

# CASE STUDY



## INDUSTRIAL WASTEWATER TREATMENT PLANT IN CONTAINERIZED FORM FOR A CHOCOLATE-BISCUIT FACTORY

**DEVISE ENGINEERING S.A.** designed, constructed and commissioned in 2012 a Packaged Wastewater Treatment Plant for the **Chocolate-Biscuit Factory** of ION Industry in Greece.

The purpose of this Package Wastewater Treatment Plant was to treat the wastewater effluent from the factory, achieving the effluent quality parameters specified by the client and meeting the required standards for the safe effluent discharge to the municipal sewerage network.

The Plant is capable of treating up to 60 m<sup>3</sup>/day of industrial wastewater with an average loading of COD = 2.900 mg/l, BOD<sub>5</sub> = 2.100 mg/l, TSS= 420 mg/l, TN= 32 mg/l, TP=1.2 mg/l, which also contained a high content of oil-fat and emulsions.

This tailor-made solution accommodated the special requirements of the limited foot-plant area and the factory's discharge conditions.

The DEVISE design and method of construction facilitated the quick installation of the plant and limited the disruption of the factory's operation.

This Industrial WWTP comprises of:

- Inlet Works (fine screening)
- Containerized Physical-Chemical Treatment Unit (DAF) in stainless steel
- Containerized Biological Treatment Unit, using MBBR-IFAS technology, DEVISE Model "15BIOMAX-3"
- Disinfection System

The Wastewater Treatment Plant is fully automated and controlled through an advanced PLC & SCADA system to ensure reliable and efficient operation.

DEVISE ENGINEERING provides its clients Smart Water Solutions at a competitive price and guaranteed performance with the highest European Quality.



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