

FLUIDYN-VENTCLIM

INTERNAL AIR QUALITY - USER COMFORT

VENTILATION OPTIMIZATION IN CLOSED SPACES

User friendly integrated tool for consultancy firms and industries

- Thermal comfort and internal air quality in industrial premises and tertiary living spaces.
- Suitable for optimization studies of sanitary ventilation (estimation of pollutant concentration, HQE certification), air-conditioning and emergency ventilation in case of fires (dispersion and smoke stratification; visibility).
- 3D simulation of natural or forced ventilation, air-conditioning, air flow in internal spaces and ventilation with external air.
- **f** Aimed towards urban designers, planners, and architects.



3D Simulation of all types of scenarios

Takes into consideration the determining elements:

- **f** Blower and extraction vents
- **f** Fans : pressure loss coefficient, flow/pressure curve
- Matural convection (doors, vents, windows)
- **f** Point, surface, or volume pollutant emission sources
- **f** Heat sources (electronic equipment)
- 🛃 Filters and other depolluting processes

FLUIDYN-VENTCLIM is based on the resolution of 3D computational fluid mechanics equations. The advanced post-processing tool available in the software enables the accurate 3D representation of velocity vectors, iso-surfaces, contours, and sections.

FLUIDYN-VENTCLIM can be used to optimize sensor networks to quickly detect and localize pollutant emission.









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