

# MISTRAL PLATFORM

# DIESE FACILITY

## DIESE : DEPOSITION OF AEROSOLS IN INSTALLATIONS AND EQUIPMENT FOR VENTILATION AND FOR AEROSOL SAMPLING EFFICIENCY

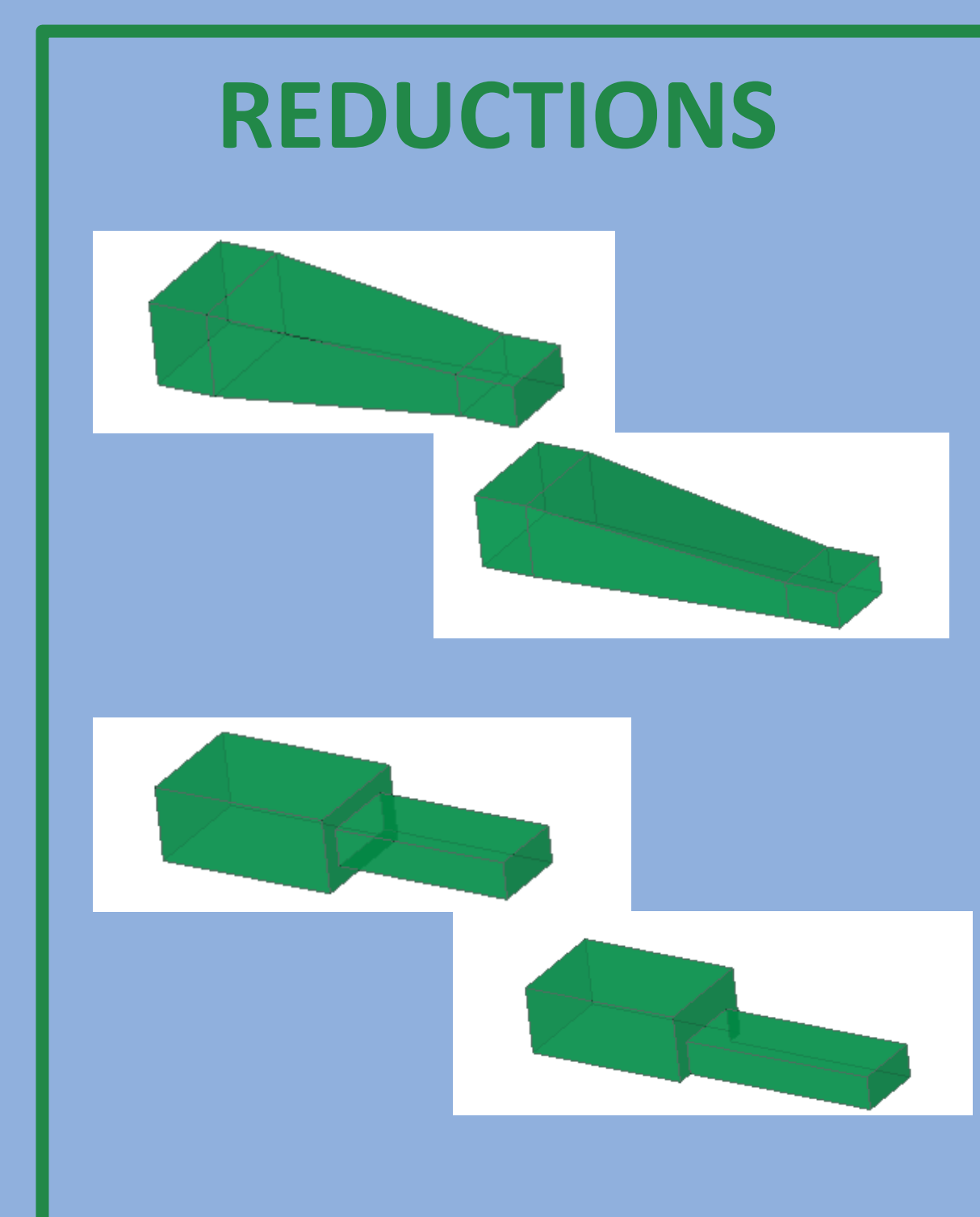
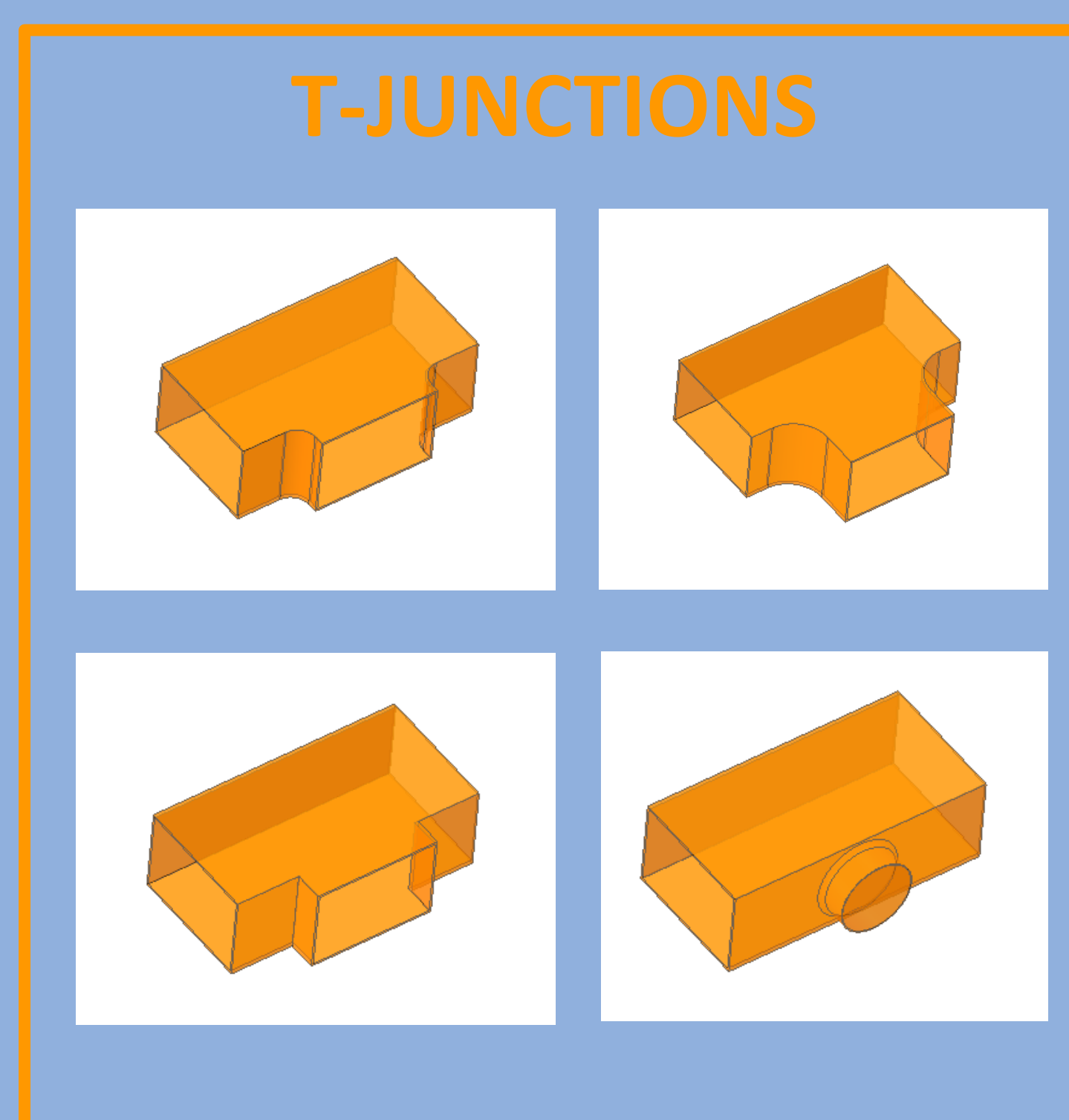
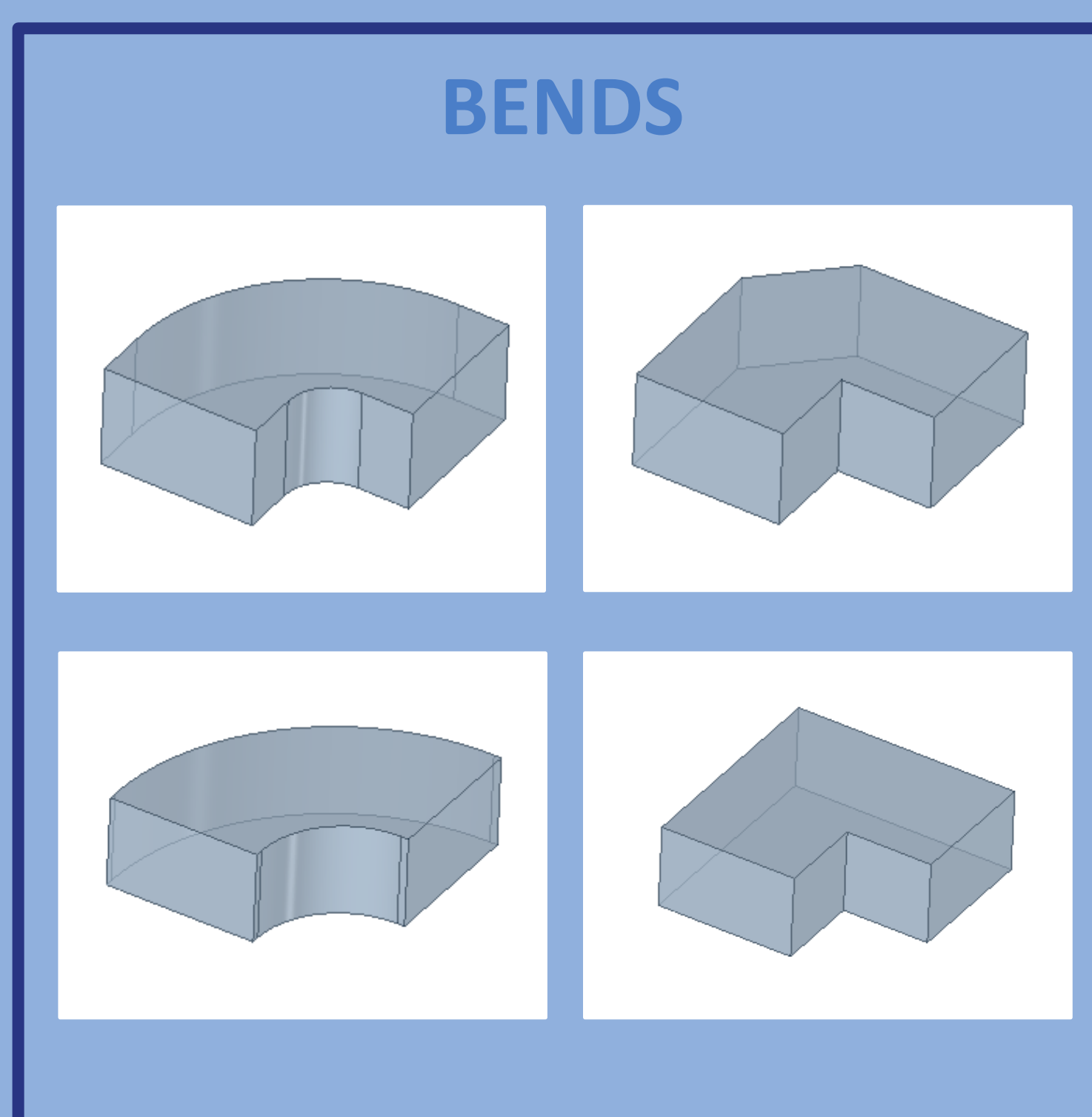
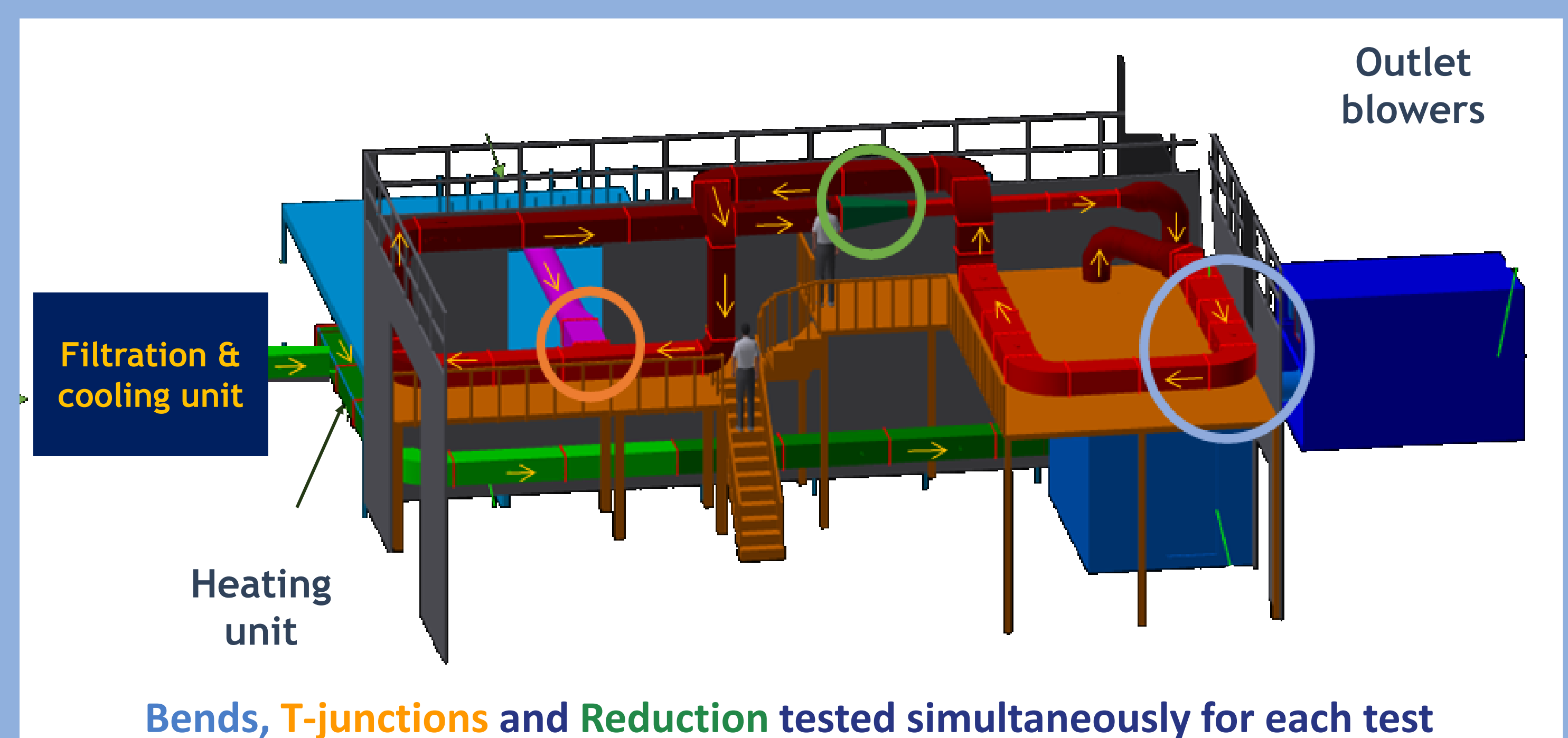
### Objective

DIESE is a large-scale facility to study aerosol transport and deposition in real-scale ventilation ducts with a high number of singularities. Its specificities make it a unique and useful tool for the validation of aerosol transport and deposition models in engineering simulation codes.



### Specificity – a one of a kind facility

- 60 m length
- Real-scale ventilation ducts
- Rectangular cross-section steel ducts
- Over 10 singularities (real and academic)
- High modularity
- Local instrumentation for CFD code validation



**Thermo-hydraulic parameters**

- 2500 - 10 000 m<sup>3</sup>/h
- 7 - 50°C
- 10 - 100% RH
- H13 aerosols filters (removable)

**Aerosols parameters**

- Aerosol : 1 to 10 μm
- Solid/liquid
- NaCl, droplet, powders
- Low to high mass concentrations

