

memmert



Freezer

**ULT Freezer – Maximum protection
for samples that matter.**

Secure ultra-low temperature storage
with high thermal stability, integrated
safety mechanisms and energy-
optimised cooling technology.

RELIABLE LONG-TERM ULTRA-LOW TEMPERATURE STORAGE

When it comes to ultra-low temperature storage, one factor is paramount: the reliable protection of your samples over extended periods of time. The Memmert ULT freezer has been developed specifically for this purpose. It combines consistent, precise temperature control with integrated safety features and energy-optimised design for continuous operation.

In many life science and clinical applications, the storage of biological materials constitutes the longest stage of the operational process. Samples must be kept stable and protected for days, weeks, or even years. Reliably maintaining defined and uniform conditions is therefore not just a technical detail – it is a critical factor for success.

KEY PERFORMANCE FEATURES

Even minimal temperature deviations can compromise sensitive samples. The Memmert ULT freezer therefore ensures consistently stable and homogeneous conditions throughout the interior – regardless of the position of the sample.

- 01** Temperature range: -50 to -86 °C
- 02** Cooling technology: Dual cascade system, optionally with inverter-controlled compressors (Eco Line) for high precision, energy efficiency and long service life
- 03** Rapid cool-down: High-power compressors and modern control technology ensure an optimal balance of performance and energy consumption
- 04** Sustainability: Natural refrigerants, recyclable materials and energy-optimised components
- 05** Operation: 7" touchscreen with intuitive interface and real-time display of temperature and process status

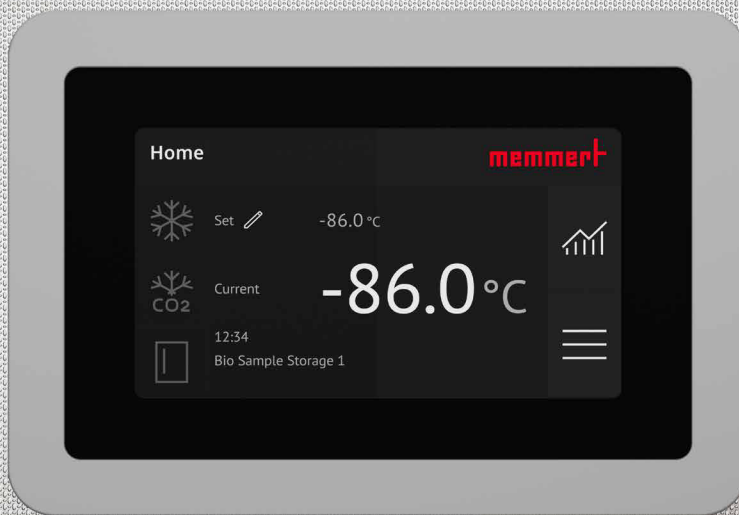


ALWAYS IN CONTROL

Long-term storage also demands full transparency. To support connected workflows and seamless documentation, the ULT freezer can be fully integrated into the digital myChamber ecosystem:

myChamber App: Remote monitoring and live alerts for critical situations

myChamber Control: Device management, process monitoring and documentation (FDA)



APPLICATIONS

- 01** Long-term storage of biological materials (e.g., DNA, RNA, proteins, enzymes, blood, serum, vaccines, tissue samples, reference standards)
- 02** Life science and pharma: biobanking, cell line preservation, vaccine storage (e.g., mRNA), stability testing, sample preservation, forensics
- 03** Clinical and research labs: samples for clinical trials and microbiology
- 04** Industrial environments: storage of reference materials and reagents under extreme temperature conditions

SAFETY FIRST

The protection of sensitive samples requires more than precise temperature control. It demands a multi-layered safety concept designed to function reliably — even in unexpected situations.

In the event of irregularities, visual and audible alarms are triggered immediately. A battery-backed system keeps these alerts active even during power interruptions.

Should the system or mains fail, an optional CO₂ or LN₂ emergency system takes over, ensuring additional hours of continued cooling — giving you valuable time to respond and secure your samples.

Additionally, the device can be connected to the myChamber ecosystem, allowing critical situations to be reported instantly via push notifications to smartphones or by email.

Constructed from high-quality 1.5 mm stainless steel, the housing offers outstanding operational reliability and long-lasting protection against corrosion. Its advanced insulation system delivers exceptional temperature stability and low energy consumption.

INTERIOR AND INTELLIGENT INVENTORY SYSTEM



The flexible interior design concept combined with a versatile range of accessories keeps samples perfectly organised while making the most of the space available.

Each ULT freezer features separately partitioned compartments that are individually accessible. This helps maintain stable temperature conditions — even when doors are opened.

Height-adjustable shelves allow flexible compartment configurations — ideal for a wide variety of sample formats. The optionally available 'Inventory System' provides the ideal interior layout for all common applications, enabling space-optimised storage under optimal conditions.

AVAILABLE MODELS

ULT 240



ULT 360



ULT 500



ULT 750



ULT 1000



Volume

244 Liter

360 Liter

506 Liter

750 Liter

966 Liter

Internal Dimensions (W, H, D)

450 x 1111 x 489 mm

450 x 1276 x 627 mm

600 x 1345 x 627 mm

890 x 1345 x 627 mm

1035 x 1276 x 732 mm

External Dimensions (W, H, D)

700 x 1832 x 738 mm

700 x 1992 x 888 mm

850 x 2000 x 888 mm

1140 x 2000 x 888 mm

1285 x 1992 x 973 mm

Temperature range

-50°C to -86 °C

-50°C to -86 °C

-50°C to -86 °C

-50°C to -86 °C

-50°C to -86 °C

Max. loading of chamber

280 kg

320 kg

360 kg

400 kg

440 kg

MODEL VARIANTS

ECO

Cooling system with two cascade-connected inverter compressors for precise temperature control and high energy efficiency.

STANDARD

Cooling system with two cascade-connected compressors for reliable low-temperature performance.

CONTACT

One process. One partner.
Full control over your cell cultures.

With the new ICO CO₂ incubator and ULT freezer, Memmert delivers a seamless solution across key process steps — from cultivation and incubation through to cryopreservation.

This means fewer interfaces, streamlined workflows and maximum protection for your samples.

For personal consultation, quotations, or technical questions, please contact your local Memmert representative or our international sales team.

Memmert GmbH + Co. KG
P.O. Box 1720 | 91107 Schwabach, Germany
Tel. +49 9122 925-0 | Fax +49 9122 14585
E-Mail: sales@memmert.com
www.memmert.com

Memmert
 [memmert.family](https://www.facebook.com/memmert.family)
 [memmert.family](https://www.instagram.com/memmert.family)

Visit memmert.com/ult

We reserve the right to make technical changes - dimensions are not binding

Order no. E68739 © by Memmert GmbH + Co. KG