

SMOKE EXTRACTION

By evacuating some of the gas and smoke during a fire, smoke evacuation solutions facilitate the evacuation of building occupants and the intervention of the fire service while limiting heat damage on the building structure.



What is smoke extraction ?

A smoke evacuation system regulates the evacuation of smoke during a fire. It brings air from outside into the lower part of the room/area and evacuates the smoke through openings in the roof or façade found in the upper area. While the inhalation of toxic fumes causes the majority of deaths in fires, smoke extraction allows occupants to evacuate the premises with better visibility and facilitates the fire service operation. It also limits the heating up of the structure and therefore its deterioration. It also connects to the objectives of **compartmentation**, another means of passive fire protection.

How does smoke extraction work ?

Two main principles :

- ✓ **Natural smoke** extraction uses the chimney draught principle ; bringing in air to the lower area and evacuating via the upper. The fumes are evacuated by natural smoke and heat evacuation devices (DENFC), namely outlets and openings.
- ✓ **Mechanical smoke** extraction evacuates fumes by mechanical systems (fans, extractors) to create a vacuum.

Smoke extraction regulations

Specific regulations apply depending on the type of premises : industrial and commercial, public use and access, high-rise building (IGH) and/or residential.

For public use, high rise and work premises, a smoke extraction system is mandatory for a room of more than 300 m² or 100 m² if it is a windowless or underground (basement/cellar).

Uxello and smoke extraction

Specialists in fire safety solutions, we carry out studies, **design, produce and commission** as well as **maintain** your smoke extraction systems. We can offer you the most adapted solutions according to your premises and the norms and regulations that apply to your situation and requirements.

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