

WWTP for Barcs's Dairy Plant

INDUSTRIAL WASTE WATER TREATMENT DAF



Pureco together with its technological partner, called Nijhuis Water Technology has delivered a one-stage wastewater treatment plant (WWTP) to one of the market leader dairy plant at Barcs, Hungary, called Dráva Tej.

Dráva Tej produces dairy and dairy based products on a wide scale, which have been successfully introduced not only on the Hungarian but on the European markets as well. The WWTP was erected as a green field project for the new production facility of the company. The new technology of the WWTP, consists only one stage, a so called dissolved air flotation unit (DAF) together with a curved screen in order to meet with the sewage effluent requirements. While the curved screen is dedicated to remove any coarse material being present in the wastewater, the flotation unit removes most of the non-dissolved materials. The required chemicals such as PAC, NaOH and poly electrolyte dosed into a flocculator prior to the DAF unit.

new flotation technology,
curved screen, dairy industry,
multiprocessing, flotation,
sustainability

The primary sludge has relatively high total solid concentration, therefore any dewatering step is unnecessary before it is transported to an incineration plant. The newly built WWTP has been successfully operated since 2008, meeting with the required discharge parameters. Taking local conditions and industry-specialities into consideration we offered sustainable and environmental friendly solution for waste water treatment.

Parameter	Unit	Influent	Effluent
Flow	m ³ /d	30	
CODt	mg/l	4 300	≤ 1 000
BOD5	mg/l	2 500	≤ 300
FOG	mg/l	378	≤ 50

