DaTARIUS

Press release

The facts about DisCo cooling units.

The DisCo cooling unit for injection moulding machines has been on the market for nearly two years now. Several major replication sites and pressing plants all over the world have installed DisCo units on their moulding machines, replacing the standard built-in temperature controllers.

The DaTARIUS Process Control Team has been in touch with these customers and recently made a market research on the status of DisCo units on the market. In general the DisCo cooling units are well received, in spite of the fact that a few companies showed some hesitation before applying the rather unknown and revolutionary cooling technology of DisCo.

Apart from the benefits and features that were clear after the testing period at several sites (such as an enlarged process window, better dishing and birefringence values, low-cost and easy maintenance, no pumps), now, after DisCo has been installed on different brands of moulding machines for a longer period of time, also following advantages have been reported by many a replication site:

- Better **cooling behaviour** over a long period of time: the DaTARIUS Process Control Team has been able to prove that if a DisCo Unit is mounted, the mould channels get less polluted, which results in a longer life time of the moulds and less maintenance down time.
- If an injection moulding machine runs with a DisCo cooling unit, **less energy** is needed: DisCo requires 1.5 kW, normal temperature controllers 8 kW.
- In most cases **start-up behaviour** of machines equipped with a four-loop DisCo unit is much better, since the temperature of both the punch and the sprue bushing is controlled as well.
- Also if mounted on moulding machines producing **smart cards**, the DisCo cooling unit has proven to improve the overall production level.
- **Less space needed** than with standard built-in cooling units: where four standard temperature controllers are needed, one 4-loop DisCo unit can be mounted.
- DisCo has shown a **positive influence on the signal I11**, due to the opportunity to heat the incoming water as well.

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‘The DisCo unit is able to keep the temperature at 35 degrees Celsius, which results in a reduced cooling time, less rejects and HF signals, which are around 4% better.’

WMME Germany