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Rotating Biological Contactors

Capacity:
6.000 person equivalent
1.500 m³/d

Design:
The sewage treatment plant consists of a rotating drum sieve to remove particles from the influent. The next step is a pre-aeration tank. Fine bubble air diffusers assure sufficient oxygen supply and turbulence for a first BOD-removal. Via scoop wheel elevators, the pre-treated effluent is fed into the biodisc stage where the biodegradation takes place. Rotating immersion discs of 3m diameter will be installed in concrete or metal tanks. For the final clarification, lamella insets will be installed in a concrete tank.

European gross cost estimate:
500.000 EUR

Space requirement:
800 m²

Advantages:
- Less surplus sludge production compared to activated sludge processes
- Only 20-50 % power consumption compared to activated sludge processes
- Almost no smell, no noise, therefore often in the near of buildings
- Mostly mechanical maintenance, less chemical measurement in biological step
- Inside a building
- For biological step no technical expenditure required

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