

PROTECTING OPERATORS & IMPROVING WORKING CONDITIONS

DAMY COOPERAGE



ISSUE:

BENZOPYRENE, AN AIR POLLUTANT OF SERIOUS CONCERN

During the construction of several extensions on its site, the Damy cooperage wished to install a new boiler. This extension was also intended to enable the company to welcome its customers in healthy conditions. The risk in the cooperage sector, especially for the coopers in charge of the boiler, is benzopyrene, a pollutant released by the combustion of wood.

The company called on NEU-JKF Wood Industry to install a system to guarantee the safety of its operators while providing them with good working conditions.

SOLUTION:

A SYSTEM THAT PROTECTS OPERATORS WHILE PROVIDING WORKING COMFORT

The first step was to offer full support in determining the need. This step enables the client to be advised on the most suitable ventilation solution.

During the burning process, the coopers regularly heat the wood, which generates smoke and steam. The installed system extracts the fumes and vapours efficiently. On the other hand, the extracted air is compensated by fresh air.

The fumes are extracted from 3 hoods (1 for pre-heating, 1 for bending, 1 for heating) connected to extractors placed on the roof (5 extractors in total).

40,000m³/h of air is reintroduced, partly through the gutters and partly through textile ducts.

This operation, the dynamic compensation via channels, guarantees working comfort for the operators. The originality of the solution lies in the fact that the air compensation system is equipped with an air cooling system that can be activated in case of very high temperatures. The system thus protects the operators while guaranteeing them working comfort.

