



ATS ADVANCED
THERMAL
SOLUTIONS, INC.
Innovations in Thermal Management®

Advanced Thermal Solutions, Inc.
89-27 Access Road | Norwood, MA 02062 | USA
www.qats.com | T: 781.769.2800 | F: 781.769.9979

FOR IMMEDIATE RELEASE:

CONTACT: Rebecca O'Day, roday@qats.com

Massachusetts Company Providing Secure, Ultra-Low Temp Freezers for COVID-19 Vax

Norwood, MA, January 14, 2021 – Advanced Thermal Solutions, Inc. (ATS) of Norwood, MA is providing ultra-low temperature freezers that can safely store biological materials, including vaccines at temperatures as low as -86°C (-123°F) with $\pm 0.1^{\circ}\text{C}$ accuracy. These include Pfizer's BNT162 mRNA vaccine for the COVID-19 virus.

Under the brand name Vostok, ATS supplies both freestanding and portable ultra-low temperature freezers for the cold chain phases of localized transportation, storage and application.



ATS' Vostok M80 cabinet freezers store biologicals including vaccines, viruses, germs, blood plasma, skin, bone marrow, sperm, and other biological, pelagic, and special test products. A range of sizes and features are available with storage capacities from 11.9 to 29.59 cubic feet (228-838 L). Their racks can hold 19,200-60,000 2ml vial samples or 192-600 2-inch boxes. The freezers can be set to precise cooling temperatures, as low as -86°C .

In the event of power failure, the freezers have a 72-hour backup system with alarm. Chart recorders and internal temperature loggers can be added via USB connection to monitor, record, and analyze environmental parameters. An optional CO_2 backup system maintains required ultra-low temperatures in the event of a power failure.

The portable Vostok PortM80 freezer has a compact, lightweight design to facilitate transport of vaccines while maintaining temperatures down to -86°C . Its cooling technology is adapted to master vibration and transportation bumps. Environmentally safe helium is the refrigerant, providing long-term, high-reliability performance.



Dr. Kaveh Azar, Founder and President of Advanced Thermal Solutions, comments, "The logistics of distributing vaccines for COVID-19 around the world are full of challenges. One is preserving these life-saving materials by keeping them safely within their very cold temperature range all the way to when they are injected. We're proud to

be among the Massachusetts companies that can support the safe storage of COVID-19 vaccines.”

The ATS Vostok ultra-low temperature freezers are ideal for hospitals, vaccination sites, local clinics, blood banks, epidemic prevention, and response services, research institutes, biomedical and chemical industries, and marine fishing industries.

All Vostok freezers are available from Advanced Thermal Solutions and can be ordered online. More information is available on [Qats.com](https://www.qats.com), or by calling (781-769-2800) or emailing the company at ats-hq@qats.com.

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About Advanced Thermal Solutions

Advanced Thermal Solutions, Inc. (ATS) has been in business for more than 25 years as a leading-edge engineering and manufacturing company focused on the thermal management of electronics. Founded in 1989 as a consulting company, ATS today provides a family of ultra-low temperature freezers and air cleansers for room-level air filtration to remove viruses, including COVID-19. ATS is also world-renowned for its portfolio of more than 5,000 high- and ultra-performance heat sinks. It provides industry-leading liquid cooling solutions, the broadest off-the-shelf line of heat pipes, expert consulting and design services, research-quality test equipment, and leading edge R&D. ATS has established its own manufacturing center in the U.S. and developed strategic partnerships with Asian manufacturers to provide its global customers with complete thermal solutions ready to tackle the industry’s toughest challenges. ATS is headquartered in Norwood, MA, about 30 minutes south of Boston. Learn more at <https://www.qats.com/>