

INNOVATIVE Application Solutions



Plastic Processing

The Plastics Industry grew dramatically after World War II, creating a demand for consistent quality, complex designs and higher production volumes. This triggered the development of process heating and cooling equipment to regulate molds, dies and polymer temperatures.

There is an endless list of Thermoplastic and Thermoset applications producing millions of different components used by consumers in virtually all industry sectors.

Typical Industries include: Aerospace, Armed Forces, Automotive, Biotech, Housing, Leisure, Life Sciences, Medical, Optical, Pharmaceutical, Semiconductor, Sports and many more.



Compact water system with stainless steel as the main component for wetted surfaces



Solution

A manufacturer of injection molded electrical connectors for automotive, aeronautical and other applications was having difficulty maintaining the mold temperature and flow of plastic. Mokon's design engineers went to work calculating the heating and cooling loads to insure we were selecting the right system and options to meet the customer's specifications.

Mokon recommended their compact Hydrotherm design which offers faster heat up and cool down times compared to competitive units that were too large and slow to react. We provided a comprehensive temperature control solution that minimized waste and reduced time required to change tools and start equipment. Production goals were exceeded and our extremely satisfied customer maximized product output and improved quality.

The customer was so impressed with the performance and features they now have a Mokon water temperature control system on all of their 72 injection molding machines.



Designed to Perform. Built to Last.

Plastic Processing

MOKON

Mokon's experienced application and product engineers are available to provide assistance in the selection and sizing of process temperature control systems. We offer the following services:

1. Performing engineering assistance in calculating heating and/or cooling loads required for your specific application
2. Determining the added heat load that the Mokon equipment will add to the plant HVAC system
3. Provide a detailed quotation of the Mokon heating and cooling equipment that best meets your specifications
4. A variety of mechanical, electrical and electronic options available to provide a durable and accurate temperature control system



Dual zone water system providing two independent zones of control from one location

Mokon Products and Capabilities:

- Water and Heat Transfer Oil Systems
- Portable and Central Chillers
- Custom Designed/Engineered Systems
- Single and multi-zone circuits
- Combination heating and chilling systems
- Closed and open loop circuitry
- Cleanroom and wash down designs
- Local and remote control functions
- Remote set point and re-transmission controllers and communication ports
- Sanitary environments

Typical applications include:

- Blow Molding
- Calendering/Roll
- Compounding
- Compression/Transfer Molding
- Extrusion
- Injection Molding
- Thermoforming
- Vinyl Dip



Compact water system ideal for small tonnage molding machines and lab applications



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2150 Elmwood Avenue, Buffalo, New York 14207 • Ph 716-876-9951 • Fx 716-874-8048 • sales@mokon.com • www.mokon.com

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