

MICRO Q TECHNOLOGIES

BIOPHARMACEUTICAL COLD CHAIN

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Every day, medicine and technology continue to evolve and grow. New treatments and drugs are created to help patients but as medicine and technology change, so do the logistics of transporting them. The Berkeley Center for Health Technology discusses biopharmaceuticals and the way they are transforming medicine, "Biopharmaceuticals and therapeutic agents intended to treat symptoms and/or underlying causes of a variety of disorders and diseases. The primary difference between biopharmaceuticals and traditional pharmaceuticals is the method by which drugs are produced: the former are manufactured in living organisms, such as bacteria, yeast, and mammalian cells, whereas the latter are manufactured through series of chemical synthesis." Hundreds of biopharmaceuticals are being developed and tested every year and hold a lot of promise. Because biopharmaceutical clinical trials are taking place all over the world, a great deal of shipping is involved between labs, clinical trial facilities and medical centers. Biopharmaceuticals contain living organisms and maintaining the cold chain throughout transport is incredibly important. Pharmaceutical Outsourcing notes the challenges involved in shipping biopharmaceuticals, "Biopharmaceuticals and vaccines contribute to a majority of shipments of temperature-sensitive pharmaceuticals, which are typically high in monetary value and have low product volume.

ADDITIONAL BIOPHARMACEUTICAL COLD CHAIN BENEFITS

With the surge in mail order shipments, increasing scrutiny by regulatory agencies, and the desire to lower costs, the need to develop an effective and reliable cold chain management system is critical. Multiple uncontrollable factors are present in mail order cold chain systems, where small errors can result in major cold chain failures, causing many industry challenges." With such high value temperature sensitive contents being shipped daily, the use of a temperature sensitive shipping device is incredibly important. With a device like the MicroQ iQ shipper, the biopharmaceuticals will be continuously monitored and temperature controlled by a microprocessor. The device is capable of active heating and cooling, so, should there be any fluctuations in ambient conditions, the device ensures the desired temperature is continuously maintained. The MicroQ iQ shipper can easily be shipped with any carrier such as FedEx or UPS and can handle any distance as it is lightweight but incredibly durable. The device is also reusable and simply needs to be recharged and sent along again. Because the device is reusable it will significantly save on the cost of shipping over time and will also eliminate the need for wasteful disposable containers. The MicroQ iQ shipper is the ideal biopharmaceutical shipping device. It will protect the contents and ensure they arrive in ideal condition for safe and effective use.

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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