

Pharma: Design of HVAC

P-281

Design of ducting for Clean Room Applications – GMP Class A, B, C or D or according to ISO16644 Classification. P-Engineering designs ducting system for lowest possible pressure loss (SEL-value) with regards to

- Avoiding Carnot Losses and generally optimum design
- Optimizing Silencer Baffle Design
- Optimized Guide Vane Design and placement in Duct.

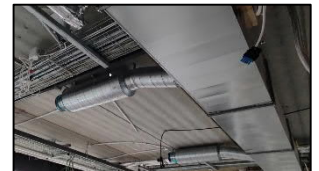
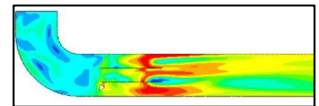
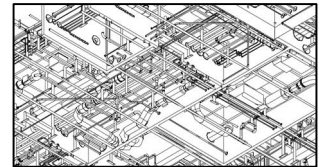
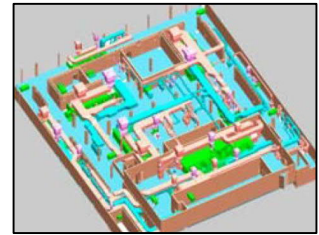
Design output are:

- PID
- 3D Arrangement Drawings
- 2D Arrangement Drawings
- Air Conditioning – Heating & Cooling Applications
- Humidifiers – Water & Steam
- Filters – HEPA
- Sound Calculations
- Sound Attenuators
- BoQ – Bill of Quantities
- Detail Erection Drawings.
- Support Specification
- Fire and Smoke Control Damper Specification.
- Functional Descriptions
- VAV Damper Specification
- Insulation Specification
- Cleaning philosophy and Inspection Hatch placement

P-Engineering uses AVEVA PDMS Software for 3D design and P-Engineering Application for Pressure Loss Calc.

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*Top: Vaccine Factory (US) designed for Pharmadule – www.pharmadule.com & Ventilation for AGC's Søborg Facility (DK) – www.agcbio.com.
Middle: CFD investigation for Flow Optimization.
Bottom: Various ventilation details.*