

Air Flow Consulting

From the analysis to the implementation

With more than 10 years of experience, AFC is known as a pioneer in numerical simulation for the built environment (CAE) and computational fluid dynamics (CFD). Simulation methods are therefore applied in the most efficient way.

Another strength of AFC is the total problem analysis approach. Projects are accompanied from problem analysis to the implementation. For our customers, numerous risks are therefore eliminated.

AFC is working in 4 business unit:

- Fire Safety
- Building Climate Control
- Contaminant Control
- Engineering

Fire Safety

Increasing safety for buildings

Building security is increasingly a critical concern of any construction project, fire safety being a main issue. Regulatory requirements and design considerations are becoming more demanding and complex, leading to a need for custom solutions.

AFC ranks among the leading experts in fire safety engineering and develops individual safety concepts. Architects and technical design teams are supported in all stages of the building design process, from competition to the realization.

Building Climate Control

More comfort, less energy

Building climate control is concerned with optimizing occupant comfort conditions along with sensible use of energy.

AFC provides analyses, develops concepts and optimal solutions using numerical air flow simulations, thermal building simulations, day lighting and artificial lighting simulations and measurements. AFC accompanies a project from design to realization aiming at high performance and quality at reasonable cost.

Contaminant Control

Better air for cleanrooms, industry and environment

Contaminant control means better air: to improve products by achieving high-quality standards for cleanrooms, for occupational health and for the environment by reducing contaminant spread.

Using virtual prototypes, AFC analyses a given situation and identifies solutions. Realistic simulations minimize costs, time and design risks.

Engineering

Simulation-based product development

The use of computer-aided engineering tools is essential in modern product development.

AFC's simulations in fluid engineering, thermal and structural mechanics and various other fields enable faster, better and above all more economical product development. AFC strives to achieve the greatest cost-benefit for the customer.

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