



Microgel™

High-Efficiency Cooling



The Microgel family of packaged industrial chillers is unique, versatile and stands alone as the most accurate and efficient product line today.

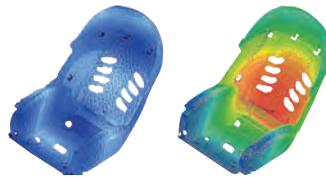
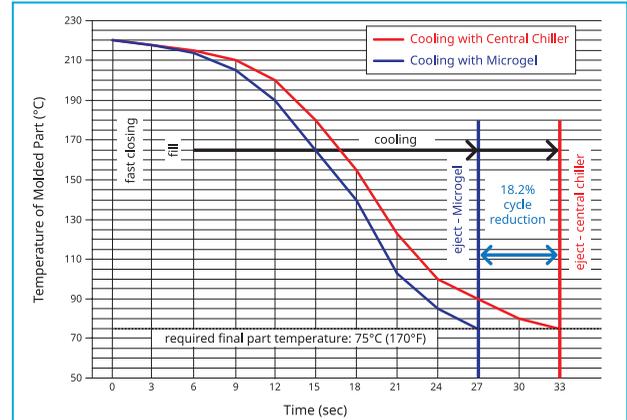
All Microgel products are designed to deliver constant high pressure and flow to process, resulting in turbulence and optimal heat transfer. Proprietary controls and standard 3-way modulating valves provide the ultimate in temperature control accuracy to $\pm 0.5^{\circ}\text{C}$ ($\pm 1^{\circ}\text{F}$).

Imagine the Possibilities...

Immediate Productivity Improvement

Machine-side high efficiency Microgel units designed for high flow/pressure and optimum temperature control.

- Turbulent flow and temperature control accuracy for maximized productivity
- Improved cycle times, typically as much as 20%



- Consistent cooling parameters result in elimination of hot spots and increased product clarity and quality
- Repeatable production, cycle-to-cycle and cavity-to-cavity

- Simplified machine-side installation
- Complete local temperature control flexibility
- Automatic filling of cooling circuits
- Available mold drain kits for evacuation without reversing pumps or damaging compressed air
- Standard modulating temperature control valves eliminate water hammer, while maintaining optimum accuracy



Dual Zone Simplicity

And Unparalleled Connectivity

Frigel once again proves its leadership position in process cooling. Comprehensive controls with 7" or larger touch screen displays and synoptic views of all water and refrigeration circuits provide users with all operating parameters.

- All refrigerant and water side parameters are clearly indicated in selectable full-language readouts
- Built-in Ethernet and Wi-Fi connections and Internet connectivity
- Modbus RTU over RS-485 or Modbus over Ethernet for connection with building management systems
- Display and recording of power consumption and historical energy use and cooling capacities
- Remote real-time service by Frigel technicians
- Historical logs for operating data and alarms
- On-board troubleshooting and maintenance guides



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RCM/RCD

Water cooled units designed with chiller and temperature control circuits in single compact cabinets.

- RCM with one TCU zone
- RCD with dual TCU zones
- Temperature range per zone from 0 to 90°C (32 to 194°F)
- Optimum flexibility and installation convenience
- 3-Way motorized modulating valve per zone for precise temperature control and elimination of damaging water hammer
- High flow process pumps for ΔT as low as 1°C (2°F) for RCD units
- Standard recirculation pumps for long evaporator life
- Integral free-cooling valves for operation with Frigel Ecodry (or other clean water) systems
- Automatic shut-down of the compressors for large energy savings, depending on ambient and set point conditions
- Stainless steel reservoirs, evaporators & condensers and corrosion-free piping throughout



RCP

Single zone water cooled chillers designed for high flow/high pressure requirements.

- PET preform molding, large part blow molding, high speed multicavity injection molding
- 7 to 30°C (45 to 86°F) operating range
- Cleanable shell-and-tube condensers for use with cooling towers
- High efficiency, high flow/pressure process pumps and standard evaporator recirculation pumps
- Optional free-cooling when used with Frigel Ecodry (or other clean water) systems, operating conditions permitting



RCX

Microgel RCX series units designed for use with cooling tanks that are open to atmosphere – typically plastic pipe/profile extrusion troughs. Identical to the RCM series, but also equipped with isolation heat exchangers and integral cooling bath recirculation pumps.



Let's Discuss Your Application

Contact the Frigel team today to get the world's most efficient cooling – optimized for your needs.



RAM/RAD

RAM and RAD series Microgel units are air cooled stand-alone units. This series is available in single or dual zone configuration with independent temperature control circuits identical to the RCM/RCD series.



CT Version

Microgel RCM, RCD and RCX models are available with an option for use with open cooling towers, including condenser pressure drop monitoring and condenser fouling notification. Consult your representative for more details.



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