



COLD STORAGE / ULTRA-LOW TEMPERATURE

# ULTRA-LOW TEMPERATURE FREEZER

Long-term storage for temperature-sensitive research materials.

A proposed upright ultra-low-temperature freezer for long-term storage of biological specimens, cell lines, enzymes, reagents and other laboratory materials down to approximately -86 C.



**CAPACITY** Approx. 340 L

**TEMPERATURE** -40 C to -86 C

**CABINET** Upright

**PROPOSED MODEL**

ALC-ULT340

**CATALOGUE NUMBER**

ALC-CS-ULT-340

**PROPOSED SPECIFICATION SET**

Final values, accessories, warranty and compliance require approval against the selected OEM datasheet.



## PRODUCT OVERVIEW

## Long-term storage for temperature-sensitive research materials.

The ALC-ULT340 is proposed for secure long-term storage at ultra-low temperatures. A microprocessor controller, insulated cabinet, inner doors and alarm functions help maintain controlled storage conditions. The website image is representative of the ALC freezer family; final -86 C construction and performance require approval against the selected OEM model.



## CAPACITY

Approx. 340 L

## TEMPERATURE

-40 C to -86 C

## CABINET

Upright

### Key Features

- Upright ultra-low-temperature storage
- Microprocessor temperature controller
- Digital temperature display
- High/low temperature and door-open alarms
- Power-failure and sensor-failure alarms
- Multiple insulated inner doors
- Lockable outer door and heavy-duty castors
- Optional data logging, remote alarm and backup system

### Working Principle

A low-temperature refrigeration system removes heat from the insulated storage chamber. The controller uses temperature-sensor feedback to regulate the refrigeration cycle and activate alarms when monitored conditions move outside defined limits.

#### TYPICAL APPLICATIONS

Biobanking / Cell-line storage / DNA and RNA storage / Enzyme and reagent storage / Vaccine and specimen storage / Pharmaceutical research



## PROPOSED TECHNICAL DATA

## Model-specific values require OEM confirmation.

PARAMETER	PROPOSED SPECIFICATION
Storage capacity	Approximately 340 litres
Operating range	Approximately -40 C to -86 C
Set temperature	-80 C or -86 C
Controller	Microprocessor-based
Display	Digital LED/LCD or touchscreen
Cooling system	OEM-confirmed ultra-low refrigeration system
Refrigerant	CFC-free refrigerant
Internal compartments	Shelves and insulated inner doors
Cabinet type	Upright
Exterior	Powder-coated steel
Interior	Stainless or corrosion-resistant coated steel
Insulation	High-density polyurethane/vacuum-insulated panels
Alarm functions	Temperature, door, power and sensor fault
Data logging	USB or optional recorder
Backup system	Optional CO <sub>2</sub> or LN <sub>2</sub>
Power supply	220-240 V AC, 50 Hz

### STANDARD SUPPLY

- Ultra-low-temperature freezer
- Adjustable shelves
- Insulated inner doors
- Door key and access port
- Lockable castors
- Operation manual

### OPTIONAL / MODEL-DEPENDENT

- Storage racks and cryoboxes
- Temperature recorder
- Remote or GSM alarm
- CO<sub>2</sub> or LN<sub>2</sub> backup
- Voltage stabilizer
- Online UPS

### TO BE CONFIRMED

- Exact usable capacity and chamber layout
- Cooling system and refrigerant
- Pull-down/recovery and power consumption
- Warranty, dimensions and compliance documents



## LABORATORY APPLICATIONS

# A practical platform for professional laboratory workflows.

## Applications

- Biobanking
- Cell-line storage
- DNA and RNA storage
- Enzyme and reagent storage
- Vaccine and specimen storage
- Pharmaceutical research

## Product Advantages

- Ultra-low long-term storage range
- Multiple alarm and security functions
- Organised compartment access
- Monitoring and backup options
- OEM storage configuration support

## INDUSTRIES SERVED

Biobanks / Biotechnology laboratories / Pharmaceutical research / Clinical and academic laboratories

## SCAN RELATED FREEZER PAGE



## Request a model-specific quotation.

Share your application, required capacity or range, quantity, installation city and documentation needs. Final performance values and accessories are issued with the approved datasheet and quotation.

## ALC-SCIENTIFIC LABORATORY SYSTEMS

OEM / PRIVATE LABEL AVAILABLE

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Product images are for reference and may vary by configuration. Specifications, dimensions, accessories and designs are subject to change. Final specifications are those in the approved technical datasheet and commercial quotation. Standard warranty: To be confirmed according to the selected product and approved commercial quotation.