Technorama

Tecnorama, always sensitive to quality and productivity themes, conceived, planned and realised a considerable number of equipments able to noticeably increase the quality level for both laboratory and production dyeing.

The R&D department of Tecnorama followed has the evolution of the spectrometric analysis of the dye-bath and applied technologies working in transmittance, i.e. equipment that analyses the spectrum of absorbed light of a dye in a coloured solution.

This analysis is essential for studying and optimising dyeing processes and controlling principal qualitative characteristics, such as:

- the uniformity of dyeing
- the reproducibility of dyeing
- the compatibility of dyestuffs
- control of the degree of absorption of single dyestuffs
- optimisation of the duration of processes
- energy savings
- water consumption
- optimisation and savings by using auxiliary and chemical products.

The Spectrodye is an innovative, original and highly accurate system.

The Spectrodye is an innovative, original and highly accurate system developed by Technorama to analyse transmittance using an optical device, in dye solutions or dispersed dyes. This analytical tool can measure continuously and in real time, the presence of one or more dyestuffs in a liquid, recording the relative single concentrations present during each reading operation. The Spectrodye can successfully be used in the laboratory dyeing machines (DOS & DYE Spectrodye) and in the bulk production ones (Spectrodye system).

In both cases, machines equipped with this system become 'smart', i.e. they can save and provide all the information needed to have an in-depth knowledge of all technical aspects of the dyeing cycle and of the changes that occur inside the machine in real time and with the utmost precision. The Spectrodye system can be used to obtain a complete and true picture of what is happening during the entire dyeing cycle, step by step, e.g. the checking of the amounts of dyestuffs present in the bath at the start of the cycle, pH value, temperature the exhaustion of single dyestuffs during the process conditions change, and finally, the checking of amounts that are discharged during the various washing phases. Simple comparative controls can also be performed, checking the yield of different batches of single dyestuffs and their dyeing compatibility, thus improving the quality of procurements and avoiding waste and errors.