Use one Ultra-Pure system to disinfect seawater intakes, feedwater pre-treatment including for RO membranes, and finished stock; without generating disinfection by products (DBP).

Seawater intakes. Prevent macro fouling by dosing Chlorine Dioxide direct to seawater intakes. Low chemical concentration and no DBP minimise environmental impact. Scotmas Reactive Dosing™ takes account of unique patterns at the dosing location and ensures the minimum level of biocide is used to remove the target organisms.

Feedwater Pre Treatment. Pre treatment with chlorine or other biocides requires high chemical concentrations. Potential impacts include increased corrosivity and creation of toxic DBP, which can be multiplied by disinfectant reapplications further down the treatment train. Pre treatment with Ultra-Pure Chlorine Dioxide is at very low concentration, does not create DBP and minimises corrosivity risk.

Reverse Osmosis Membranes. Studies show that 20-30% of SWRO plant OPEX is due to biofouling of membranes, chlorine rapidly degrades membranes and cannot be used. Apply Ultra-Pure Chlorine Dioxide at the membrane to prevent biofilm build up, without degrading membrane, preventing biofouling giving reduced energy consumption, increased membrane life and lower maintenance costs.

Finished Water Stock. Disinfect finished water stocks prior to entry into distribution network. Unlike chlorine, disinfection throughout the treatment train with Chlorine Dioxide does not result in cumulative multiplication of disinfection by products and potential breach of WHO guidelines.

Dose multiple locations. One Bravo Ultra-Pure generation system will dose all applications via a dosing manifold, reducing TOTEX.
Scotmas are internationally renowned, specialist manufacturers of Chlorine Dioxide generation systems with more than 30 years’ experience in the field. Employing over 50 staff worldwide, Scotmas are solely dedicated to Chlorine Dioxide technology and can provide all required chemical / process engineering, chemistry, microbiology, and application-specific technical support needed for successful project execution, in conjunction with strong local civil engineering and service delivery partners.