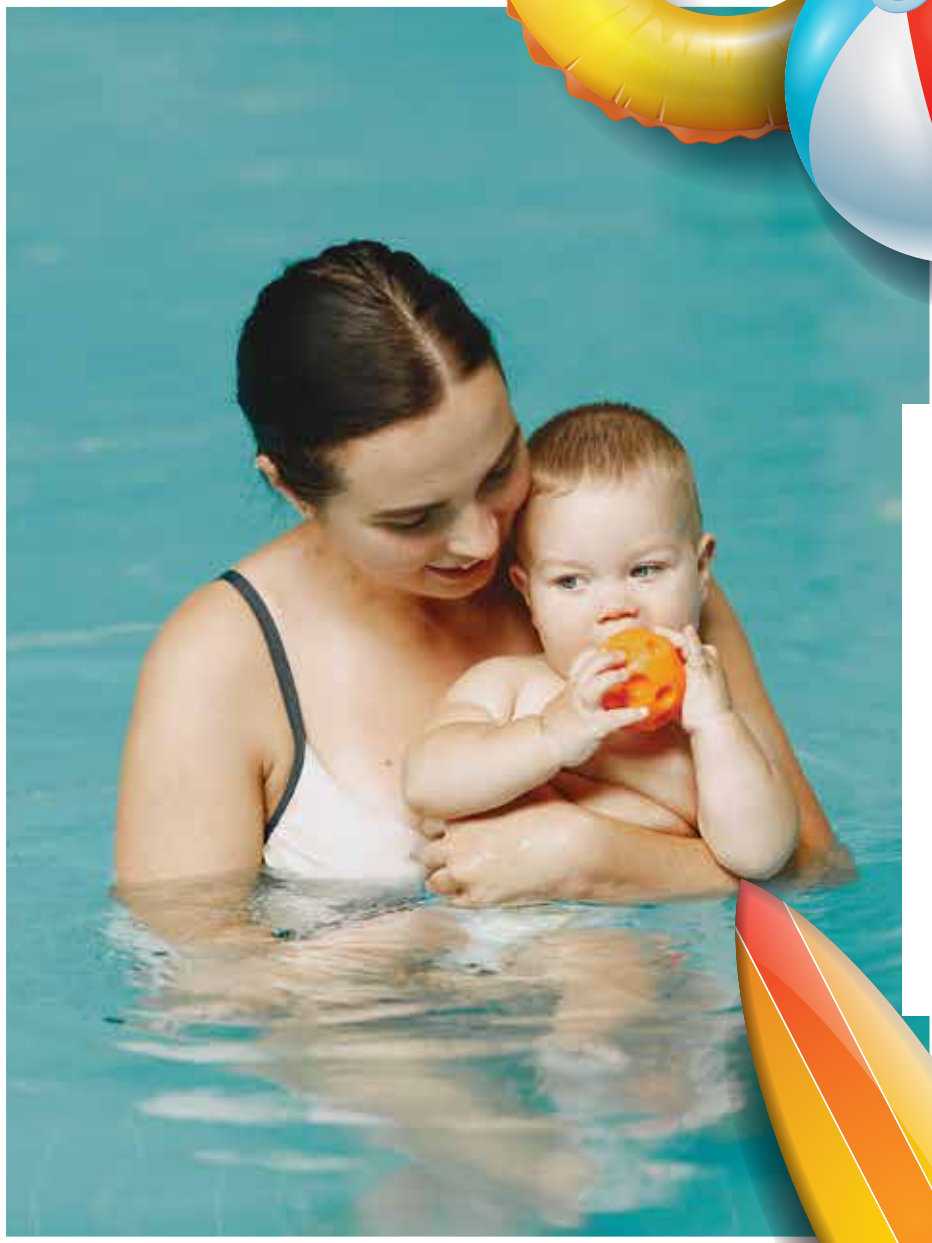
InNow
Innovation Now

Hydro-dis
a better way

Chemical Free – Chlorination System

- A single swimmer may add 1,000,000 to 1,000,000,000 microorganisms in the pool.
- Disinfectants like chlorine and TCAA-90 are dded in swimming pools to keep water clean.
- Addition of chlorine in swimming pool causes skin rashes, eye irritation and has negative impact on human health due to cancer caus-ing byproducts.

Hydro-dis offers
chemical free & hassle
free disinfection of
Swimming Pools



SANITIZATION

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★ Convenience & Comfort ★

Forget about mixing, measuring or messing around with liquid or tablet chlorine or TCAA90. Say goodbye to red eyes, itchy skin and foul chemical odors. Now there's an easier, more efficient, cost-effective and most reliable way to satisfy 100% of your pool and spa sanitization needs – and enjoy water that's always safe, clean, crystal clear and luxuriously soft.

Fully automated for treatment of potable and wastewater with minimal maintenance

Low power usage allowing solar/in-situ/wind powered options for emergency application

Self-cleaning giving longer service life and reduced operating and running costs.

Reduces Environmental Footprint associated with the manufacture of chemicals and their transport

Cell Model	Chlorine Generation (gm/hr)
U 400	40
U 300	30
U 200	20
U 100	10

A Unique Technology

The Hydro-dis® system is a unique water disinfection technique that uses the electro-catalytic break down of water to instantly destroy water borne pathogens including bacteria, viruses and algae, simultaneously converting chloride ions into chlorine leaving a measured residual disinfection in the treated water giving a secondary disinfection ensuring sustained safety. The Hydro-dis® system is specifically designed to be energy efficient, allowing isolated and remote applications to utilize on-site generated power from solar, wind or pipePower, if required. As there are no moving parts, minimal maintenance and operator input is required. Unlike many other disinfection techniques the Hydro-dis® system has recyclable and reusable componentry, therefore reducing landfill and also minimizing the frequent

Dual Disinfection

During the Hydro-dis® process, Hydroxyl Radicals (a short life powerful oxidizing sanitizer) are generated from the water itself destroying microorganisms and instantly providing a primary disinfection. Produced simultaneously with the Hydroxyl Radicals is a measured concentration of chlorine present as hypochlorous acid, also a powerful sanitizer, to produce a residual disinfection in the water. This residual disinfection protects water circuits by destroying bacteria, algae, viruses and fungi therefore protecting the water circuit from the formation of biofilms and algal deposits commonly present in water. This residual protection can persist within the treated water for several days. The Hydro-dis® technology is an approved dual disinfection system under AS/NZ Standard 3666 and the Public and Environmental Health (Legionella) Regulations.

Hydro-dis®

Low Maintenance Design

The Hydro-dis® system can be fully automated significantly reducing maintenance inputs. Through its innovative design the cell is constantly being cleaned by the action of the water passing through the cell.

Self-Cleaning Technology

The development of the self-cleaning design has enabled Hydro-dis® to increase the operational efficiency of the cells and ensure cell life is extended. The combination of improved efficiency & long service life of the cells significantly reduces the lifecycle cost of the equipment

Disinfection	Hydro-dis®	Liquid Hypo	Ultra Violet	TCCA-90
Disinfecting Effect	Rapid disinfection & Algae removal	Rapid disinfection & limited Algae control	Disinfection only	Rapid disinfection & limited Algae Control
Cost of Operation	Low / Low maintenance cost	High	High	High
Residual Effect Duration	Hours to Days	Few Hours	None	Moderate
Safety	Very Low, No chemicals used	High Risk	High Risk	Hazardous
Environmental Impact	None	Negative Impact	Low	Negative Impact
Additional Side effects	Legionella mitigation No organic chlorine derivative produced	Generateschloramines and cancer causing compounds	High cost due to frequent lamp replacements	Generates cancer causing compounds