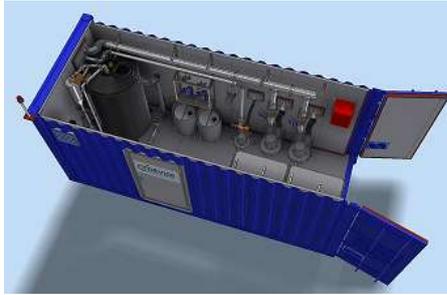


CASE STUDY



INDUSTRIAL WASTEWATER TREATMENT PLANT FOR AN ANIMAL FOOD FACTORY

DEVISE ENGINEERING S.A. designed, constructed and supplied in 2020 a Packaged Wastewater Treatment Plant for a **Pet Food Factory** in Poland.

The specially designed **containerized biological treatment unit**, with a capacity of 50 m³/d, provides biological treatment to the primary treated wastewater effluent from a meat processing factory. The wastewater going into the DEVISE ULTRA-CLEAR Plant was primarily treated by using physical-chemical process (DAF). DEVISE cooperated with a local partner to complete the required Wastewater Treatment Facility.

All treatment units have been designed to handle waste loadings of COD: 1.600 mg/l, BOD₅: 800 mg/l & TN: 175 mg/l and through the technology of MBR achieved the limits of discharge as follows: COD<50 mg/l, BOD₅<5 mg/l, TSS<2 mg/l, TN<20 mg/l.

The delivered DEVISE Plant comprised of:

- Packaged/Prefabricated Membrane Bioreactor unit, with post denitrification cell with submersible mixer & membrane filtration cell
- Containerized Machine Room/Control Room that includes all necessary equipment, instrumentation, controls as well piping and electrical connection.

The ULTRA-CLEAR™ Bio Plant incorporates the most up to date wastewater treatment technology, namely that of submerged Membrane Biological Reactor (MBR). These “Package Bio Plants” offer a smart solution that surpasses other conventional ones of similar capacities, both in terms of compactness, performance and reliability.



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