

WALLACE & TIERNAN 'OSEC-NXT' ONSITE LIQUID CHLORINE GENERATION SYSTEM MANLY 'ANDREW BOY CHARLTON' AQUATIC CENTRE



The Wallace & Tiernan OSEC-NXT 60 kg/day on-site chlorine generation system in use at MUR Holsworthy Army Base and the OSEC-NXT 24kg/Day system installed on the new Manly Aquatic Centre's indoor pools in Sydney have the following key features:-

- **World's most advanced** membrane type, on-site chlorine generator (OSEC-NXT uses 4th generation membrane electrolyser technology from Wallace & Tiernan, Germany)
- **Lowest salt consumption** of any unit (1.7kg salt per 1kg neat Available Chlorine produced) – the closest competing system uses 30% more salt
- **Low electrical consumption** of 4.5kWH per 1kg neat Available Chlorine produced
- **Constant & consistent 2.5% strength hypochlorite solution** produced (strongest & most consistent of any system) giving maximum storage life and consistent dosing accuracy
- High solution strength and low salt consumption mean that **minimal salt is dosed into the pool**, giving the equivalent water quality of a chlorine gas pool. **Chlorides are reduced** so that the risk of stainless steel corrosion to pool plant is minimised
- 'OSEC-Salin' or equivalent **salt tablets are easier and more pleasant to handle** than granular salt and pricing is similar for the locally supplied version (approx \$950 +GST per tonne)
- All salt is used up during the process, so there are **no waste products**
- **Cooling water can be used as already warmed pool makeup water** into the balance tank(s), **saving on energy, heating costs and water** for the Aquatic Centre
- Simple to use automatic dilution make-up system for emergency dosing of liquid chlorine from delivery drum, at similar strength to pool via system dosing pumps
- Service support is provided by **German factory trained Evoqua/Wallace & Tiernan Australia technicians** in Australia, based in Windsor NSW