séon DG***



## What is ANK-Neutral Anolyte (ANK)

Conventionally, drinking water supplies are 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 (bleach) is used to be affective against the multitude of dangerous pathogens, some of which are resistant to chlorine.

Both chlorine and bleach are extremely toxic and corrosive to humans and the environment. They also require controlled storing and re-supply to ensure an uninterrupted delivery of drinking water via a potentially already stretched supply line in a war theatre or disaster zone.

Hypochlorous acid (**ANK**) is a safe alternative to chlorine and bleach. Hypochlorous acid (**ANK**) 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 (**ANK**) 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 acid (**ANK**) is a powerful antimicrobial that proves a rapid killing time (it has 80-120 times the killing power using a lower free chlorine concentration than Sodium Hypochlorite). It 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, Anthrax and currently COVID-19.



*Using ADS to disinfect drinking water in a water can*



## Technical Data

### Power

Power supply 230v AC  
 Total Power 1.2kw  
 Power provided by onboard, petrol generator or any other suitable power outlet.  
 Integral 12VDC, waterproof transfer and delivery pumps.

### ANK-Neutral Anolyte Properties

Free Chlorine 100 to 500ppm  
 ORP\* >850mv (\*ORP = Oxidising Reduction Potential)  
 Drinking water dosing Recommended residual @ 0.5ppm with ORP >650mv  
 Comparable power 80 to 120 times that of Sodium Hypochlorite  
 Contact Time 30 seconds @ 500ppm to destroy known pathogens.  
 Salt consumption 5-7g per litre of ANK (9-12.6kg per 24 hours continuous operation)  
 Material safety Non-toxic and Hypoallergenic  
 Production 90 litres per hour max (requires 4 hours rest every 20 hours operation)

**\*\*ANK is produced by the onboard Enviolyte® system; full product validation claims upon written request. Séon DG disinfectant systems are commissioned by Enviolyte® trained engineers.**

### Dimensions

	Trailer Mounted	Skid Mounted Only
Length	2920 mm	1770mm
Width	1425 mm	1510mm
Height	2100 mm	1170mm
Weight - Wet	1210 kg	750kg
Weight – Dry	690kg	230kg
Rated Gross Trailer Weight		1800 kg

*Trailer with soft canopy option, add 110kg for hard canopy.*

### Certifications

Enviolyte® system conforms to EC98/8 and EC03/2032 for placing of biocidal liquids on the market.  
 Enviolyte® system NSF/ANSI 61 certified.  
 Enviolyte® is approved and listed in the Article 95 of BPR 528/2012 of the European Chemical Agency.  
 Enviolyte® anolyte and catholyte claims proven with tests conducted by the National Industrial Fuel Efficiency Service Ltd. (NIFES)  
 UKAS approved testing of viable colony counts on contaminated water.  
 Enviolyte® anolyte and catholyte approved and registered on New Zealand MPI register.



**Filling Séon DG with water purified by Séon UV**



## 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 enables the system to be purchased without trailer for stand-alone 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.

Visit our website [wananchi-uk.com](http://wananchi-uk.com) to learn more

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

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MOBILE WATER PURIFICATION

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