

FRIGEL NORTH AMERICA (FNA) PRESS RELEASE

FOR IMMEDIATE RELEASE:

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Frigel Introduces to North America the Latest Developments in Cooling and Mold Temperature Control Solutions at NPE 2024 (Booths 3989 & 4089)

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Frigel North America will participate in NPE2024, the North American Trade Fair for Plastics Processing in Orlando, Florida from May 6 to 10, presenting the latest process cooling solutions designed especially for the following plastics fields: **automotive, packaging, medical, chemical, pharmaceutical, household, etc.**

Frigel is The Global Solutions Provider for Plastics Processor businesses and is the only player with a global footprint concentrating **only** on cooling temperature control, with more than 10,000 customers worldwide and a focus on customer businesses. Our innovation and expertise are focused on customers' industrial processes.

This year, Frigel will celebrate the **30-Year Anniversary** of our Microgel product line at NPE with new Microgel innovations! See the brief descriptions of the brand new for North America introductions of **RSY Syncro** and **RS/MD** series that follow.

Our innovative solutions are focused on:

- Maximizing productivity, thanks to important cycle time reductions
- Energy savings
- Water savings

“Simply Synchronized Proven Result” - RSY Microgel™ Syncro will be officially launched in North America, with its own brand and identity. Our target is to establish a **New Technology Standard** - another Frigel paradigm shift.

“Engineering a More Efficient and Sustainable Industry” - Sustainability means meeting our own needs without compromising the ability of future generations to meet their needs. The design and development of the new 4DK Adiabatic Cooler family has been conducted having as goals the improvement of all key performance indicators (KPI) linked with the environment, less kW of electricity per ton of cooling and lower usage of water (up to 95% less).



Visit us and meet our technical people, as they will be able to show you the best solutions for your precise industrial process. Learn about our important innovations in cooling and temperature control systems:

- **The New Microgel™ RSY Syncro** (provides an important increase of productivity up to 50%)
- **New 4DK Series Adiabatic Coolers** (patented, centralized, closed-circuit adiabatic cooling systems designed to replace old cooling tower technology)
- **The New 3PR 4.0 Control System** provides complete real-time control of the entire Frigel central cooling system (parameters, functions, alarms, etc.).
- **A Wide Range of Upgraded Models: Microgel™ RSM/RSD Series** provides an optimized mechanical design, increased reliability and a wide range of options. Powerful pumps and precise temperature control up to 194°F (90°C) ensure long-term high performance and product quality improvement with minimal cycle cooling times.

Microgel™ Syncro

Frigel introduces to the North American market Microgel Syncro, the new machine-side unit that revolutionizes the temperature control method for injection molding. Microgel Syncro technology allows for drastic reductions in cycle times (up to 40%), while maintaining the surface quality, dimensional characteristics and mechanical performance of the finished products. The reduction of the total cycle time is obtained thanks to the reduction of the cooling time only: this result, achieved through the digital synchronization with the molding process, has the great advantage of not requiring modifications to any of the mold design or molding parameters, making the system communicate with the press while remaining completely autonomous and easily implemented by operators.

Microgel™ RSY Syncro Series

The Microgel Syncro product line features more than 10 models, with cooling capacities from 4.5 to 16 tons and heating capacities from 12 to 24 kW.



The big difference compared to the traditional method consists of the fact that the Syncro control unit supplies cold water to the mold **only** during the cooling phase, drastically reducing its duration. The advantages for the customer are easily understood: increased productivity and profitability of the dedicated production cell, against an investment with an average payback time of less than 6 months.



ECODRY 4DK Series

Closed Loop Adiabatic Fluid Coolers with enclosed chambers and patented booster cooling technologies

Frigel expands its adiabatic product family line, introducing the Ecodry 4DK series, designed to allow for flexible configuration of modular adiabatic solutions for small to large plastic factories. 4DK takes advantage of some of the technological advances already introduced in the LDK range (new efficient PADs, new generation of EC fans, modular design, wide and deep configurations).

4DK is characterized by a high efficiency humidification system (COOLPAD™) and by a new generation of EC fans which, combined with a more effective dry cooler, obtain a new level of compactness in a powerful new adiabatic cooler product line.

The new Ecodry 4DK is designed to integrate easily into existing Ecodry 3DK systems, of which Frigel has an existing installation base of thousands of units, in addition to responding to the new needs of industries - energy efficiency, sustainability and saving of raw resources such as water.

ECODRY 4DK Series



NETGEL 3PR 4.0

Industry 4.0 Intelligent Central System Control Platform

The 3PR 4.0 product platform is a Frigel solution that provides complete control of Frigel central cooling systems. 3PR 4.0 control meets the needs of processors to supervise and manage the entire cooling system from a single control point. All the connected central system components are controlled via a unique control panel that has been designed specifically for Frigel systems. 3PR 4.0 is available in two versions, Lite and Premium, depending on the size of the system and the equipment to control.

Full native connectivity to MiND™ and its new HMI (Human Machine Interface) offer a flawless user experience and compatibility with Industry 4.0 architectures, providing easy visualization and process diagrams of the connected equipment, dashboards for main parameters, performance graphs and alarm management and history.



NETGEL MiND™

Industry 4.0 Central System and Machine-Side Web Interface and Monitoring Platform

Frigel releases to North America the MiND™ 2.0 platform, the evolution of its Industry 4.0 concept. MiND™ 2.0 is an innovative digital solution to meet the ever increasing needs of modern companies to reach Industry 4.0 and IIOT (Industrial Internet of Things) standards. MiND™ 2.0 is now able to provide customers a perfect supervision and maintenance tool for all Frigel equipment and accessories, both central and machine-side, allowing for monitoring and management of all working parameters and events and registering performance and energy consumption of every single cooling system component through a multifunctional user interface, both locally and remotely, through a user-friendly webpage.



HB-Therm Thermo-6 Series High Precision Single Zone Water TCUs

Frigel North America, the exclusive sales, parts and service distributor in North America for HB-Therm TCUs, introduces the **ALL NEW** Thermo-6 product line at NPE. Equipped with standard VFD, seal-free, reversible, stainless steel pumps, all new non-contact heater design with life-time warranties, 8 to 16 kW heating capacities and sleek new cabinet design, these closed-circuit TCUs are built with Swiss technology and uncompromising mechanical and control features. These units include standard features, such as ultrasonic flow meters, new large 7 inch touchscreen HMIs, e-cockpit via Bluetooth and Wi-Fi, ethernet connections and several interface protocols.



Microgel™ RS Series

The distinctive product line of the Frigel brand - High performance Single and Dual Zone TCUs with Booster Pumps and Integrated Portable Chillers

Frigel releases the new full range of the Microgel RS Series for injection molding to North America. These unique single zone (RSM) and dual zone (RSD) machine-side temperature control units are designed for molding throughputs ranging from 20 to 530 lbs/hr. The new Microgel RS range includes important advancements in temperature accuracy over the entire control range (23 to 194°F), functionalities, pumping performance and overall energy efficiency. The RS range features additional configurations specifically designed for Packaging (RSP) and Extrusion (RSB). Options such as flowmeters, VFDs, return/remote temperature sensors enable full process control capability. Its new user interface offers a flawless experience and full connectivity and interoperability via the Frigel MiND™ platform.



ABOUT FRIGEL GROUP

The Frigel group has an international structure with offices located all over the world and consists of seven production sites, two of which in Europe (Florence and Padua), one in the United States (Chicago), two in Asia (Thailand and India), four commercial subsidiaries (Germany, Poland, Italy) and fifty-one distribution points (a worldwide network of agents and distributors). Our goal is to "Design a more efficient and sustainable industry". For decades we have been designing, manufacturing and installing efficient and technologically advanced solutions for the cooling of industrial processes. The Frigel range has been designed to cover a wide range of solutions, from machine-side to large centralized systems.

Frigel products and solutions are designed to meet the cooling and temperature control requirements of industries such as plastics and rubber, food and beverage, power generation and transmission, data centers, chemicals and pharmaceuticals, metals and others. Frigel has gained in-depth knowledge of the thermodynamic requirements of industrial processes, enabling it to design "tailored to the application" equipment and systems to meet the specific needs of each process.

Four key factors guide the design of optimal solutions for each customer – productivity, efficiency, sustainability and reliability.

OUR PURPOSE: engineering a more efficient and sustainable industry

OUR VISION: Be a global innovator of high performance, sustainable and quality engineered solutions for process cooling and temperature control technologies



FRIGEL NORTH AMERICA

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