

Portable Ultra-Low Temperature Freezers



The new energy-efficient Shuttle Portable Ultra-Low Temperature Freezer from Cole-Parmer offers secure mobile transport of high-value vaccines or biological specimens. Its functionality is ideal for biorepositories, medical/surgical suites, pathology laboratories, tissue banks, regenerative medicine, and other applications in clinical or diagnostic medicine, research, and pharmaceutical distribution.

A Stirling engine operates the low temperature freezer, which requires no compressors, dry ice, or LN₂, and expends the same volume of energy as a conventional light bulb. The Humm free-piston Stirling engine uses two moving parts that float on helium gas bearings to eliminate contact wear. The linear driver modulates engine power to deliver cooling on demand without on/off cycling. The thermosiphon evaporator freezes contents. A microcharge of environmentally

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friendly cooling medium creates a uniform ultra-low temperature via a continuous process of evaporation and condensation within the sealed tube.

Weighing 42 lbs, the portable freezer is efficient for both benchtop and field uses. A weather-resistant touchpad offers digital temperature display indicating interior temperature and error codes. It includes temperature presets of -20, -40, or -86°C and a system lock indicator. Adjust by 1°C intervals. Features visual and audible alarms.

The freezer's rugged cabinet withstands travel. Its composite vacuum-insulation panels with CFC-free foam protect contents from high ambient temperatures. When not in use, the cabinet can be stored on side, end, or upside down. A double gasket seals the interior chamber and provides dual protection against moisture and heat gain. Molded-in handles are easy to grip. Operates on both AC/DC (12V) power by simply switching the included power cord.

Cole-Parmer, 800-323-4340, www.coleparmer.com/19596 [1]

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