

Office Building Merck Weiterstadt



Design, manufacture, and delivery of 3 ice storage modules for air conditioning an office building

Project

Merck operates its Healthcare division at the Weiterstadt site. 160 employees research, develop, produce, and market innovative biopharmaceuticals and small molecule drugs. Retrofit of the cooling system in an existing building. The building's connected load was insufficient to supply the refrigeration machine during peak times during the day. In order to reduce the power requirement, the energy-intensive refrigeration process had to be decoupled from the refrigeration consumption. The ice storage tank is charged at night and cools the offices during the day.



Scope of delivery and services

- ❄ Design, manufacture, and delivery of three ice storage modules for air conditioning an office building

Technology used

- ❄ High-performance ice storage unit type sp.ICE 20'

Performance data

- ❄ Storage capacity: 6,600 MWh
- ❄ Charging time: 10 hours
- ❄ Charging capacity: 700 kW

Commissioning

2019