

Spring water treatment

Waldkirch

Customer WALTER-LUTEMA GmbH

Project Spring water treatment for the generation of drinking water to supply the mountain restaurant „Bergwelt Kandel“ in Waldkirch in the Black Forest



Specifications

The system has a maximum capacity of 2 m³/h and is designed for a maximum daily demand of 8 m³. The spring water is treated by means of various filter stages in order to produce drinking water and is then stored in two pure water tanks. When withdrawn, the stored drinking water is disinfected by a downstream UV disinfection system. During longer periods of standstill, the stored water is kept free of germs by means of a loop line via the UV disinfection system and returned to the storage tanks.

Scope of supply

- 1 Gravel filter to remove dirt and suspended solids
- 1 Ultrafiltration system to reduce germs
- 1 Partial deacidification filter to increase the pH value
- 2 Pure water tanks with a capacity of 3 m³ each
- 1 UV disinfection system including temperature-controlled flushing
- 1 Switch cabinet to control the entire system including hygiene flushing and pure water backwash of the filter systems

Grünbeck's services

Process design, mechanical and electrical engineering, programming, manufacturing and start-up