

MBR Hotel Schwaegalp, Switzerland

Task

Design, supply, installation and commissioning of the MBR reactor for the hotel "Schwaegalp", Switzerland. Client: aqua-System AG. Commissioning in 2002.

Inlet

The plant receives flows from the connected hotel and restaurant and from a cheese dairy. Approx. 780 population equivalents are connected to the WwTP.

Process Description

The raw water passes through a 0,75 mm perforated screen to the biological treatment. The biological process comprises of a pre-denitrification tank followed by the membrane bioreactor with an immersed siClaro® DM Filter. The filtrate passes through the membranes via filtrate pump. The structure also comprises filtrate collection and sludge storage with drain bag.



Design Data

Population Equivalent (PE)	780,0
Average flow (m ³ /d)	100,0
Peak flow (m ³ /h)	6,5
No. of siClaro® Filter	1 DM
Installed membrane surface area (m ²)	270,0
Aeration tank volume (m ³)	120,0
Balancing tank (m ³)	80,0