

Established: 2017
Employees: 14

Start-up from Darmstadt
Medical device manufacturer

Milestones

Founded
2017

Seed funding
2018

Team expansion
2019

Serial production
early 2020

Pilot projects
repeatedly

Product



Management



Nico Höler



Martin Voigt

Customer segments

Clinical trials



Pharmacies



On board couriers



Hospitals



Private customers



We believe that value-driven technological innovation pushes the human race forward.

This is why we challenge our status quo every day, only to create the most sustainable, secure and convenient technological solutions possible.

We strive for giving professionals and private people access to previously unknown flexibility, freedom, and carefreeness.



Technical Details

Temperature range
0°C - 70°C inner temperature
at -10°C - 45°C outer temperature

Preset range
2°C - 8°C [cold chain]
15°C - 25°C [ambient]
35°C [incubation]

Outer dimensions
27 liter; 350mm x 350mm x 220mm

Inner dimensions
4.7 liter; 205mm x 165mm x 125mm

Weight
9.5 kilogram

Power
100 watt

Certifications



Medical fridge



Blood fridge



Labratory fridge



Compliant to IATA onboard regulations for dangerous goods



7D & 7E compliant



21 CFR part 11 compliant

Features

Tracking
temperature, humidity,
battery charge, GPS, acces,
motion, shock

RFID/ NFC smart lock
for an authorized access

Automated alarms
via email & text message

Online live-dashboard
to review your relevant data

Hinged carrying handle
for mobile & stationary usage

Multifunctional display
for greater transparency



DIN EN 61010



CFR 47 part 15 compliant



EMV & RoHS



61010 Laboratory equipment



IEC 61010



3-point calibrated sensor

Press Statement

Tec4med Lifescience GmbH is a young start-up company from Darmstadt. Founded in 2017, the company promises to develop innovative technology for the best possible benefit of people. Sustainability, flexibility, and carefreeness are at the center of our daily work.

Cold chain logistics is one of the strongest future markets in the logistics sector. Currently the transport of temperature-sensitive goods takes place exclusively via passive cooling solutions. The drugs are tempered with nothing but cold packs and dry ice. This transport leads to a high error susceptibility and additional costs.

Nelumbox is the first active cooling solution: The whole system is electrically cooled. Besides, Nelumbox collects data on in- and outdoor climate conditions. The user can review these via the cloud. Users even receive information as soon as the cooling temperature deviates.

NelumBox also offers people who require medication bound to the cold chain, the opportunity to regain freedom, mobility, and independence in their daily life.

These people face various problems every day. Spontaneously traveling on vacation - impossible. Using the fridge for storage is risky. Often there are significant temperature fluctuations. As a result, the door area is too warm and the freezer compartment is significantly too cold. These irregularities can strongly impair the effect of the medication, which sometimes can be dangerous for the patient.

In contrast to the passive cooling boxes currently in use, the NelumBox cools reliably to the individually set temperature with a patented system. It can be used stationary and mobile, with up to two days battery life. Also the passive coolers usually end up in the garbage after only a few uses, NelumBox whereas is built for the usage over many years and is, therefore, a sustainable solution.

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In everything we do, we follow our vision of sustainable, secure and convenient technological solutions that simplify everyday use and create added value for humankind.

We create solutions that support people around the world to achieve their goals, based on technological improvements, optimal user experience, and synergies of cutting-edge soft- and hardware.

By incorporating our values and beliefs directly into our product development, we at Tec4 create technology for everyone.