# Plantware

# Duct Design: Comfort Vent.

## P-172

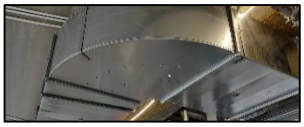
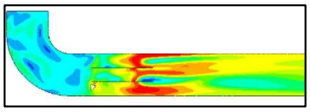
Design of ducting for Comfort Ventilation in e.g., Commercial Office or Head Quarters Building.

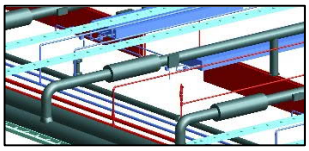
P-Engineering designs ducting system for lowest possible pressure loss (SEL-value in DK) with regards to

- Avoiding Carnot Losses and generally optimum design for duct transition.
- AHU Exhaust and Intake optimization
- Optimizing Silencer Baffle Design
- Optimized Guide Vane Design and placement in Duct.

Design output are:

- PID
- Sound Calculations
- 3D Arrangement Drawings
- 2D Arrangement Drawings
- 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




*Pictures of different project with Ducting for Comfort Ventilation System.*

*P-Engineering uses CFD modelling for special cases like e.g., Auditoriums and large Atriums to optimize the design of inlet air armatures and nozzles.*

P-Engineering uses e.g.

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