ENHANCE TECHNICAL MOULDING PERFORMANCE AND EFFICIENCY WITH THE MICROGEL

The legendary and unique Microgel Temperature Control Unit from Frigel, supplied exclusively in the UK and Ireland by Summit Systems, has recently been re-engineered with enhanced features for technical moulding sectors such as medical, pharma and automotive, increasing its already outstanding reliability, useability, and efficiency.

A proven leader in its field, the **Microgel** is renowned for improving process control and throughput with its high flow capacity and is now further increasing its lead over conventional technologies, ensuring perfect repeatability and optimal part quality whilst reducing cooling cycle times by up to 50%. Summit Systems understand that quality is not a negotiable factor, especially in challenging markets such as medical moulding, which the Microgel is perfectly engineered to support. With added pressures such as heightened energy prices seen in recent years, the benefits of upgrading to Microgel technology have never been greater.

Engineered for Performance and Efficiency

The improved Microgel range features an enhanced colour HMI layout to create a better user experience and intuitive interaction with the extensive range of standard features and monitoring points, such as pressure and flows, with graphical analysis in real time.

Behind the new styling, the temperature control unit boasts a better environmental footprint, with the refrigeration circuits now containing up to 80% less refrigerant and moved onto R410a.

Solid-state relays and mould drain kits are incorporated into each model within the range.

The popular dual-circuit model options are still available, enabling different flows and temperatures to be set on each zone.

The temperature control precision of the new range is even better than the already solid performance of the existing models, with a 50% improvement against setpoints on certain models.

A multitude of options, such as flow meters, VFD pumps and Watt meters, are available. These features enable operators to calculate true operational costs and to record exact flows and temperatures, ensuring repeatedly successful processing conditions.

An unrivalled array of machine interface communications is available with OPC-UA also now being rolled out, and additionally, for full system remote control, the units can be integrated into the Frigel MiND system, a digital supervision solution which makes the visualisation and analysis of data easy and straightforward.

How will the Microgel improve your moulding process?

- **Reduce** cooling cycle times – up to 50% compared to other models.
- **Maintain** process stability and maximise part quality using a patented process with a much higher flow rate. This ensures that the temperature of each mould remains perfectly uniform and precise.
- **Save** up to 30% electricity with the Microgel's automatic free cooling feature.
- **Decreased** footprint – super-compact design with a built-in chiller saves space in your cleanroom.
- **Optimise** best part quality with minimum cycle time through digitally synchronising your moulding machine with the Syncro model.

Rob Pritchard, Sales Manager for the Process Cooling division at Summit Systems, comments: *"Our partners, Frigel, have invested an enormous amount of design time and detailed analysis into improving this already market-leading range of innovative equipment.*

"Once proven through Summit's no commitment trials, the quality and cycle-time reduction benefits of turbulent flow, all deliverable via the latest in control, monitoring and communication technology, are changing the mindset of even the most traditionalist processors across many industry categories."

"Summit has all the in-house knowledge and the tools available within the Frigel system to help our clients optimise for tomorrow's production and energy efficiency expectations."

For more information on how the Microgel can improve your technical moulding performance, visit the Summit Systems Website, or call the Summit team on 01827 265 800.

Read more news from Summit Systems here.