

Wastewater Treatment DAF System



H2Flow DAF DELTA35 Unit and Rotary Screen

Case Study Details

Plats du Chef contracted H2Flow to provide a Dissolved Air Flotation (DAF) system to treat the wastewater from their processing facility. Based on a maximum instantaneous flowrate of 36 m³/hour, the equipment designed to meet the requirements comprised of a self-priming centrifugal feed pump, internally fed rotatory screen, pipe flocculator of 30 m³/hour nominal capacity, dosing system (coagulant, polymer and pH correction), a DAF unit with an hydraulic capacity of 35 m³/hour, sludge pump, process instrumentation and PLC controls.

A properly functioning DAF unit will remove 90-95% of Total Suspended Solids (TSS) and 90-95% of Fats, Oils and Grease (FOG). This removal efficiency is largely depending on the physical-chemical pre-treatment of the water as well as the chemicals implemented during the flocculation stage of treatment. Following start-up, >96% removal of FOG was achieved based on influent-effluent results from December 2018 sampling.

Engineering Consultant: Wood PLC (Amec Foster Wheeler)

Client: Plats du Chef

Start-Up: September 2018