

CASE STUDY



CONTAINERIZED ULTRA FILTRATION PLANT FOR THE TREATMENT OF LANDFILL LEACHATES IN ARTA MUNICIPALITY

DEVISE ENGINEERING S.A. designed, constructed and successfully commissioned in 2020 a Containerized Ultra-Filtration (UF) Plant for the treatment of **leachates originating from a Landfill Site** using **MBR treatment technology**, in the framework of the project "Upgrade Works of the Solid Waste Facilities of Vlacherna Artas".

DEVISE scope of work included the Design, Engineering, Supply, Installation and Commissioning of a **Containerized Cross-Flow UF system**, model: **DEVISE ex-MBR 200**, with a **hydraulic capacity of 200 m³/d**.

For the effective treatment of this heavily polluted wastewater (leachates) DEVISE incorporated **external MBR technology with cross-flow membranes** in its **compact separation unit**, with all the necessary equipment (membranes, pumps, plumbing fittings & piping, control & automation, instrumentation monitoring operation) fully integrated in a specially constructed for this purpose 40 ft container.

The DEVISE ex-MBR package plant also includes the necessary lighting, ventilation, insulation and other necessary facilities, forming a complete system ready for installation on the plot and directly connected to the bioreactor.

The CIP system for the ex-MBR plant was integrated in another 20 ft container.

In this packaged plant, DEVISE used first class materials from European manufacturers.



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