

dioxide

PACIFIC



CircleClear®

Pool Water Management System

For the Treatment and Recovery of
Swimming Pool Backwash Water

SAVE OUR WATER

There is now no need to waste backwash water from swimming pools. While it is necessary to backwash to remove suspended solids and salts, the water can be treated and recycled back into the pool. The CircleClear® system can recover up to 75% of this valuable resource.

LIFE CYCLE COST SAVINGS

Even though the cost of make-up water for pools can be low, it is the value of the water resource we should be looking at. The cost to treat the pool water with heat, chemicals and filtration and the cost to treat the dumped backwash water should also be factored in. What about the cost to the environment for wasting millions of litres (gallons) of water per year? If all of these costs and risks are added together over the lifetime of a pool installation, the CircleClear® plant installation is fully justified.



RECOVER BACKWASH WATER

The CircleClear® swimming pool water management system treats backwash water to a suitable quality for recycling back into the pool. The majority of this previously wasted resource can be recovered.

HEAT ENERGY RECOVERY

Along with backwash water recovery, the heat energy resident in this water is also recovered.

MULTIPLE BARRIER TREATMENT

The CircleClear® system uses world's best water treatment technology for micro-organism control through multiple barriers. These include: coarse filtration; multi-media; Ultrafiltration and reverse osmosis. The final outcome is greater than 8 log reduction pathogens with extremely low risk.

TDS CONTROL

The CircleClear® control system controls TDS in all pools to a set value.

FULLY AUTOMATIC OPERATION

Control of the plant is automatic and does not require operator attendance. Operator involvement is limited to chemical top-ups and instrument calibrations.

CENTRAL CONTROL – DATA LOGGING – REMOTE ACCESS

The CircleClear® plant is PLC controlled with touchscreen operator interface. Data from all instruments is logged on a compact flash card. Remote monitoring and control is enabled.

PROJECT QUALITY CONTROL

Dioxide Pacific has streamlined the management of the CircleClear® project from design through to installation to provide a quality outcome. The plant is designed in 3D, built and pre-commissioned in our workshop then disassembled for delivery to site and installation.

PLANT MAINTENANCE

The CircleClear® plant can be offered with scheduled preventative maintenance contract to ensure reliable operation and long equipment life.

MODELS

Model 1 Capacity: 1 m³/hr (6,340 gpd) purified water

Model 2 Capacity: 2 m³/hr (12,680 gpd) purified water



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