

ICT - Fraunhofer-Institut für Chemische Technologie, Pfinztal

Client: Fraunhofer-Gesellschaft
Project: Construction of the Institute of Chemical Technology
Floor Space: 3,500 m²
Project Period: 2003 to 2006

Scope of Services:

- Heating, ventilation, sanitary technology
- Building automation
- Laboratory technology
- Clean-room technology
- Work phases 1 to 8 according to HOAI (fee structure for architects and engineers)

Fields:

- 800 m² hall special procedures
- 400 m² hall technologies
- 200 m² clean-room hall
- 1,000 m² laboratory space
- 1,100 m² office / administration

Special Features Building Services:

- Deionised water preparation
- Industrial gases (nitrogen / inert gas)
- Central air supply
- District heat
- Reversible refrigerating machine for climate production / cooling (6 / 12 °)
- WRG circulatory group for the air conditioning with the functions: heat recovery, adiabatic cooling, free cooling with cold extraction for process cooling and heat extraction for heating via concrete core temperature.
- Building automation solution for the switching of external systems with BACnet



Laboratories for Materials Research

Laboratory bench system with flue and concealed extraction, extraction arms to collect waste heat and smells, media pendant with connections for special gases, cooling water, electronics and data