

*Hydro***FLOW**®

WATER TREATMENT FOR THE HOTEL INDUSTRY



HYDROPATH Technology | The home of *Hydro***FLOW**®

LIMESCALE PROTECTION FOR THE HOTEL INDUSTRY



Hotel operation leads to a wide array of water treatment challenges, from keeping bathroom fittings free of unsightly limescale deposits to maintaining the efficiency of hot water and cooling systems, to keeping swimming pool water clear and pleasant to use.

HydroFLOW[®] electronic water conditioners offer a chemical-free approach to treating both existing and new limescale in heating and cooling systems, and can help address biofouling and reduce wasted water in both cooling towers and swimming pools. They are an alternative to water softeners with the benefit of no ongoing replenishment costs, and the treated water remaining potable.

HydroFLOW[®] protects against limescale by transmitting its unique cluster-forming signal through the system in order to protect shower, taps and fittings (making them easier to clean) as well as boilers, heat exchangers and cooling towers. HydroFLOW[®] uses non-chemical flocculation to help filters work more effectively, improving water quality and reducing water wasted in backwash and blowdown.



CASE STUDY

MARRIOTT KOOLINA BEACH CLUB, OAHU, HAWAII, USA.

While operating well, the cooling towers of the Koolina Beach Club Marriott hotel needed expensive treatment with antiscalant and biocide, as well as significant maintenance and blowdown. The water supply contained 200ppm calcium carbonate and 50ppm silica. A unit was fitted to the 14 inch (350mm) diameter pipe feeding the chillers.

RESULTS

Chemical use was gradually reduced, with anti-scalant and anti-corrosive completely discontinued after 1.5 months, and biocide reduced by 75% after 2.5 months. Limescale accumulation stopped as soon as HydroFLOW[®] was installed and existing scale and biofilm deposits were gradually removed.

Blow down was reduced by 50% and total bacteria counts continued to be minimal, while the efficiency of chillers was maintained. The reduction in chemicals and blow down led to an ROI of 1 year.



Baseline measurement with 100% biocide (Under 1,000 CFU)

Biocide chemicals kept CFU levels at a minimum

After 1.5 months with 50% less biocide (between 1,000 to 5,000 CFU)

Slight raise in CFU count as HydroFLOW began to remove biofilm from the cooling tower

After 3 months with 75% less biocide (under 1,000 CFU)

CFU count reduced back to under 1,000 CFU

OUR CUSTOMERS SAY

“The risk of biological contamination (such as Legionella) is greatly reduced with a clean water system. My doubts about the functioning of the HydroFLOW[®] were dispelled and I was confident 100%”

Managing Owner, Plaza Hotel, Belgium.

“The effectiveness of HydroFLOW[®] devices installed in the pool is remarkable. The water is much softer with a chlorine level at the lowest possible while respecting regulations! The water is clear without adding flocculant and looks good enough to drink. The bacteriological analyses are very satisfactory! We are using very low salt and the water has never looked better. I am very satisfied on all points!”

Manager, VILLA ROSA, France

RESULTS

ANTI-SCALANT ELIMINATED & BIOCIDES REDUCED BY

75%



CHILLER EFFICIENCY MAINTAINED



BLOW-DOWN REDUCED BY

50%

DESIGNED FOR

- NEW LIMESCALE
- EXISTING LIMESCALE
- IMPROVED FILTRATION
- REDUCED BLOWDOWN
- FIGHTING BIOFOULING

FEATURES

- Suitable for all pipe materials
- Available for pipes up to 200mm as standard
- No plumbing or cutting of pipes required
- Easy retrofit - no downtime

APPROXIMATE DIMENSIONS

- 300 x 200 x 100 mm
- 3 meter cable

TYPICAL INSTALLATION LOCATION

- Inlet to pumps for swimming pools
- Cold inlet to heat exchanger or hot water cylinder for other applications

FURTHER INFORMATION

For more detailed guidance on specification, installation or other information, please contact sales@hydropath.com or your local representative.



FROM COMBI BOILERS TO COOLING TOWERS

HydroFLOW® units are working all over the world on multiple applications, treating carbonate and non-carbonate scaling and filtration issues in a wide variety of industries. Check out our website for more information.

- From homes to heavy industry
- From spas to steel mills
- Suitable for any pipe material
- From 15mm to 1500+mm OD pipe diameter



LIMESCALE



BIOFOULING



FLOCCULATION

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