



EVAPORATIVE COOLING SYSTEM IMPROVE OPERATOR COMFORT

TEXTILE



ISSUE:

In a dyeing plant, the operators were faced with discomfort issues related to heat. The company has premises containing 19 tanks or mixers dedicated to the preparation of dyes for textile finishing.

The dye preparation process generates steam, and consequently a warm and humid atmosphere.



SOLUTION :

The first challenge was to extract the steam. Thanks to the installation of an «**Extract'air**» roof fan and a suction network of PVC pipes, the steam could be extracted continuously.

The air compensation was achieved by installing an «**Econoclim B**» system on the roof. With an air flow rate of up to 10,000 m³/h this system guarantees the introduction of fresh air. Air distribution inside the room was achieved through the installation of a network of textile ducts at the room entrance.

As the air is extracted directly above the tanks, both equipment installed have made it possible to create transverse ventilation providing a pleasant humidity level and offering comfort to the operators.