SUBSTRATE COOLING

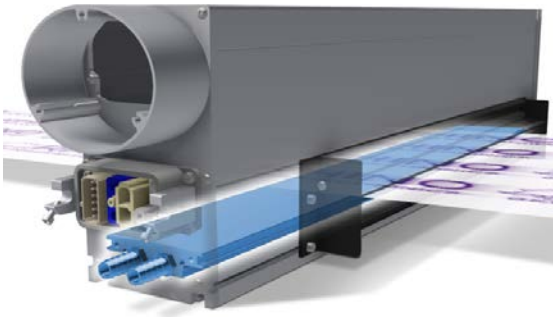
The Problem

The curing of ink on unsupported heat-sensitive materials can result in web distortion, particularly where heavy, dark areas of ink are being applied.

The Solution

By wrapping the heat-sensitive material around a water cooled roller as it passes under the UV lamp any heat build-up or web distortion are eliminated.

If there is no space for a chilled roller on the machine, a water cooled heatsink can be fitted beneath the lamphead in place of the standard air cooled heatsink.

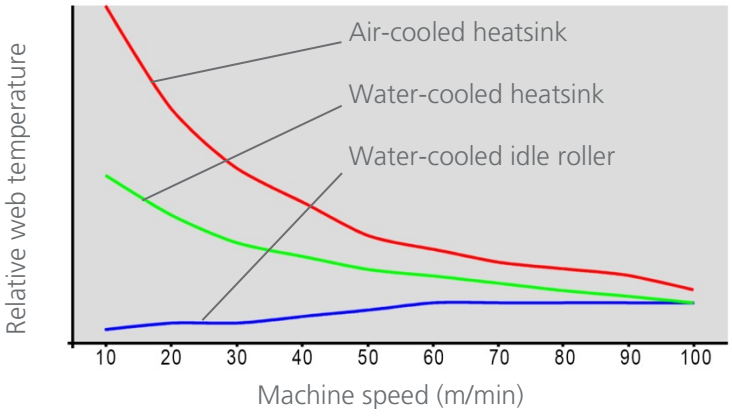


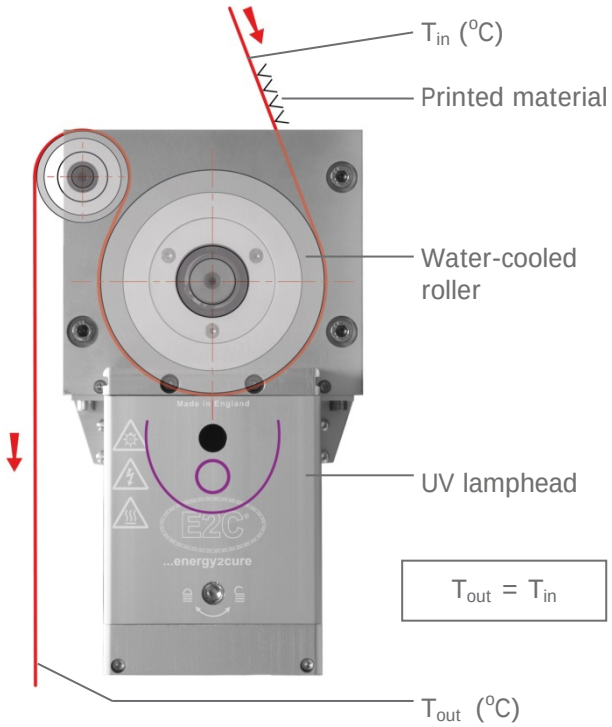
Standard water-cooled heatsink.

Benefits of the GEW water cooled roller

- Unsupported film down to 20 micron can be successfully processed on virtually any printing machine.
- No temperature rise through the dryer.
- Web temperature can be controlled, important for cationic ink curing.
- No need for mechanical drive: low friction water unions and a low inertia design means the roller turns easily from the movement of the web alone.
- Precision construction ensures press registration is accurately held.

Temperature Effects





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