

# MICRO Q TECHNOLOGIES

## VACCINE PORTABLE SHIPPER

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Vaccines are incredibly important in the protection of individuals and communities against a variety of diseases. There are many vaccines we receive as children such as the polio vaccine or the MMR (measles, mumps and rubella) vaccine. Thanks to these vaccines modern generations have never experienced the rampant spread of such horrible diseases. There are also seasonal vaccines, such as the influenza vaccine, that protect us against new strains of the flu each year. Vaccines protect us from birth and throughout our whole lives, not only in America but in every corner of the world. Vaccines are shipping from pharmaceutical manufacturers to local pharmacies, hospitals, medical facilities, other countries and remote villages in every part of the world. Because vaccines are shipped so frequently and over such great distances, a reliable shipping device is incredibly important. Vaccines are temperature sensitive and temperature excursions during shipment could be very problematic. The World Health Organization discusses the logistics involved in shipping vaccines, "All vaccines are sensitive biological substances and all will lose their potency - that is, their ability to give protection against disease - with time. This loss of potency becomes faster as vaccines are exposed to higher temperatures. In order to maintain their quality, all vaccines must be continuously stored at the appropriate temperature from the time they are manufactured up until the moment of use.

### ADDITIONAL VACCINE PORTABLE SHIPPER BENEFITS

Once vaccine potency is lost, it cannot be regained or restored, and without proper care, any vaccine may eventually lose all its potency. If this occurs, the vaccine will no longer provide any protection against the target disease and is then useless. In some cases, heat exposure leading to loss of vaccine potency may also cause the vaccine to become more reactogenic." It is incredibly important that vaccines reach their intended recipients so that individuals and communities can be well protected from a wide range of diseases. The MicroQ iQ shipping device is a vaccine portable shipper that is capable of active heating and cooling. It will adjust to maintain the desired temperature at all times, regardless of any fluctuations in ambient temperature or humidity. The device is incredibly durable, capable of withstanding any rough handling during transport. The device is also lightweight and reusable. The device just needs to be recharged and reprogrammed and can then be sent along again. It is the "green" choice for vaccine portable shippers because you will not need disposable shipping containers. The MicroQ iQ vaccine portable shipper is the ideal device for shipping vaccines because it will protect vaccines throughout transport and help ensure that individuals and communities remain protected from diseases.

### 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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