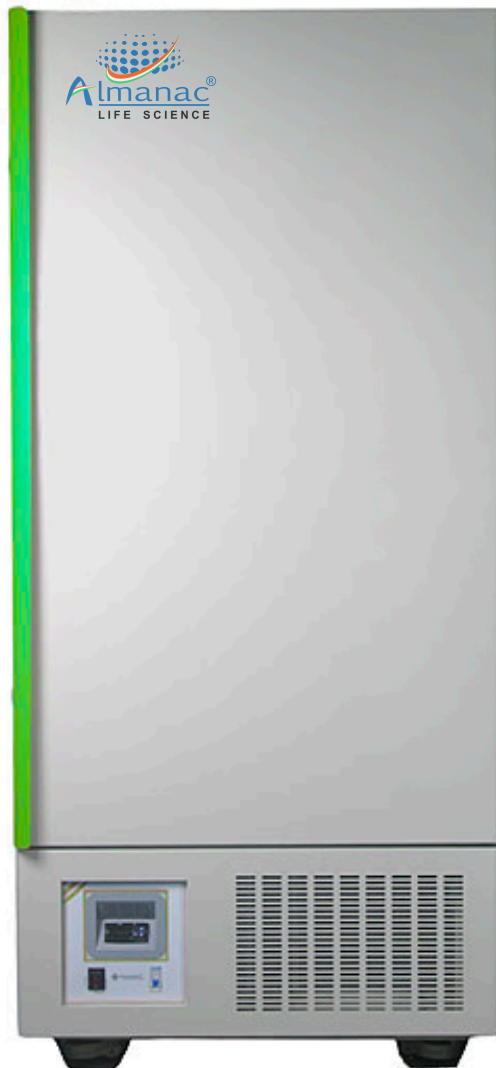


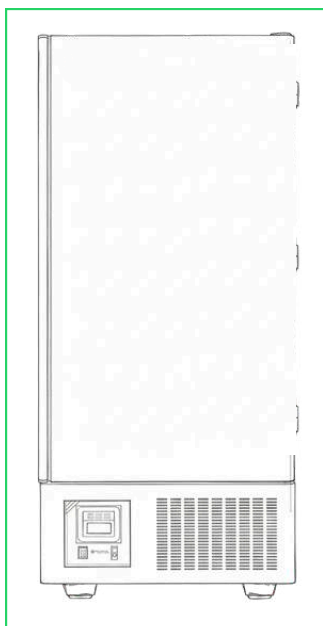
DEEP FREEZER (-80°C)

ALS-INS062



ENGINEERED FOR SAMPLE INTEGRITY AT -80°C

Robust construction



Corrosion resistant MS
Powder coated exterior



Stable temperature uniformity



Advanced safety & alarm architecture



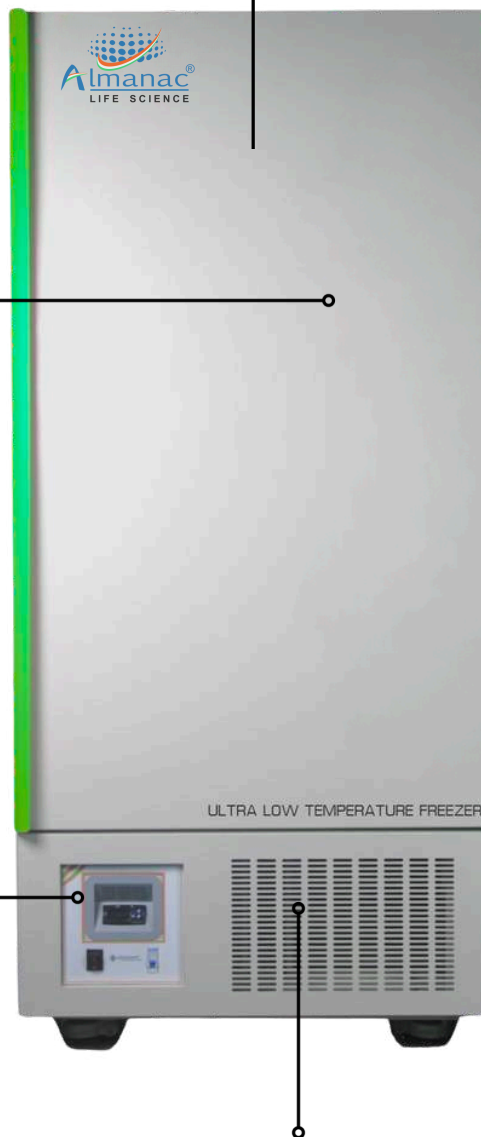
Energy-optimized performance



Designed for long-term sample security



Microprocessor controlled with
an LED/VFD/ Touch display



Refrigeration System

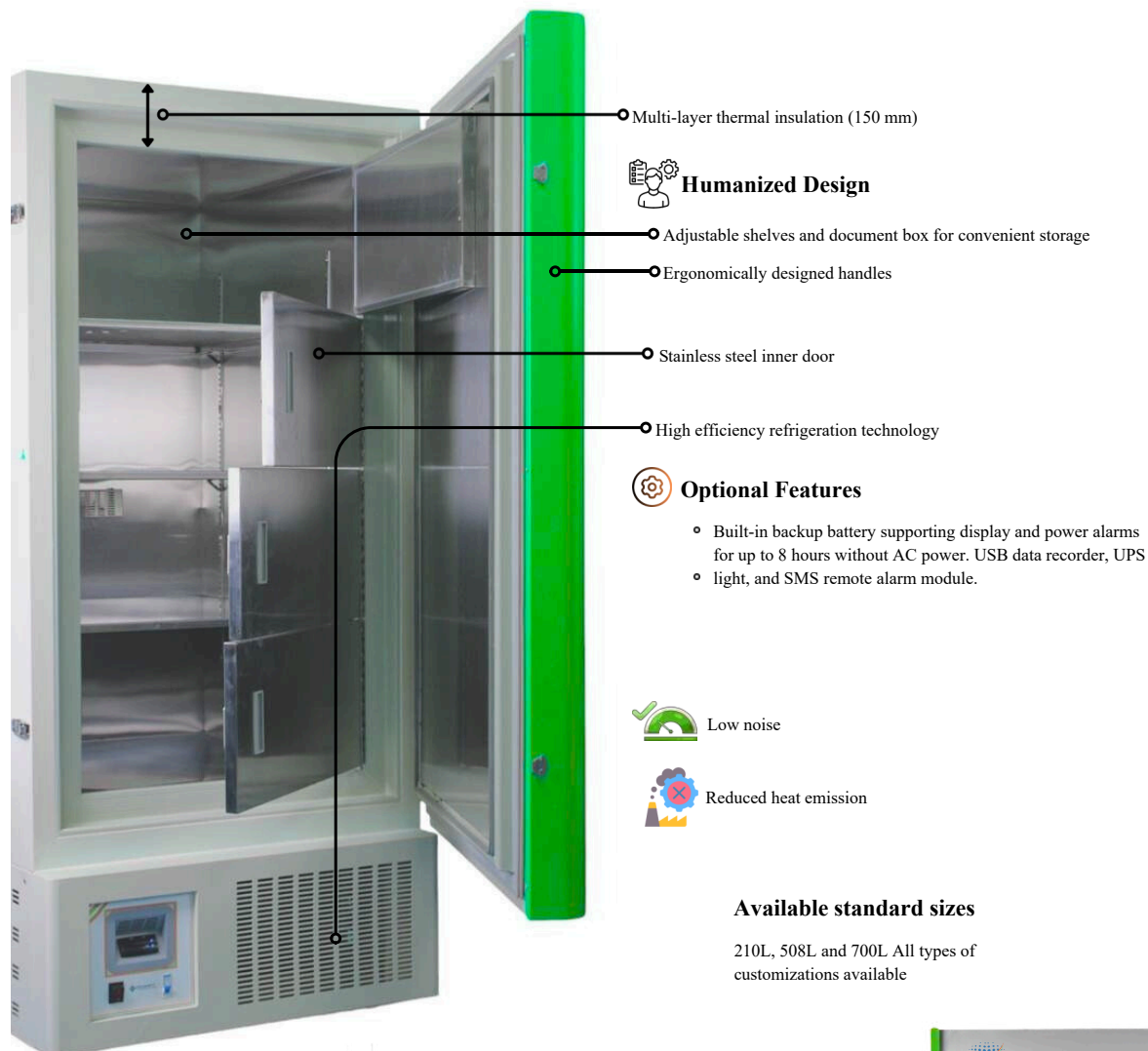
Equipped with a high-efficiency German SECOP compressor, EBM cooling fan, and DANFOSS dry filter and condensing system.



Dual guard protection

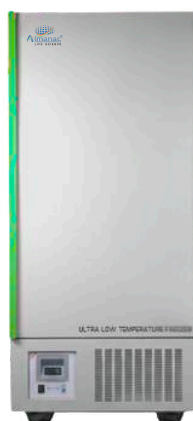
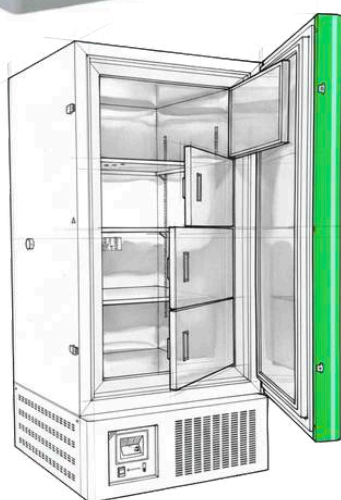
In case one compressor encounters an issue, the second compressor automatically maintains the temperature at -50°C .

WHY CHOOSE ALS-PRO SERIES

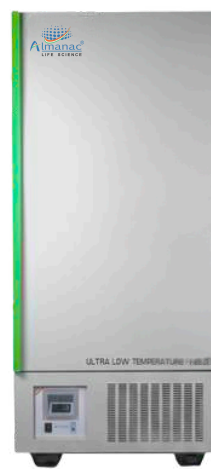


Available standard sizes

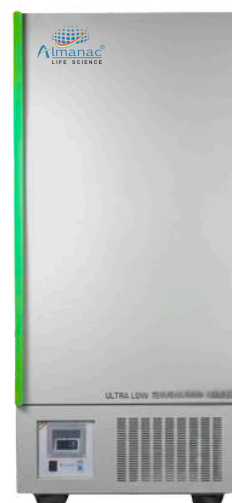
210L, 508L and 700L All types of customizations available



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+



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

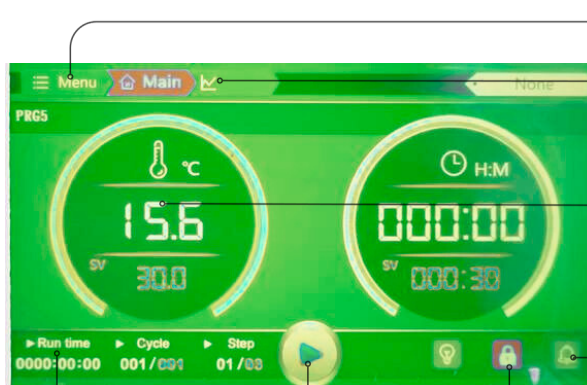
Present value

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

TECHNICAL SPECIFICATION

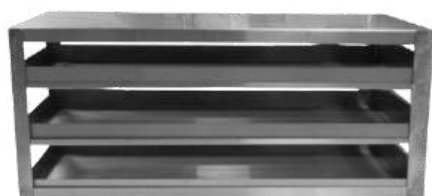
PARAMETER	Specification
Controller	Microprocessor LED/VFD/Touch display
Temperature Range	-40°C to -80°C
Cooling Type	Direct Cooling
Refrigerant	Mixed, CFC free
Insulation Thickness	150 mm
Power Supply	220V / 50Hz
Power Consumption	9.8 kWh / 24h
Noise Level	Low-noise operation
Climate Class	N
Alarm Type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

ORDERING INFORMATION

Model	Description	Unit
ALS-210ULT	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
ALS-508ULT	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
ALS-700ULT	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

TECHNICAL SPECIFICATION

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



Racks



Chart Recorder



USB Data Logger



SMS / Remote Alarm Module