

*Hydro***FLOW**  
BY HYDROPATH®



# HOTEL INDUSTRY

## Water Treatment Solution

Improve hotel efficiency and sustainability with HydroFLOW® by effectively managing limescale, biofilm, and chemical usage. This eco-friendly, easy-to-install solution enhances operational performance, reduces costs, and supports exceptional guest comfort and hygiene standards.

⊗ Limescale   ⊗ Biofouling   ⊗ Flocculation



# Sustainable Cleantech for H2O Treatment

## Water Treatment for Hotel Industry

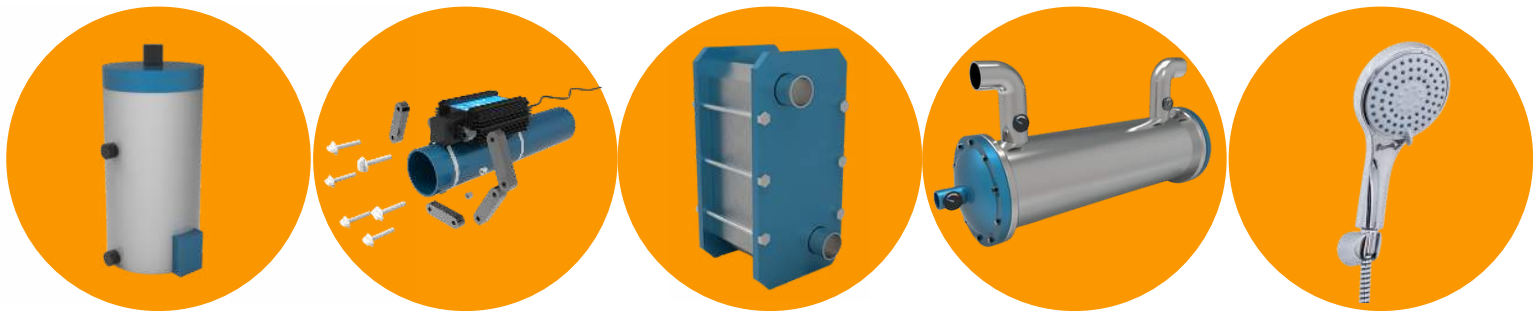
### Why Choose *HydroFLOW*®?

#### Enhance Hotel Efficiency with *HydroFLOW*®








Hotels face challenges such as limescale build-up, biofilm formation, and excessive chemical usage, all of which can impact guest satisfaction and increase operational costs.

#### *HydroFLOW*® Offers a Better Solution:

- **Easier Cleaning of Showers, Taps, and Sinks:** Reduces limescale build-up, making surfaces quicker and simpler to maintain.
- **Improves Pool Management:** Reduces chemical use and associated smells, enhancing guest comfort and decreasing operational costs.
- **Maintains Equipment Reliability:** Keeps hot water systems and other equipment running smoothly, helping to lower maintenance expenses and energy use.
- **Controls Biofilm in Hot Water Systems:** Enhances water hygiene by addressing biofilm, which helps prevent issues like Legionella and boosts overall safety.
- **Eco-Friendly Solution:** Provides a non-chemical water treatment method that promotes sustainability while maintaining system efficiency.



## OUR INNOVATIVE SOLUTIONS

-  **Suitable for all pipe materials**
-  **Available for pipes up to 200mm as standard**
-  **No plumbing or cutting of pipes required**
-  **Easy retrofit - no downtime**
-  **Typically installed on the cold inlet to heat exchanger**
-  **300 x 200x 200 mm unit dimensions**
-  **3 meter cable**





## CASE STUDY

MARRIOTT KO OLINA BEACH CLUB, OAHU, HAWAII, USA.

At Ko Olina Beach Club Marriott Hotel, the cooling towers faced costly treatments with antiscalants and biocides, alongside frequent maintenance and significant blowdown, due to a water supply containing 200 ppm calcium carbonate and 50 ppm silica. To address these challenges, a *HydroFLOW*® unit was installed on the 14-inch (350 mm) diameter pipe feeding the chillers, improving efficiency and minimizing reliance on chemical treatments.



**Baseline Measurement with 100% Biocide:** CFU levels remained under 1,000, with biocide chemicals effectively keeping them at a minimum.



**After 1.5 Months with 50% Less Biocide:** CFU levels increased slightly (between 1,000 to 5,000) as *HydroFLOW* began removing biofilm from the cooling tower.



**After 3 Months with 75% Less Biocide:** CFU levels were reduced back to under 1,000, maintaining control with significantly less biocide.

## RESULTS

Chemical use decreased over time, with anti-scalant and anti-corrosive agents fully discontinued after 1.5 months and biocide reduced by 75% after 2.5 months. Limescale accumulation halted immediately upon *HydroFLOW*® installation, and existing deposits were gradually removed. Blowdown was cut by 50%, total bacteria counts remained minimal, and chiller efficiency was maintained, resulting in a one-year ROI from reduced chemical and blowdown usage.

## OTHER TESTIMONIAL

“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.**

## RESULTS

ANTI-SCALANT ELIMINATED & BIOCIDES REDUCED BY

 **70%**



**CHILLER EFFICIENCY MAINTAINED**



**BLOW-DOWN REDUCED BY**

**50%**

# WHO ARE HYDROPATH?



Founded in 1992 by Dr. Danny Stefanini, Hydropath Technology are a leading innovator in electronic water conditioning solutions. Specialising in the maintaining of limescale and treatment of biofouling, our chemical-free solutions are designed to enhance the efficiency and longevity of water systems. Based in Nottingham, UK, we have grown from a small family-run business into a global leader with a robust network of distributors and clients worldwide.



*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.

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

## Would you like a free consultation?

### CONTACT US

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