

Rigshospitalet Copenhagen University Hospital



New renovated operating room with "Cool Ceiling" LAF-solution.

Rigshospitalet wanted to transfer the good experiences from their Intensive care rooms with "Cool Ceiling" as they were to renovate an operating room because they wanted better cooling capacity with no draughts.

Less expensive installation costs and simpler coordination of available space above the ceiling due to no ducts connections to supply air diffusers.

At first, the operating room was built with a TAF solution (turbulence air flow), but soon they wanted to change it to LAF (laminar air flow) solution.

The operating room can be changed from TAF to LAF (and vice versa) in a short time as the supply air system is built into the ceiling tiles and can be replaced in a short time.

Test results

Both at the TAF and LAF solution, the "Cool Ceiling" system more than fulfilled all of the limit values for particulate matter and air distribution

Service and Maintenance

The ventilation unit and the associated HEPA-filter are located outside the operating room, which provides easy access to service and maintenance and the room avoids contamination during the process.