

Zenith Lake Biotech Under-Counter ULT-Freezer

Maximum performance in a minimal space

The ZL-86L108T ultra-low temperature freezer combines high performance with an excellent price-to-performance ratio in a compact under-counter design. With a net volume of 108 liters and space for up to 9,000 × 2 ml cryo-vials, it offers an exceptionally large storage capacity for valuable samples – ideal for laboratories looking to use floor space efficiently.

Thanks to its high cooling capacity and a temperature range of -40 °C to -86 °C, the ultra-low temperature freezer ensures stable storage conditions. Two separate interior doors and a multi-layer silicone gasket reduce cold loss when opening and support reliable temperature stability during daily laboratory operations.

With a large touchscreen, USB data export, and a quiet operating noise level of just 45 dBA, the ultra-low temperature freezer is particularly user-friendly – ideal for direct use in the laboratory and close to the workspace.



Compact. Powerful. Economical.

- ✓ Excellent value for the price
- ✓ Largest storage capacity in its class
- ✓ High cooling capacity and fast temperature recovery
- ✓ Two separate interior doors to reduce cold air loss
- ✓ Large touchscreen for easy and modern operation
- ✓ Very quiet – ideal for the laboratory workplace

Your benefits with CryoSolutions AG

- ✓ Everything from a single source: consulting, sales, service
- ✓ Many years of experience and a high level of specialization
- ✓ Fast and competent on-site service
- ✓ Backup units of various sizes available
- ✓ Complete spare parts inventory and service center in Switzerland

Features

Comprehensive Door Seal

The multi-layer silicone door seal on the outer door, along with separate seals on each inner door, minimizes heat gain and cold loss – ensuring more stable interior temperatures even with frequent opening.

Maximum Storage Capacity

Maximum storage capacity in the smallest of spaces: room for up to 9,000 2-ml cryovials – thanks to VIP-PLUS insulation, which provides up to 30% more storage capacity compared to conventionally insulated freezers.

Easy Operation

The large touchscreen offers intuitive controls with a clear display of all important operating data – for quick checks and convenient monitoring in everyday use.

Rapid Temperature Recovery

The high cooling capacity ensures rapid temperature recovery after the door is opened, thereby ensuring maximum sample protection.

Quiet in Everyday Laboratory Use

Its quiet operation makes it ideal for laboratory settings and noise-sensitive work areas.

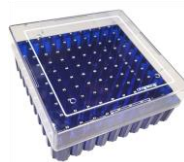
Options



Stackable



Rack Storage Systems



Cryoboxes



Remote Monitoring



Model

ZL-86L108T

Storage

Storage Volume	108 L
Storage Capacity for Standard Racks	6
Storage Capacity for Standard 2-Inch Boxes	90
Storage Capacity for Standard 2-ml Vials	9'000
Temperature Range	-40 °C bis -86 °C
Temperature Uniformity	+/- 2 °C
Temperature Stability	+/- 4 °C
Number of Compartments and Interior Doors	2
Shelf Load Capacity	49 kg

Technical Specifications

Cooling System	Auto Cascade
Refrigerant	Mix (eco)
Cooling time to -80 °C	3 h
Temperature recovery after door opening	18 min.
Power supply	230 V / 4,9 A / 50 Hz
Energy consumption	4,6 kWh/Tag
Noise level	45 dB
Display	25 cm Touchscreen
Alarm output, data export	Remote alarm contacts, USB
Interior Material	Galvanized sheet steel
Feed-throughs for external probes	1
Interior Dimensions mm (W x D x H)	440 x 435 x 590
External Dimensions mm (W x D x H)	955 x 675 x 815
Certification	CE