

*Hydro***FLOW**
BY HYDROPATH®



WASTE WATER INDUSTRY

Water Treatment Solution

Improve Wastewater Treatment with *HydroFLOW*®. Control scale and struvite build-up in wastewater treatment plants, enhancing efficiency and reducing maintenance downtime. Minimise chemical use with this easy-to-install solution for reliable performance.

⊗ Limescale ⊗ Biofouling ⊗ Flocculation



Sustainable Cleantech for H2O Treatment

Water Treatment for Wastewater

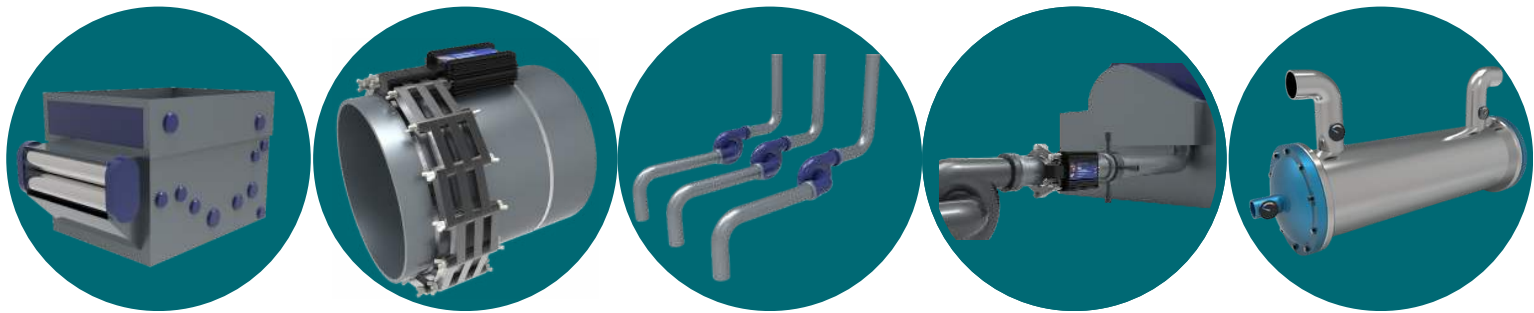
Why Choose *HydroFLOW*®?

Improve Wastewater Treatment with *HydroFLOW*®








Control scale and struvite build-up, enhancing efficiency and reducing downtime. Minimise use of chemical such as polymer flocculant and anti-foam with this easy-to-install solution for reliable performance.

HydroFLOW® Solutions for Wastewater Treatment:

- **Address Struvite Scaling:** Utilises an electrical signal to keep minerals in a powder-like form, preventing blockages and improving flow.
- **Cuts Polymer Use:** *HydroFLOW*®'s electronic flocculation can cut polymer flocculant costs by over 15%.
- **Minimise Anti-Foam Requirements:** Reduces the reliance on anti-foaming agents, optimising chemical use and operational costs.
- **Easy Installation:** Fits around pipes without halting operations, ensuring minimal disruption.
- **Eco-Friendly and Cost-Efficient:** Minimising chemical use and enhancing system efficiency, *HydroFLOW*® delivers a sustainable, cost-effective wastewater treatment solution.



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 200 x 200 mm unit dimensions**
-  **3 meter cable**





CASE STUDY

WASTEWATER TREATMENT,
CITY OF ORLANDO

The 2-meter wide belt presses at the City of Orlando Waste Water Treatment Plant suffered from severe struvite scale accumulation which greatly impeded the equipment's productivity and effectiveness. They wished to prevent new struvite scale accumulation, gradually remove existing struvite deposits, and if possible, reduce polymer usage. A custom 12" *HydroFLOW*® was installed on the feed to the belt press.

Before



After



RESULTS

There was a marked reduction in the struvite build-up and existing struvite was gradually removed. The amount of polymer required to produce a cake of sufficient dryness was reduced by about 20%.

INDEPENDENT TEST REPORT

"This technical memorandum verifies that the use of *HydroFLOW*® I Range units at the RWH Treatment Facility prevented scale formation in the centrate transfer pump and pipe. The *HydroFLOW*® units also caused changes in the characteristics of the existing scale, making it easy to be removed by the flowing liquid. It should be noted that following the test, RWHTF purchased and installed four *HydroFLOW*® units on the centrate and digested sludge lines"

Samuel Jeyanayagam, PhD, PE, WEF Fellow/CH2M HILL, Inc. (CH2M)

RESULTS


**NEW
STRVITE
SCALE
PREVENTED**



**EXISTING
STRVITE
GRADUALLY
REMOVED**



**POLYMER
USE
REDUCED
20%**



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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