

PlanetDISK®

WASTEWATER TREATMENT PLANT

CASE STUDY - GREECE

LARISSA – GREECE

PROJECT DETAILS

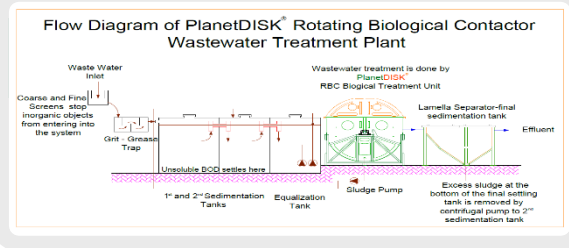
Operational since 2018, this system serves a population equivalent of 2,400 and treats up to 480 m³ of wastewater per day. It stands out for its energy efficiency and low operational cost. Had a conventional blower-based aeration system been used, the energy requirement would have been around 20 kW. Instead, the installation of 6 PlanetDISK® Rotating Biological Contactor (RBC) units—each rated at just 0.37 kW—has brought the total installed power down to only 2.22 kW, resulting in over 80% energy savings.

DESIGN PARAMETERS

- Population: 2400 Person
- Capacity: 480 m³/day
- Inlet Temperature: 19 °C
- Inlet BOD: 250 mg/L
- Inlet COD: 560 mg/L
- Effluent BOD: 25 mg/L
- Effluent COD: 90 mg/L

BENEFITS

- >80% energy saving
- No annoying smell
- High resistance for organic and hydraulic fluctuations depending on season. Larissa is a touristic area and have population change seasonally.
- Simple and economical to install and operate; does not require continuous maintenance like the activated sludge system.



STAGES:

- Coarse&Fine Screen
- Grit&Grease Chamber
- Presedimentation Tanks
- Equalization Tank
- PlanetDISK® Units



WHY PlanetDISK®?

- Lowest Carbon Footprint
- Low Energy Demand
- No Annoying Smell and Noise
- Easy Operation & Maintenance
- Robust Design with Long Lasting Materials
- Reliable Under Variable Loads

GERMAN  Technology

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