Ultrafiltration +Reverse osmosis

Food industry



APLICCATION:

 Treatment of effluent sewage treatment plant as process and drinking water for production

PROCEDURE:

- Pre-treatment: Biological sewage treatment plant, removal of turbidity, heavy metals, COD reduction
- Ultrafiltration, 6 PVDF capillary membranes, membrane area 300m²
- Reverse osmosis for desalination according TrinkwV
- Permeat use for production
- Concentrate for irrigation of green areas
- COD-reduction to max. 200 mg/l

Parameter/Technical data	
Performance Permeat UF	15 m³/h
Performance Permeat RO	12 m³/h
Conductivity Permeat	≤ 10 µS/cm
Salt retention	≥ 99 %
Working pressure UF	6 bar
Working pressure RO	12 bar
Installed power UF	12 kW
Installed power RO	18 kW





Plant overview - Reverse osmosis (left), Ultrafiltration (right)