

Power used by the Electrode Cell

Power consumed (start-up):
 Power consumed (in operation):

Nominally 1.30 amp @12 volts:
 20 amp-hours (15 hour initiating cycle)
 0.8 amp-hours per flush (approx 40 mins)

Nominal Capacities:

Electrode Cell Tank:
 Holding Tank:

Approx 7.5 litres
 Approx 60 litres, 85 litres, 115 litres or 125 litres

Tank Construction:

Polyethylene: minimum of 8mm thick

Oxidizing agent:

Hypochlorous Acid (0.3 – 0.5% Chlorine – not classified as 'Dangerous Goods')

Weight (approx) – full:

Electrode Cell Tank:
 Holding Tank:

10 kg
 60l: 70 kg, 85l: 100kg, 115l: 130kg or 125l: 140kg

Dimensions (approx):

Electrode Cell Tank (rectangular: H x W x D):
 Electrode Cell Tank incl. fittings, pump, etc
 Holding Tank, 60l (cylindrical: Dia. x Length):
 Holding Tank, 60l, incl. feet, fittings, etc
 Holding Tank, 85l (flat-top: H x W x Length):
 Holding Tank, 85l, incl. feet, fittings, etc
 Holding Tank, 115l (oval cyl: H x W x Length):
 Holding Tank, 115l, incl. feet, fittings, etc
 Holding Tank, 125l (flat-top: H x W x Length):
 Holding Tank, 125l, incl. feet, fittings, etc

300mm H x 200 W x 200 D
 500mm H x 300 W x 300 D
 400mm D x 600mm L
 550mm D x 720 mm L
 300mm H x 400mm W x 1200mm L
 450mm H x 400mm W x 1500mm L
 700mm H x 400mm W x 600mm L
 850mm H x 400mm W x 720 mm L
 400mm H x 400mm W x 1200mm L
 550mm H x 400mm W x 1500mm L

Person Capacity:

A 60 litre system is suitable for live-aboard use by up to 4 persons under normal conditions.

More Information:

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SANI-TANK



GRADE C MARINE SEWAGE TREATMENT SYSTEM

The **SANI-TANK Marine Sewage Treatment System (MSTS)** is a simple yet effective Grade C toilet waste sanitation system that is ideally suited to the bareboat charter industry.

It produces a strong, safe oxidising and disinfecting agent from saltwater and uses that chemical to deodorise, disinfect and oxidise marine toilet wastes.

Clean seawater provides an excellent source of salt and, when the Electrode Cell Tank is full of seawater and the system turned on, a ceramic/titanium electrode reacts with the seawater to produce Hypochlorous Acid - a powerful chemical that is ideal for killing bacteria.

When an on-board toilet is activated, the macerated waste is pumped into the combined treatment/holding tank of the **SANI-TANK**.

At the same time, a small amount of saltwater is pumped into a separate Electrode Cell Tank. The incoming saltwater displaces a similar amount of Hypochlorous Acid, which also flows into the **SANI-TANK**. It mixes with the treated and untreated effluent, and oxidises the waste material.

When the Holding Tank is approximately 80% full, a light comes on and a buzzer sounds to warn the operator that the system is reaching capacity and needs to be discharged.

The **SANI-TANK** is available in pre-packaged kit form with a 60 litre, 85 litre, 115 litre or 125 litre tank. Other tank sizes and shapes are available to specific order.

In general, due to the limited amount of low-concentration chlorine being introduced to the tank, the treated effluent in the Holding Tank should be almost chlorine-neutral after several hours without use, and should have no negative effects on the environment when discharged.

However, we do recommend that the Holding Tank effluent is discharged into the environment only when the vessel is underway or when the vessel is positioned/anchored in an area of strong tidal flow.

The Hypochlorous Acid used in the **SANI-TANK** system, unlike commercial Hypochlorite Solution e.g. liquid pool chlorine, is relatively safe to handle and is not classified as being a 'dangerous good', an important point in some marine insurance policies. It readily reverts to its original safe components once used and is environmentally-friendly.

The **SANI-TANK MSTS** Electrode Cell operates at around 1.3 amps per hour at 12 volts, which means that the Cell can be powered by a suitable solar panel, except for when the toilet and discharge pumps are working. A 24 volt version of the **SANI-TANK MSTS** is also available.

We also manufacture and market the **AQUA-SAN II** Marine Sanitation Device targeted at the environmentally-conscious private vessel owner and the **AQUA-MARE Grade A** Marine Sewage Treatment Systems for commercial charter vessels or larger recreational vessels.

Please contact Barry on 0411 598 306 for further information about these products.

All NWS-manufactured Marine Sanitation Systems are designed to comply with the existing Queensland Government legislation for the treatment of on-board toilet waste.

Please note that areas where discharge of any form of treated toilet waste is **NOT** allowed include all marinas, boat harbours, canals, rivers and creeks, and some designated smooth water areas. In addition, in Queensland, discharge is not permitted within 926 metres of reefs, aquaculture resources e.g. oyster leases, or people in the water.

The **SANI-TANK** system is being constantly re-engineered to ensure that it continues to satisfy the clean-water proposals being considered by various State Water Authorities for cleaner Australian waterways and for the retention of waste on board until discharge is permitted.

Tests undertaken by Queensland Health (a NATA approved laboratory) have confirmed that the **SANI-TANK M.S.T.S.** kills 99.8% of bacteria and many viruses within 30 minutes of introducing toilet waste into a working system.

There is no better way to treat effluent and keep our waterways clean than with a **SANI-TANK** toilet waste disinfection and holding tank system. It provides complete but simple control of the on-board waste treatment process and pump-out operation, allowing an untrained operator to readily comply with legislative discharge requirements.

