

CASE STUDY



CONTAINERIZED ULTRA-FILTRATION TERTIARY TREATMENT UNIT FOR THE MUNICIPALITY OF ARHANON-ASTEROUSION

DEVISE ENGINEERING S.A. designed, constructed and commissioned in 2021 a Compact & Containerized Tertiary Treatment Plant with Ultra Filtration technology for the Project of "Refurbishment and Energy Upgrade of WWTP at Arhanes, in the island of Crete". The system was supplied through the company THALIS ES SA acting as Main Contractor in the project.

For this project DEVISE supplied a fully automatic modular unit, type "UF-PACK" which had a hydraulic treatment capacity of 1.250 m3/day. The plant was aimed to polish the biological treated effluent from an existing Wastewater Treatment Facility in Arhanes, Crete and so to provide a high-quality tertiary effluent suitable to reuse in the nearby agricultural area (olive groves, etc).

The Effluent Quality that is achieved is: TSS<2, NTU<2 and BOD< 5 mg/l (providing good biological treatment in the STP)

This Modular Tertiary Treatment Plant has been implemented using pressurized high-quality polymeric Ultra-Filtration membranes, installed with all accessories and controls inside a specially modified container and it was supplied as a "plug & play" unit. Briefly, the Ultra-Filtration Plant was comprised of:

- Automatic mechanical pre filtration unit
- Polymeric UF Membranes
- All pumps, compressor, auto-valves and instrumentation
- Cleaning In Place System
- Specially modified Containerized Machine Room

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



7 Aggelou Pyrri Str.,
11527 Athens, Greece
Tel.: +30 210 3211040
Fax: +30 210 3222012
info@devise.gr

