

# Cellax™

## 2 to 8°C Laboratory & Biomedical Refrigerator AI0037



*Developed to Meet Your Everyday Laboratory  
Demands for Storing Your Precious Samples*



## Why Choose Our Refrigerators?

- **Precision Temperature Control:** Ensure the viability of sensitive materials with our state-of-the-art cooling technology.
- **Energy Efficiency:** Our models are designed for sustainability, reducing operational costs without sacrificing performance.
- **Compliance & Safety:** Meet and exceed regulatory standards with built-in alarms, locks, and temperature monitoring.

*Elevate your storage standards with our Laboratory and Biomedical Refrigerators, where accuracy intersects with effectiveness.*

*Setting a new standard for excellence.*

## Choosing the Right Model!

- **Capacity & Space:** Whether you need compact storage or extensive capacity, we have the right fit. Consider both your volume of materials and available space when choosing
- **Budget & Efficiency:** Our range offers options for every budget, without compromising on efficiency and reliability.
- **Organization & Access:** From adjustable shelving to intuitive controls, find the features that meet your storage and access needs.

## Applications:



Pharmaceuticals



Blood & Plasma Storage



Biological Samples



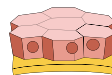
Enzyme & Reagent Storage



Cell Culture



DNA & RNA Storage



Tissue Storage



Laboratory Reagents



# Cellax™ General Purpose Laboratory & Biomedical Refrigerator (AI0037)

## Presenting the Revolutionary Solution from CellBio: The Cellax™ Laboratory Refrigerator

*The newest product from CellBio, the Cellax laboratory Refrigerator, will completely transform your experience in the lab. It is made to be a true companion while conducting scientific research.*

**Carefully constructed for Short- to Medium-Term Storage:** The Cellax™ has been built to meet the complex needs of industrial, clinical, and research laboratories.

**Multipurpose Application:** Suitable for a wide variety of materials, such as proteins, reagents, medium, and non-critical/semi-critical samples frequently used in scientific settings.

**Beyond Storage:** The Cellax™ is more than just a refrigerator; it is an integral component of laboratory workflows, guaranteeing ideal conditions for materials and improving productivity and dependability.

*Experience the heights of technological advancement in laboratory refrigeration with CellBio's Cellax,™ where performance and accuracy collide. Gain more research skills with each degree.*



Super Quiet



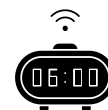
1 Year Warranty



Saves Energy



Uses Eco-Friendly Refrigerants



Alarm Indication if door  
is open for too long



## Reliability, Safety, and Excellence you can count on: (AI0037)

### Safety:

- ✓ Temperature Alarms (High/Low)
- ✓ Locking Mechanism
- ✓ Door Ajar Alert
- ✓ Remote Alarm Connectivity
- ✓ Rodent-Resistant Cord

### Reliability:

- ✓ **Refrigerator Set Point:** +4°C
- ✓ **Quiet Operation:** < 55 dbA
- ✓ **Digital Controller:** Equipped with an alarm log
- ✓ **Automatic Defrost:** Ensures efficient operation
- ✓ **Pressure Equilization Port:** Facilitates optimal performance
- ✓ **Low Heat Output:** Engineered for minimal heat emission.



### Excellence:

- ✓ 12-Month Warranty
- ✓ CE Mark
- ✓ LED Interior Lighting
- ✓ Eco-Friendly Hydrogen Refrigerants (SNAP Compliant)
- ✓ White Painted Interior, Precoated Steel Exterior

### Type of Door:

- ✓ Single Glass Door



## Know Our Upgraded Model with Extra Features (AI0037):

Specification	Detail	
Model Type	Single Glass Door	Single Solid Door
Construction	Standard Model / GMP Model	
Exterior Material	Mild steel with powder coating (Standard) / Stainless steel 304 (GMP)	
Interior Material	Stainless steel 304	
Insulation	80mm Thick CFC free PUF Insulation	
Door	Key lockable outer door, Inner glass viewing door	Key lockable outer door
Trays	Stainless steel 304 Rack & Trays	
Observation Window	300 x 300 mm	
Lighting	Interior illumination with Fluorescent light	
Refrigeration System	Hermetically Sealed CFC Free Emerson Compressor with R 134a/R404 refrigerant	
Control System	PID Temperature controller with 4" Touch Screen display	
Temperature Sensor	PT 100 Sensor	
Auto Start	System restarts automatically with default set parameter after power failure	
HMI/Display	4 "Touch Screen Display	
Validation Port	40 mm validation Port	
Power Supply	230V AC single phase 50Hz	
Additional Features	MCB, Heavy duty latch with lock & key, PU Wheels for easy movement	
Temperature Range	2°C to 8°C	
Temperature Accuracy	± 0.5° C	
Temperature Uniformity	± 1° C	
Supply	230V / 25A / 50 Hz	
<b>Capacity</b>	<b>200,400, 600, 800, 1000</b>	
Certificate	ISO, CE	





## Experience Precision Cold Storage with Cellax™

The Cellax™ laboratory Refrigerator are engineered for the rigorous needs of research, clinical, and industrial labs, ideal for storing reagents, media, proteins, and samples.

- Ultra-quiet operation
- Energy efficiency
- Alerts for temperature, power loss, and open doors
- Eco-friendly refrigerants
- 12-month parts and labor warranty

### Safety:

- ✓ High/Low Temp Alarms
- ✓ Door Ajar Alarm
- ✓ Power Loss Alert
- ✓ Condenser Blockage Warning
- ✓ Keyed Access
- ✓ Remote Alarm Links

### Excellence:

- ✓ 12-Month Parts and Labor Warranty
- ✓ CE Certification
- ✓ White Interior Paint and Precoated Steel Exterior

### Reliability:

- ✓ **Refrigerator Temperature:** Set point at +5°C with an adjustable range of +2°C to +15°C.
- ✓ **Quiet Operation:** Less than 60 dBA for minimal noise disruption.
- ✓ **Digital Control:** Includes an alarm log for monitoring.
- ✓ **Smart Defrost:** Features an adaptive defrost system.



## Know Our Upgraded Model with Extra Features (AI0037):

Specification	Detail	
Model Type	Double Glass Door	Double Solid Door
Construction	Standard Model / GMP Model	
Exterior Material	Mild steel with powder coating (Standard) / Stainless steel 304 (GMP)	
Interior Material	Stainless steel 304	
Insulation	80mm Thick CFC free PUF Insulation	
Door	Key lockable outer door, Inner glass viewing door	
Trays	Stainless steel 304 Rack & Trays	
Observation Window	300 x 300 mm	
Lighting	Interior illumination with Fluorescent light	
Refrigeration System	Hermetically Sealed CFC Free Emerson Compressor with R 134a/R404 refrigerant	
Control System	PID Temperature controller with 4" Touch Screen display	
Temperature Sensor	PT 100 Sensor	
Auto Start	System restarts automatically with default set parameter after power failure	
HMI/Display	4 "Touch Screen Display	
Validation Port	40 mm validation Port	
Power Supply	230V AC single phase 50Hz	
Additional Features	MCB, Heavy duty latch with lock & key, PU Wheels for easy movement	
Temperature Range	2°C to 8°C	
Temperature Accuracy	± 0.5° C	
Temperature Uniformity	± 1° C	
Supply	230V / 25A / 50 Hz	
<b>Capacity</b>	<b>200,400, 600, 800, 1000</b>	
Certificate	ISO, CE	



# Cellax™ Vaccine/pharmacy Storage Laboratory & Biomedical Refrigerator (AI0037V)

## Secure Your Sensitive Materials with Precision and Reliability

In the demanding environments of laboratories and clinical settings, the stability and integrity of vaccines, medications, and other temperature-sensitive materials are paramount. The Cellax™ Laboratory & Biomedical Refrigerator is expertly designed to meet these needs, ensuring the effectiveness and longevity of your critical storage.

## Engineered for Excellence:

- **Precise Temperature Control:** Operates within the essential 2 to 8°C range, safeguarding the viability of your materials.
- **NSF/ANSI 456 Certified:** Meets stringent Vaccine Storage standards for unmatched performance, quality, and compliance.
- **Designed for Critical Storage:** Ideal for the specialized demands of pharmaceuticals, chemotherapeutics, and vaccines, providing peace of mind for laboratory and clinical professionals.

## Key Features:

- **Optimal Performance:** Maintains temperature uniformity, essential for enzyme integrity and vaccine efficacy.
- **Visibility & Accessibility:** Features such as adjustable, fully extendable drawers and bright LED lighting enhance the user experience, making inventory management seamless.
- **Mobility & Security:** Equipped with lockable casters for easy positioning and stability in any setting.
- **Clean Room Compatibility:** Ready for integration into GMP Clean Room Class A / ISO 6 environments, with appropriate preparation.





## Cellax™ Vaccine/pharmacy Storage Laboratory & Biomedical Refrigerator (AI0037V)



Ensures consistent temperatures with a heat-free defrost system.



Features accessible, adjustable basket drawers for convenience.



Includes 2" casters for mobility, with lockable front ones for stability.



Equipped with bright LED lighting for clear visibility.



Comes with a self-closing door that stops at 90° for easy loading.



## Know Our Upgraded Model with Extra Features (AI0037V):

Specification	Detail	
Model Type	Vertical, Upright, Pharmaceutical Refrigerator Single Glass Door	Vertical, Upright, Pharmaceutical Refrigerator Two Glass Door
Construction	Standard Model / GMP Model	
Exterior Material	Mild steel with powder coating (Standard) / Stainless steel 304 (GMP)	
Interior Material	Stainless steel 304	
Defrost	Auto	
Insulation	80mm Thick CFC free PUF Insulation	
Door	Key lockable outer door, Inner glass viewing door	Key lockable outer door
Trays	Stainless steel 304 Rack & Trays	
Observation Window	300 x 300 mm	
Lighting	Interior illumination with Fluorescent light	
Refrigeration System	Hermetically Sealed CFC Free Emerson Compressor with R 134a/R404 refrigerant having state of art by pass system for continues run of compressor	
Control System	Microprocessor control PID Temperature controller with 4" Touch Screen display	
Temperature Sensor	PT 100 Sensor	
Auto Start	System restarts automatically with default set parameter after power failure	
HMI/Display	4 "Touch Screen Display	
Validation Port	40 mm validation Port	
Power Supply	230V AC single phase 50Hz	
Additional Features	MCB, Heavy duty latch with lock & key, PU Wheels for easy movement	
Temperature Range	2-8°C (5°C Set point )	
Temperature Accuracy	± 0.5° C	
Temperature Uniformity	± 1° C	
Supply	230V / 25A / 50 Hz	208-230V, 60Hz
<b>Capacity</b>	<b>200,400, 600, 800, 1000</b>	
Certificate	ISO, CE	



## Progressive Solutions: Safeguarding Blood and Its Components with Cellax™ Refrigerator:

**Cellax™ refrigerators meet the exacting requirements for the storage of blood and blood-related products, ensuring full compliance with 93/42/CE—class IIa regulation**

- Precise microprocessor control maintains a steady cabinet temperature of  $4\pm1^{\circ}\text{C}$ .
- A carefully engineered forced-air cooling system prevents frost and ensures even temperature distribution.
- Equipped with a triple-layered toughened glass door featuring a heating element to prevent condensation.
- The inner chamber is made of 304 stainless steel for durability and ease of cleaning.
- Operates effectively within a broad voltage range of 187V-242V



### SAFETY

- Touch screen control
- Temperature & alarm tracking
- Electronic lock with password
- Power failure alarm, battery backup
- Ballasted probe for simulating temperature



### EXCELLENCE

- Meets 93/42/CE - Class IIa standards
- Robust 75mm insulation
- White painted interior, pre-coated steel exterior
- 12 month guarantee



### SUSTAINABILITY

- Hydrocarbon based refrigerants compliant with F-gas regulations
- Real-time energy monitoring for low energy consumption
- Minimal heat emission



## Cellax™ Blood Bank Double Door Refrigerators (AI0037B)

- Various sizes: 140 L to 1,500 L (double door)
- Touch screen controller with datalogging
- Single & Double-pane glass doors
- Inner doors and smart cooling fan prevent cold air leakage when opened



- Alarms for temperature, door, and power failure
- Energy-efficient with real-time monitoring
- Low heat output
- Rear access port
- Electronic lock, password protected
- Whisper-quiet (<50 dBA)



## Specifications (AI0037B):

Features	Specification	
Model Type	Double Glass Door	Double Solid Door
Temperature Range	4°C ± 1°C	
Ambient Temperature	10~32°C	
Controller	Microprocessor	
Display	Digital Display	
Compressor	1	
Refrigerant	R134a	
Cooling Type	Forced air cooling	
Power Supply (V/Hz)	220/50~60; 115/60	220/5060; 115/60
Rated Power (W)	513	200
Electrical Current (A)	2.37	0.8
Power Consumption	8.53 kwh/24h	2.22 kwh/24h
Capacity	200,400, 600, 800, 1000	
HMI/Display	4 "Touch Screen Display	
Interior Size (W*D*H)	1100*684*1325 mm	432*462*978mm
Exterior Size (W*D*H)	1220*878*1885 mm	522*600*1550mm
Package Size (W*D*H)	1300*960*2130 mm	580*680*1700 mm
N.t./G.t.(approx)	264.5/334.5 kg	96/120 kg
Frost control	Auto Defrost	
Caster	4	
Lamp	LED	
Shelf	12	3
High/low temperature, Power failure, Sensor error, Door ajar Alarm	Yes	
Certificates	ISO, CE	





## Cellax™ High-Performance Chromatography Refrigerator (AI0037C)

The Cellax™ high-performance chromatography refrigerators are engineered for applications demanding precise temperature control, with features tailored for chromatography setups. Designed to store chromatography supplies, reagents, samples, and other materials used in chromatography applications.

Offer precise temperature control, typically within the range of 2°C to 8°C, to protect sensitive materials from temperature variations.

Feature access ports for the passage of cables and tubing, facilitating the connection of equipment inside the refrigerator to external chromatography instruments.



**Heat-free defrost for even temperature.**



**Forced air for uniform temperatures.**



**GMP Clean Room Class A / ISO 6 compatible.**



**Two 2" insulated access ports.**



**Four casters, front two lockable.**



**Bright LED lighting.**



**Adjustable epoxy-coated shelves; optional drawers.**



**Keyed on/off switch with security.**



**Self-closing doors with a 90° hold-open feature (except REC4504).**



**Built-in remote alarm contacts.**



**Optional 4-20 mA output for data logging.**





## Know Our Upgraded Model with Extra Features (AI0037C):

Specification	Detail	
Model Type	Vertical, Upright, Pharmaceutical Refrigerator Single Glass Door	Vertical, Upright, Pharmaceutical Refrigerator Two Glass Door
Construction	Standard Model / GMP Model	
Exterior Material	Mild steel with powder coating (Standard) / Stainless steel 304 (GMP)	
Interior Material	Stainless steel 304	
Defrost	Auto	
Insulation	80mm Thick CFC free PUF Insulation	
Door	Key lockable outer door, Inner glass viewing door	Key lockable outer door
Trays	Stainless steel 304 Rack & Trays	
Observation Window	300 x 300 mm	
Lighting	Interior illumination with Fluorescent light	
Refrigeration System	Hermetically Sealed CFC Free Emerson Compressor with R 134a/R404 refrigerant having state of art by pass system for continues run of compressor	
Control System	Microprocessor control PID Temperature controller with 4" Touch Screen display	
Temperature Sensor	PT 100 Sensor	
Auto Start	System restarts automatically with default set parameter after power failure	
HMI/Display	4 "Touch Screen Display	
Validation Port	40 mm validation Port	
Power Supply	230V AC single phase 50Hz	
Additional Features	MCB, Heavy duty latch with lock & key, PU Wheels for easy movement	
Temperature Range	2-8°C (5°C Set point )	
Temperature Accuracy	± 0.5° C	
Temperature Uniformity	± 1° C	
Supply	230V / 25A / 50 Hz	208-230V, 60Hz
<b>Capacity</b>	<b>200,400, 600, 800, 1000</b>	
Certificate	ISO, CE	




## Choose a lab refrigerator that is most suited to your lab's needs

		
Features	General Purpose Laboratory & Biomedical Refrigerator (AI0037)	Vaccine/pharmacy Storage Laboratory & Biomedical Refrigerator (AI0037V)
Description	Dependability and versatility for usage in research, clinical, and industrial settings. High performance for general use product storage.	High-performance, safe refrigeration for vaccines, medicines, chemotherapy, and other clinical/medical-grade items.
Applications	Daily cell culture media, staining solutions, reagents, proteins, and membranes.	Vaccines, pharmaceutical compounds
Storage Capacity	1.8 – 72 cu. ft. (155.7 -2038L)	5.5 – 51.1 cu. ft. (326 – 1447L)
Size configurations	Single Glass Door Double Glass Door  Single Solid Door Double Solid Door	Single Glass Door Double Glass Door  Single Solid Door Double Solid Door



## Choose a lab refrigerator that is most suited to your lab's needs

		
Features	Blood Bank Refrigerator (AI0037B)	High-Performance Chromatography Refrigerator (AI0037C)
Description	AABB compatible, featuring enhanced cooling, security, and user features for storing whole blood and blood components.	High-performance cooling systems provide accurate temperature control and support for chromatography instruments and samples in chambers.
Applications	Whole blood, blood components, plasma.	Chromatography materials, samples, instrumentation and supplies
Storage Capacity	4.9 - 51.1 cu. ft. (133-1447L)	23 - 72 cu. ft. (650 -2038L)
Size configurations	Single Glass Door Double Glass Door	Single Glass Door Double Glass Door

