

# PRACTICE REPORT 58

Application examples for planners of complex construction projects

VENTAFLEX®

More efficiency in air conduction



During ongoing operation:  
Clinic renovation with latest standards

Application area for VENTAFLEX®:  
LAVANTUS® underground installed air ducts  
supply clinic building with clean air

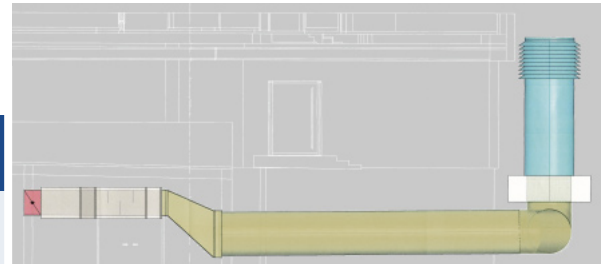
## The Sana Clinic Hof is technically brought up to the most modern standard

LAVANTUS® is the first choice for the transport of 22.000m<sup>3</sup> air through the ground

### Task

465 full-time care beds, 14 specialist departments, in which about 55.000 patients are treated annually – the Sana Clinic Hof is one of the most important somatic acute care hospitals in Bavaria. A brief look back into history: Originally the architect oriented himself at the layout at a double-decker plane for the 1931 opened municipal hospital. After several reconstructions nothing of this can be recognized anymore. Following the principle „form follows function“ the building was already significantly enlarged in the 50s due to the high number of patients, further additions and modernisations succeeded.

The task to keep the clinic competitive as an up-to-date and extensively equipped medical supply center is thereby the greatest challenge and demands a well-considered planning. Pragmatic solutions, which are applicable uncomplicatedly have a clear priority. Furthermore the claim to use innovative products in highest quality should be complied with. Logical consequence: The decision for underground installed air ducts was made for LAVANTUS®.



*Planning and realization: within the building the LAVANTUS® air duct is connected to a rectangular duct, the ventilation tower is installed later.*



### VENTAFLEX® -solution

Connection to ventilation towers and transition to rectangular duct system for supply and return air. Use of ducts with great diameters as well as reduction Ø 1250 to 1000, 90° curves and wall duct.

### Advantages due to the VENTAFLEX® system

- + Combinability with other duct systems** by individual fitting
- + Transport of especially great air volumes** – due to great cross sections
- + Reduction of the operating costs** – up to 40 % less energy loss, up to 10 % less pressure loss and up to 99 % less leakage loss
- + Up to 70% less weight** – advantages for transport, handling and installation

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