



REFERENZ

INNOVATIONEN
IM APPARATE- & ANLAGENBAU

Freshwater station – residential and care center Zum Lamm, Bürgerspital Basel

bsb

PROJECT | OUTPUT

After extensive renovation, the Zum Lamm residential and care center reopened its doors at the beginning of May 2021. Deeply rooted in the social life and history of the neighborhood, it is located in the heart of Kleinbasel. For two centuries, its historic walls have repeatedly housed social institutions. Today, dedicated, and well-trained staff look after residents around the clock in the completely modernized historic building.

TASK | OBJECTIVE

Especially in residential and nursing homes, high demands are placed on the installations and equipment for heating drinking water. The focus is on a high level of supply security, high hygienic requirements and the use of future-proof, climate-friendly energy. The heat supply for the building is provided by the district heating network of IWB Industrielle Werke Basel, with energy sources from the waste incineration plant (KVA) and the IWB wood-fired power plant.

SOLUTION | MEASURES

Due to hygienic requirements, storage in a storage boiler for drinking water was dispensed with and an APACO energy storage tank for heating water was chosen instead. The drinking water is heated in two APACO freshwater modules by means of external plate heat exchangers using the continuous flow principle, which are supplied with heating water from the APACO energy storage tank as required. The twin modules provide redundancy so that the supply of hot water is guaranteed without interruption even during maintenance work. Also included in the APACO system solution was the use of in-house waste heat from the commercial refrigeration system in the cold rooms to preheat the drinking water. The



freshwater modules are regulated and controlled by means of an ApacoLogic control system, which was designed and built on a plant-by-plant basis in APACO's automation department. The creation of this modern freshwater station was accompanied by the APACO team by means of a comprehensive service package.

CONCLUSION | FUTURE

As a manufacturer, APACO has decades of experience in the design and construction of heat exchangers, district heating stations, pressurization systems and domestic hot water systems for building services. With innovation and technological progress, we design, build and support modern systems for our customers and partners.

„APACO - SWISS QUALITY for SWISS ENERGY“