

*Hydro***FLOW**  
BY HYDROPATH®



# COOLING TOWER

## Water Treatment Solution

Address limescale and biofouling in your cooling towers and heat exchangers with *HydroFLOW*®. Enhance efficiency, reduce maintenance costs, and save on chemical and sewage expenses.

⊙ Limescale   ⊙ Biofouling   ⊙ Flocculation



# Sustainable Cleantech for H2O Treatment

## Water Treatment for Cooling Towers

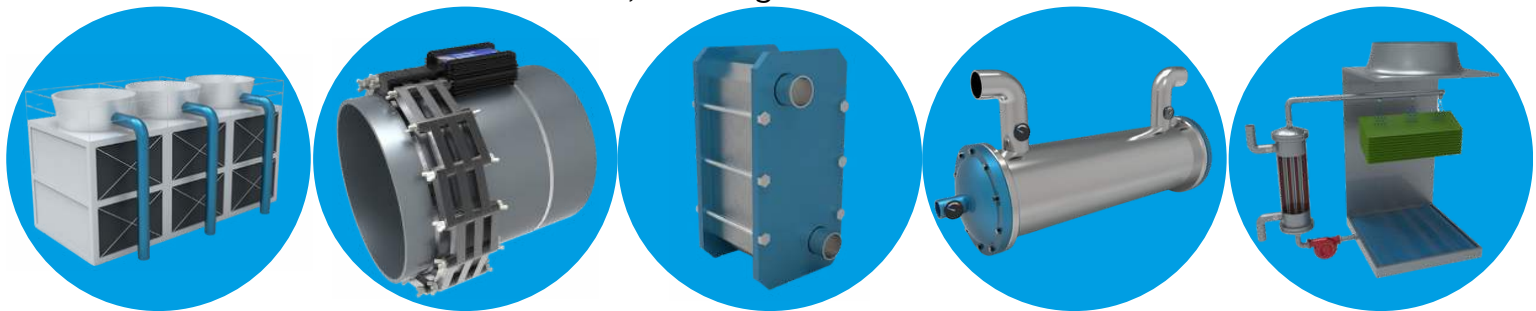
### Why Choose *HydroFLOW*®?

#### Enhance Cooling Tower Efficiency with *HydroFLOW*®








Cooling tower systems often face challenges like limescale build-up, excessive blow-down, and biofilm and algae growth. These issues lead to higher energy costs, water wastage, and reliance on costly, harmful chemicals.

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

- **Improves Heat Exchanger Efficiency:** Treats limescale and biofilm formation to maintain optimal heat transfer and energy efficiency.
- **Keeps the System Running Smoothly:** Reduces blockages and system inefficiencies, ensuring continuous operation.
- **Conserves Water & Reduces Blow-Down:** Increases cycles of concentration, reducing the need for frequent water replacement and lowering blow-down volumes.
- **Maintains Operational Performance:** Ensures efficient, long-term operation with minimal chemical treatment, lowering maintenance and operational costs.
- **Cost-effective & Eco-friendly:** *HydroFLOW*® provides a sustainable alternative to traditional chemical treatments, ensuring both financial and environmental benefits.



## 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

CENTRAL PACIFIC PLAZA,  
HONOLULU, HAWAII

The Central Pacific Plaza bank building in Honolulu, Hawaii, was cooled by two 300 ton cells and one 75 ton cell. Their objectives were to keep biological growth, scale accumulation and corrosion rate under control while using minimal amounts of chemicals. The towers were treated using a single Custom 14" HydroFLOW® unit, fitted before the chillers. Over a 90 day evaluation period, chemicals were gradually reduced or eliminated and the system carefully monitored.

**Before**



**After**



## RESULTS

Limescale and corrosion build-up inside the cooling tower and chillers remained under control even though anti-scalant and anti-corrosive chemicals were discontinued. Biocide chemical was reduced by 85% and bacteria levels reduced by 99%, from 100,000 CFU to 1,000 CFU. Blow-down reduced by 50% and Conductivity remained stable at 1245 ~ 1295 Micro Siemens

## TESTIMONIAL

"There is a *HydroFLOW*® unit treating the water of the cooling tower in the big V&D store in Eindhoven and also there the cooling tower is completely scale free. These successful projects with the *HydroFLOW*® units in the different locations in the last 4 years showed us that the *HydroFLOW*® technology meets all our expectations."

**Project Leader, Grontmij Technical Management, NL.**

## RESULTS



**BLOW-DOWN  
REDUCED BY**

**50%**

**BIOCIDE  
REDUCED BY**

**85%**



**BACTERIA  
LEVELS REDUCED**

**99%**

**FROM 100,000  
TO 1,000 CFU**

# 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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