

# MICRO Q TECHNOLOGIES

## PHARMACEUTICAL SHIPPING DEVICE

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Whether treating patients or being tested in clinical trials, pharmaceuticals are incredibly important. Pharmaceuticals are tested for safety in clinical trials, studied as potential treatments for an array of diseases and used to save lives and are therapeutic for certain conditions. From the point of manufacture to clinical trial facilities, laboratories, pharmacies and third world countries, pharmaceuticals are shipped all over the world. Hofstra University discusses the logistics involved in shipping pharmaceuticals along the cold chain, "Within the pharmaceutical industry for instance, the testing, production and movement of drugs relies heavily on controlled and uncompromised transfer of shipments. A large portion of the pharmaceutical products that move along the cold chain are in the experiment or developmental phase. Clinical research and trials is a major part of the industry that costs millions of dollars, but one that also experiences a failure rate of around 80%. According to the Healthcare Distribution Management Association about 10% of drugs are temperature sensitive. If these shipments should experience any unanticipated exposure to variant temperature levels, they run the risk of becoming ineffective or even harmful to patients." Temperature sensitive pharmaceuticals may encounter a number of potential hazards when being shipped.

Depending on the distance shipped, they may encounter extreme changes in temperature or humidity. Pharmaceuticals manufactured in New York that are then shipped to somewhere in South Africa will, undoubtedly, experience significant changes in ambient conditions. With a pharmaceutical shipping device, such as the MicroQ iQ shipper, pharmaceuticals will be protected under any circumstances. It is a temperature sensitive shipping device capable of active heating and cooling. It is controlled by a microprocessor so it is incredibly accurate and can adjust itself to ensure the desired temperature is maintained at all times. The MicroQ iQ pharmaceutical shipping device is also incredibly durable as well as lightweight. It can easily be shipped with couriers such as FedEx and UPS and will help keep shipping costs low. Additionally, it is a "green" shipping device because it is completely reusable. The pharmaceutical shipping device just needs to be recharged and reprogrammed and can then be used again for any additional shipping needs. Pharmaceuticals are life-altering therapies and life-saving treatments that hugely impact the lives of many people. Pharmaceutical companies also have billions of dollars invested in these pharmaceuticals. If a shipment is damaged during transport it not only means a significant amount of lost money but it also means patients will not receive the treatments they need. When shipping, it is incredibly important to choose a reliable and accurate pharmaceutical shipping device to ensure the shipment arrives ready to be used.

### Benefits of Micro Q Technologies



- Active precision heating or cooling
- Temperature LCD display resolution = 0.1° C
- Temperature control range 0° C to 42° C
- Rechargeable battery with integrated power supply
- Ambient Temperature range -20° C to 50° C



- Temperature holding duration 24+ hours to 168+ hours
- Microprocessor controlled heat pump
- Tamper resistant key switch
- Temperature control resolution = 0.0625° C



#### LOCATION

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