



## **MOD-TRONIC Highlights the Versatility and Durability of Silicone Flexible Heaters in Industrial Applications**

*September 12, 2025*

BRAMPTON, ON - September 12, 2025 - PRESSADVANTAGE -

MOD-TRONIC, a leading distributor of advanced heating solutions, announces continued innovation and reliability in the use of silicone flexible heaters for a wide spectrum of industrial and commercial applications. Renowned for its expertise in thermosetting silicone rubber heating technology, MOD-TRONIC has positioned silicone flexible heaters as a key component for applications requiring rugged performance and precise temperature control.

Silicone flexible heaters from MOD-TRONIC are crafted from silicone rubber, an elastomer renowned for its exceptional temperature resistance and mechanical durability. These heaters sustain optimal performance at temperatures up to 235°C (455°F), making them ideal for environments where both flexibility and thermal stability are paramount. The combination of high heat tolerance and mechanical flexibility ensures these heaters can conform to complex surfaces and maintain consistent heat distribution, attributes that are especially important in industrial processing and precision equipment.

One of the defining features of MOD-TRONIC's silicone rubber heaters is their rugged construction, which guarantees high reliability even under demanding operating conditions. The heaters' robust design enables

them to withstand thermal cycling and mechanical stress, reducing the likelihood of failure and extending operational lifespan. This strength makes them well-suited for heavy-duty applications ranging from graphic imaging and medical devices to outdoor electronics and food service equipment.

The unique ability to custom profile heat density is a standout advantage of MOD-TRONIC's silicone flexible heaters. By adjusting the distribution of power across the heating element, one can deliver uniform temperature profiles that optimize heat transfer. This capability not only improves processing yields by ensuring consistent thermal conditions but also minimizes energy consumption by focusing heat where it is most needed. Such precise thermal management is critical in sensitive applications like thermal developing in graphic arts or controlling condensation in instrument enclosures.

In addition to high-temperature capability, these flexible heaters from MOD-TRONIC Instruments Limited are factory vulcanized, allowing them to bond securely to metal substrates and other shapes. This process enhances heater durability and performance, enabling applications where direct adhesion and long-term stability are mandatory. The factory vulcanization also supports higher watt densities, with custom resistance options up to 200 watts per square inch, facilitating faster processing cycles and enhanced throughput in industrial production lines.

Safety and compliance have also been a priority for MOD-TRONIC. The silicone flexible heaters carry important certifications including UL and TÜV component recognitions, ensuring that they meet rigorous industry standards for electrical safety and thermal performance. Such certifications provide customers with confidence that the heaters are reliable and safe for use in critical environments.

The versatility of MOD-TRONIC's silicone rubber heater selection is further expanded by the inclusion of custom installation options. Heaters can be equipped with integral snaps, straps, or Velcro® attachments for easy and removable mounting. These options streamline maintenance and enhance operational flexibility, particularly in applications where heaters may need to be repositioned or replaced frequently. Additional customization options include thermostats, temperature sensors, cutouts, wiring harnesses, and connectors tailored to fit specific operational requirements.

The wide chemical resistance of the silicone material adds another layer of practicality to MOD-TRONIC's heaters. This attribute makes them suitable for many industrial environments where exposure to chemicals is common, although they are not recommended for continuous exposure to oil, vacuum, or radiation. MOD-TRONIC ensures that customers are well-informed regarding the operational limits of silicone rubber to maximize heater performance and longevity.

MOD-TRONIC's silicone flexible heaters come in a variety of sizes and shapes, with custom options accommodating dimensions up to 22 inches by 90 inches (560 mm by 2285 mm). This scalability supports

applications ranging from small instrument enclosures to large vessels and aircraft engine components. Alongside dimensional flexibility, the heaters maintain a thin profile of only 0.008 inches (0.20 mm), enabling them to fit into tight spaces without compromising thermal output.

Steven Ruple, President of MOD-TRONIC Instruments Limited, said, "Our silicone flexible heaters embody the perfect blend of durability and adaptability needed for today's industrial challenges. We continuously invest in refining our technology and customization capabilities to ensure our clients receive heating solutions that not only meet but exceed their operational expectations. The versatility and resilience of these heaters are why many leading manufacturers choose MOD-TRONIC as their trusted partner."

As global industries demand ever-greater precision and reliability in thermal management, MOD-TRONIC's silicone flexible heaters are increasingly recognized as a vital component in the advancement of manufacturing processes and equipment safety. With a track record of proven performance and a strong focus on customer-driven customization, the company remains at the forefront of silicone heater technology.

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### **MOD-TRONIC Instruments Limited**

*MOD-TRONIC is a distributor of fourteen high-quality manufacturers of industrial Sensors, Transducers, Heaters, Controls, and Instrumentation. We are very proud to say that the majority of the products we sell are made in the USA.*

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