



Carbon emitters dry textile print on t-shirts

Carbon infrared emitters optimize the drying of prints on T-shirts and other textiles in dryers by Calmatech BV, The Netherlands. Compared to the previously used halogen emitters, they use energy much more efficiently and only need half the time.

Calmatech BV is a worldwide known manufacturer of flash cure dryers and tunnel dryers for textiles. The dryers can be used on different carousels as well as on mobile stands.

The heart of the dryers are medium wave carbon infrared emitters from Heraeus, which replaced conventional halogen emitters. The carbon emitters are so cleverly arranged in the dryer that a very even heat distribution on the textile surface is achieved. The medium wavelength is optimally suited for drying on the surface.

In contrast, the short-wave halogen emitters used previously emitted much energy through the paint and the textile. For example, drying every screen ink with the halogen emitters took seven to eight seconds, while carbon emitters now only need two to three seconds. In addition, the system is no longer unnecessarily heated with. Carbon infrared emitters respond in seconds and are therefore suitable for pulsing; they only have to be switched on when they are needed. In contrast, the halogen emitters had to be kept constantly on standby and thus consumed power permanently.

Jurgen van Oostrum, Managing Director at Calmatech BV, is convinced: "The switch to carbon infrared emitters has made our textile flash cure much more efficient. Our customers particularly appreciate the power savings due to the low drying times and the textile-friendly heating. This not only dries the surface more gently and without textile discoloration, but also the print pallet is not overheated."



Features

- Drying of prints on T-shirts and other textiles
- targeted heat at the surface prevents overheating of surroundings
- high energy efficiency through infrared emitters
- Replacement of up to 24 short halogen emitters with a maximum of nine carbon emitters

Technical Data

- Medium wave carbon infrared emitters
- Reflector plate behind the emitters
- Drying of each screen ink in 2 - 3 seconds
- easily programmable control by operator or automatic control

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