iGENE LABSERVE ®
Innovative · Interactive · Intuitive

iULT-Pro Series Ultra-Low Temperature Freezer (-80 °C)

Precision · Stability · Safety

- Dual guard sample protection
- Uniform temperature distribution
- Multiple alarm system
- Microprocessor control

ULTRA LOW TEMPERATURE FREEZER

Genomics | Vaccines | Research | Diagnostics

Engineered for Sample Integrity at –80°C

Robust construction
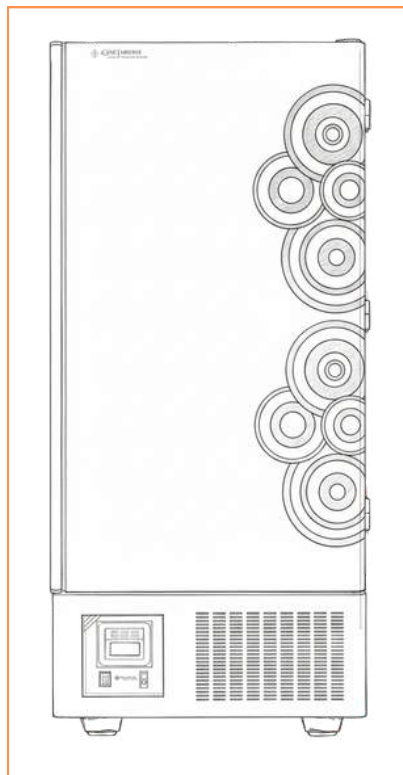
Corrosion resistant
MS Powder coated exterior

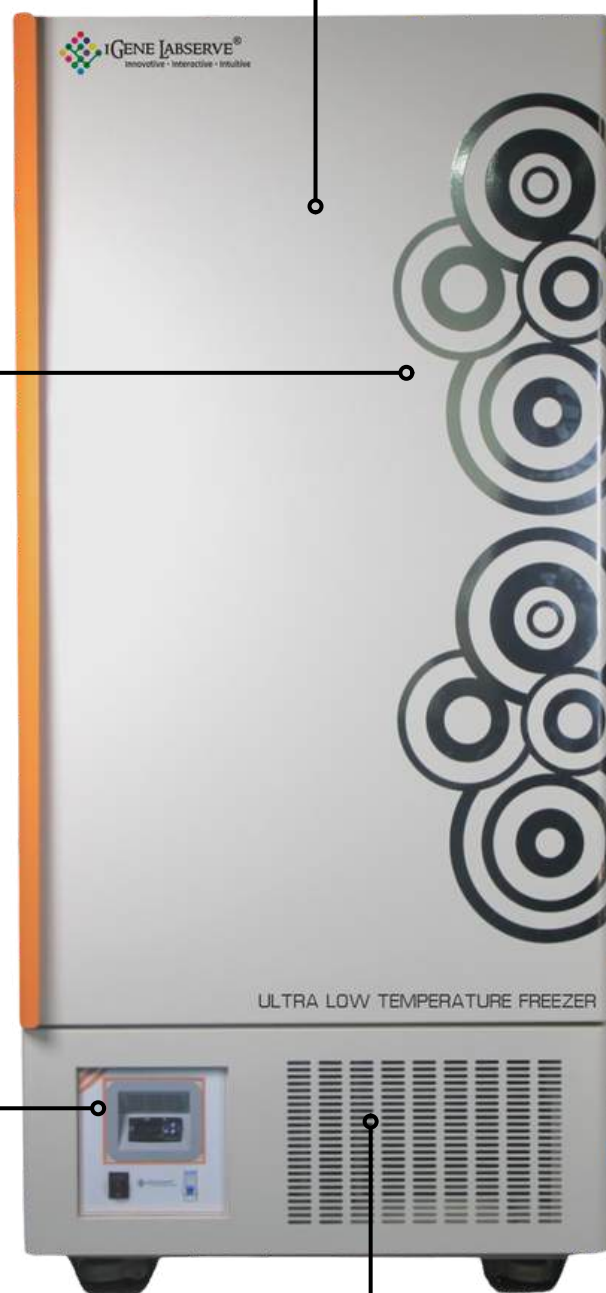Stable temperature uniformity

Advanced safety & alarm architecture

Energy-optimized performance

Designed for long-term sample security

ULTRA LOW TEMPERATURE FREEZER

Microprocessor controlled with an
LED/VFD/ Touch display

Refrigeration System
Equipped with a high-efficiency German
SECOP compressor, EBM cooling fan, and
DANFOSS dry filter and condensing system.

Dual guard protection
In case one compressor encounters an issue,
the second compressor automatically
maintains the temperature at –50 °C.

Why Choose iULT-Pro Series

Multi-layer thermal insulation (150 mm)

Humanized Design

Adjustable shelves and document box for convenient storage

Ergonomically designed handles

Stainless steel inner door

High efficiency refrigeration technology

Optional Features

- Built-in backup battery supporting display and power alarms for up to 8 hours without AC power.
- USB data recorder, UPS light, and SMS remote alarm module.
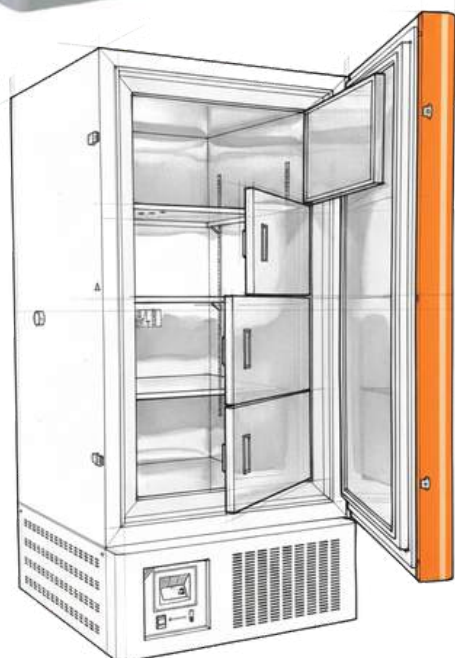
Low noise

Reduced heat emission

Available standard sizes

210L, 508L and 700L
All types of customizations available

| 210L | 508L | 700L |

Controller and Monitoring Systems

2200 Series

Easy to read alerts

- Err = Memory Error
- A1H = High Temperature Alarm 1
- A1L = Low Temperature Alarm 1
- A2H = High Temperature Alarm 2
- A2L = Low Temperature Alarm 2
- ALE = External Alarm
- ooo = Open Probe Error
- --- = Short-Circuit Probe Error

Easy to navigate control

Increases the value of the selected setting

Decreases the value of the selected setting

Set the required temperature

2200+ Series

Safety & Alarm systems

- High / low temperature alarm
- Audible + visual alerts

- **VFD Read out:** For bright characters and wide viewing angle

- Simultaneous display of SV and PV value

Up button

Set the required parameters

Down button

Shift button

Set value

Present value

2400 Series

Safety & Alarm systems

- High / low temperature alarm
- Power failure alarm
- Sensor error alarm
- Audible + visual alerts
- Restart delay protection after power failure

Menu

Graphical data

Temperature control
–40°C to –80°C precision control

Alarm indicator

Lock screen option

Play/pause button

Total run time

Parameter	Specification
Controller	Microprocessor LED/VFD/Touch display
Temperature Range	−40°C to −80°C
Cooling Type	Direct Cooling
Refrigerant	Mixed, CFC free
Insulation Thickness	150 mm
Power Supply	220V / 50Hz
Power Consumption	9.8 kWh / 24h
Noise Level	Low-noise operation
Climate Class	N
Alarm Type	Audio / Visual

Model	Description	Unit
IG-210ULF	The 210 L ultra-low temperature freezer (–80 °C) is supplied with three stainless steel shelves, power cord, cryo gloves, ice scraper, 5 kVA voltage stabilizer, and a user manual as standard accessories.	1
IG-508ULF	The 508 L ultra-low temperature freezer (–80 °C) is supplied with three stainless steel shelves, power cord, cryo gloves, ice scraper, 5 kVA voltage stabilizer, and a user manual as standard accessories.	1
IG-700ULF	The 700 L ultra-low temperature freezer (–80 °C) is supplied with three stainless steel shelves, power cord, cryo gloves, ice scraper, 5 kVA voltage stabilizer, and a user manual as standard accessories.	1

Optional Accessories (Order Separately)

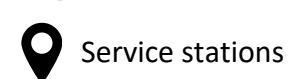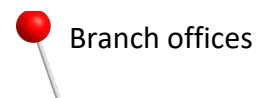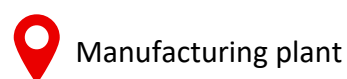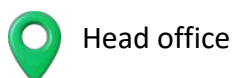| Accessory	Order Code
Backup Battery (8 hrs alarm support)	IG-ULF-BAT
USB Data Logger	IG-ULF-USB
Chart Recorder	IG-ULF-REC
SMS / Remote Alarm Module	IG-ULF-SMS
Additional Shelf	IG-ULF-SHELF
Temperature Validation Sensor	IG-ULF-VALID
IQ/OQ Documentation	IG-ULF-IQOQ
Racks for 12 boxes	IG-ULF-RACK

Racks

Chart Recorder

USB Data Logger

SMS / Remote Alarm Module

IGENE LABSERVE®
Innovative · Interactive · Intuitive

Head office

Branch offices

Manufacturing plant

Service stations

10000+ Installations globally

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Toll Free No.: 1800572 0603

Website: https://www.igenels.com

Email: info@igenels.com