



DaTARIUS releases MF DisCo Cooling Unit for Optical Media production.

At Media-Tech Expo 2002, Frankfurt, DaTARIUS Technologies GmbH (booth 8G28) will release the Mutli Format (MF)DisCo Cooling Unit for Optical Media moulding machines.

The DisCo direct Cooling Unit has been on the market for about two years and has very successfully been applied for CD moulding processes at most of the major CD replication sites worldwide.

The same technique (direct pulsed cooling) is now also available in one unit for all optical media applications. In order for the MF DisCo Unit to be used for DVD production as well, the unit has been further developed. The major difference between CD and DVD production is the temperature at which the 0.6 mm DVD half discs are moulded. To guarantee a good pit structure with DVD, discs need to be moulded at about 90 degrees Celsius. The discs, however, are only 0.6 mm thick and will therefore absorb less energy than 1.2 mm discs. This means that these discs require less cooling as well. And exactly here lies the most challenging part: the cooling time cannot simply be reduced, since a certain minimum time is required to ensure all coolant used during one cycle is replaced by 'fresh coolant' in all mould channels for the next cycle. The solution: via a pump, extra pressure is generated to ensure the coolant is removed after each cycle.



The main advantages of this cooling technique compared to standard mould heaters are:

- a better overall cooling behaviour – larger process window,
- less energy needed,
- a better start-up behaviour after a machine standstill (mould changes, re-settings),
- less space needed (one DisCo instead of four standard cooling units) and machine-mounted, so no floor space required,
- easy installation & operation,
- lower maintenance costs.

For further information, visit us at the Media-Tech Expo 2002 Hall 8 Booth 8G28

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