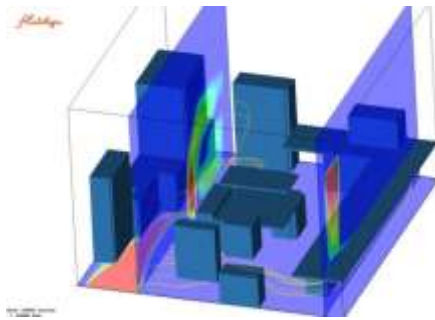
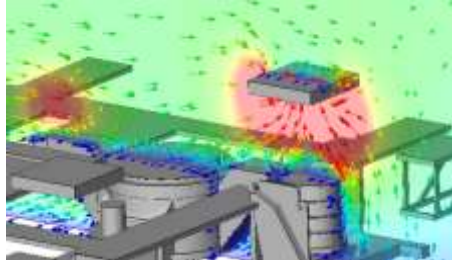




VENTILATION IN CLOSED AND PARTIALLY CONFINED AREAS

**USER COMFORT - HVAC
INTERNAL AIR QUALITY
OPTIMISING VENTILATION**



- 3D fluid mechanics tool dedicated to HVAC simulation and indoor air quality in industrial premises, public spaces and habitations.
- Suitable for ventilation optimization studies for public health (estimation of pollutant concentration, HQE certification-high quality environmental standard for green buildings, HVAC and emergency ventilation in case of fires (dispersion and smoke stratification ; visibility)
- Developed for designers, developers and architects, the tool is used for HVAC simulation as well as for internal air flow and exchanges with outdoor environment....

fluidyn-VENTCLIM takes into account the following parameters for simulation :

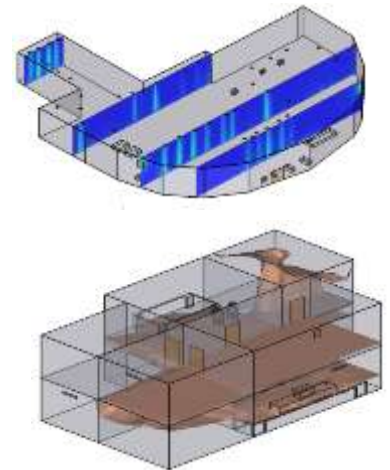
- Blowing and extraction outlets
- Ventilators : load loss coefficient, flow/pressure curve
- Natural convection (doors, vents, windows) by coupling with *fluidyn*-PANWIND, the wind flow calculation model
- Point, surface or volume emission sources
- Heat sources (hardware, electronics)
- Filters and other depolluting equipment

The tool is based on the solution of 3D fluid mechanics equations. It is integrated with an advanced post processing module to plot isosurfaces, contours and sections in 3D space.

VENTCLIM is coupled with fluidyn-REALTI to optimize sensor mapping in order to rapidly detect and localize pollutant emissions and provide a real time forecast of pollutant concentration evolution over time.

CUSTOMERS

Industries, consultancy firms, architects, developers,...



INFORMATION

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