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BATTERY  
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TECHNOLOGIES

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## HEALTHCARE COLD CHAIN

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When shipping many healthcare related items such as vaccines, pharmaceuticals and certain cultures or other samples, it is critically important to maintain the cold chain at all times. There is a lot of time and money invested in healthcare shipping, as well as people's health and lives being on the line. With so many factors relying on successful shipping, great care must be taken to protect the cold chain. The Logistics Portal discusses the importance of the cold chain in their article, "Cold Chain-When Temperature Changes Can Cost Millions;" they note that, "An estimated 25 percent of all healthcare products are temperature-sensitive, meaning they require refrigeration during transportation and storage. Products sometimes have a short window of viability, which makes fast transport essential. Moving these life-saving products to markets throughout the continents requires cold-chain shipping. Cold chain shipping keeps products at a consistent temperature from point of origin to final destination. Temperature monitoring and maintaining the proper packaging environment during transport are very critical to maintaining viability of these high value shipments." Healthcare shipping, including vaccines and pharmaceuticals, has been globalized. There is a need for a safe shipping method that can maintain the cold chain while shipping great distances.

#### ADDITIONAL HEALTHCARE COLD CHAIN BENEFITS

The MicroQ iQ shipping device is a temperature sensitive portable shipping device that is an incredibly reliable way to maintain the cold chain while shipping. The iQ shipping device is capable of active heating and cooling and is controlled by a microprocessor. Whether shipping just a few miles or internationally, the MicroQ iQ shipping device will adapt to any changes in ambient conditions so that the internal temperature remains constant. The device constantly monitors temperature and when shipping is complete, you can recharge the device, and program it for your next needs and send it on its way again. It is a completely reusable device as well as durable and lightweight. All of these factors play a huge roll in properly maintaining the cold chain throughout transport. Quickstat also makes note of cold chain shipping logistic challenges, "Cold chain shipments often have to be transported to obscure parts of the world under strictly controlled temperature conditions. Making sure that clinical specimens, vaccines, drugs or other biological reach their destination safely, securely and at the right temperature is a critical element of the drug discovery process." With the MicroQ iQ shipper, you will have peace of mind that the cold chain will be constantly maintained and that your shipment will arrive in optimal condition.

#### Benefits of Micro Q Technologies



- Active precision heating or cooling
- Temperature LCD display resolution =  $0.1^{\circ}\text{C}$
- Temperature control range  $0^{\circ}\text{C}$  to  $42^{\circ}\text{C}$
- Rechargeable battery with integrated power supply
- Ambient Temperature range  $-20^{\circ}\text{C}$  to  $50^{\circ}\text{C}$



- Temperature holding duration 24+ hours to 168+ hours
- Microprocessor controlled heat pump
- Tamper resistant key switch
- Temperature control resolution =  $0.0625^{\circ}\text{C}$



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