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PRESS RELEASE

Blown film secondary cooling: Kdesign presents new CENTRO-Freeze 2 output booster

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Kdesign, a subsidiary of the Reifenhäuser Group and leading supplier of cooling, measuring and calibration technologies for blown film extrusion, is presenting the new CENTRO-Freeze 2 at K 2025. The successor to the successful CENTRO-Freeze secondary cooling system sets new benchmarks in terms of cooling capacity and energy efficiency - with an even more compact design.

The CENTRO-Freeze 2 ensures a significantly better temperature reduction of the film bubble by up to 30 degrees Celsius. Where output rates were previously limited by film blocking problems, the system significantly increases throughput - by up to 25 percent. At the same time, producers can reduce or even completely avoid the use of anti-block additives. This makes the CENTRO-Freeze 2 a problem solver, especially in warm ambient conditions, low hall heights or film recipes that tend to block. The energy consumption of the CENTRO-Freeze 2 has remained the same as its predecessor despite the increase in performance.

"With the CENTRO-Freeze 2, we are setting a new benchmark for secondary cooling in blown film production. The system combines reliable technology with innovative improvements - for more performance, efficiency and continuity in film production," explains Daniel Lamers, responsible for the CENTRO-Freeze series at Kdesign.

Compact design for easy integration

Thanks to its greatly reduced height, the CENTRO-Freeze 2 can be integrated into existing and new blown film lines in a particularly space-saving configuration. The use of integrated roller guide elements replaces the traditional support cage and thus simplifies integration into systems with limited height below the flattening section.

Secondary cooling enables stable processes in hot environments

By providing additional cooling before the bubble is flattened, the CENTRO-Freeze 2 effectively prevents the film from blocking on the winder.

Production process problems associated with blocking, such as the film webs sticking together when they are cut before the two winding points, are also eliminated. Even at high ambient temperatures, the production output remains constant and does not have to be reduced - for example in hot summer months.

With the integrated digital package including infrared temperature sensors, the CENTRO-Freeze 2 keeps the film temperature constant before flattening at the touch of a button and ensures a stable and reproducible process. The CENTRO-Freeze 2 also automatically follows the diameter of the bubble thanks to automatic bubble diameter tracking and replaces the supporting cage thanks to the integrated roller guide elements.

Live at K 2025 in Düsseldorf

The CENTRO-Freeze 2 is available for new and existing blown film lines from all manufacturers. Visitors can experience the system live on site at K 2025 and discuss integration, performance and individual application options with the experts from Kdesign.



The new CENTRO-Freeze 2 combines all the advantages of its predecessor with enhanced technology for more output power with the same energy consumption and a more compact design.

Picture: Kdesign

About Kdesign

Kdesign is a subsidiary of the Reifenhäuser Group and offers market-leading technologies in the areas of cooling, measurement and calibration for blown film lines. Kdesign products are available both for new systems and for retrofitting in existing systems.

About the Reifenhäuser Group

The Reifenhäuser Group together with its highly specialized business units is the leading provider of innovative technologies and components for plastics extrusion. Founded in 1911, the company is a global supplier of high-tech solutions. With its technologies and the know-how of its 1,500 employees, Reifenhäuser has the world's largest network of expertise in plastics extrusion technologies. The CEO of the Group is Bernd Reifenhäuser.