## Plantware

## Clean Room Vent Design:

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:

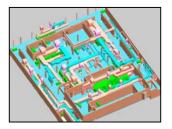
- PID
- 3D Arrangement Drawings
- 2D Arrangement Drawings
- Humidifiers Water & Steam
- Filters HEPA
- Sound Calculations
- Sound Attenuators
- BoQ Bill of Quantities
- Detail Erection Drawings.
- Support Specification
- Fire and Smoke Control Damper Specification.
- Functional Descriptions
- VAV Damper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

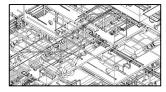
P-Engineering uses e.g.

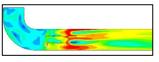
- AVEVA PDMS Software for 3D design
- P-Engineering Application for Pressure Loss Calc.

## **Contact Information:**

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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.