

## Laboratory & Biomedical Freezers & Ice Flakers

### -86°C Temperature Laboratory & Biomedical Freezer Features



- High-precision microcomputer temperature control system for easily and precise temperature setting
- The platinum resistor temperature sensors enable more precise temperature control
- High-definition and easy-handling control panel to set the temperature range from -40°C to -86°C with digital temperature display precision in 1°C
- Lockable door, keyboard lock and password access prevent any unauthorized access and operation
- Upright deep freezer with stainless steel materials and painted steel panel outer materials, and 4 units casters for easy handling
- Adjustable 2-3 stainless steel shelves with inner door and double silicon gasket seal
- Power supply: 220V /50Hz 1 phase, can be changed as 220V 60HZ or 110V 50/60HZ
- Optional: Chart recorder, CO2 back up system, freezer racks/boxes, Remote alarm system
- **Available in Touch screen formats in capacities of 398 L, 528L, 678L, 778L, 1008L**

### Specification

Temperature Range	-40~-86°C
Ambient Temperature	16-32°C
Cooling Performance	-86°C
Climate Class	N
Controller	Microprocessor
Display	Digital display
Compressor	1pc
Cooling Method	Direct Cooling
Defrost Mode	Manual
Refrigerant	HC
Insulation Thickness(mm)	L:90, R:115 / L/R:155,B:170
External Material	Cold rolled steel sheet
Inner Material	Stainless steel
Shelves	1(Stainless steel)
Door Lock with Key	Yes
External Lock	Yes
Access Port	1pc. Ø 25 mm
Casters	4
Data Logging/Interval/Recording Time	USB/Record every 10 minutes / 2 years

Backup Battery	Yes
Temperature	High/Low temperature, High ambient temperature
Electrical	Power failure, Low battery
System	Sensor failure, Communication error, Built-in datalogger USB failure, Condenser overheating alarm, Door ajar
Standard	RS485,Remote alarm contact
Options	CO2 backup system

Product Name	Code	Price
-86°C Ultra Low Temperature Laboratory Freezer, 100Litres, Upright	AI0034-100L-1NO	On request
-86°C Ultra Low Temperature Laboratory Freezer, 218Litres, Upright	AI0034-218L-1NO	On request

### -25°C and -40 °C Laboratory & Biomedical Freezer



### Specification

Air Circulation	Motor and blower arrangement to have uniformity of Temperature under loaded condition.
GMP Model	Double wall, with 80mm Puf insulation, Inner Chamber stainless steel 304 & outer stainless steel 304, outer door key lockable, Inner glass viewing door
Standard Model	Double wall, with 80mm Puf insulation, Inner Chamber stainless steel 304 & outer GI with powder coating. door key lockable, Inner glass viewing door
Trays	Stainless steel 304 Rack & Trays
Insulation	80mm Thick CFC free PUF Insulation
Lighting	Interior illumination for working area. 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	PID Temperature controller with 4" Touch Screen display
Sensor	PT 100 Sensor
Auto start	In case power fail and resume system start automatically with default set parameter
HMI / Display	4 " Touch Screen Display

<b>Validation Port</b>	40 mm validation Port
<b>Power</b>	Works on 230V AC single phase 50Hz
<b>Other</b>	MCB, Heavy duty latch with lock & key.
<b>Wheels</b>	PU Wheels for easy movement
<b>Temperature Range</b>	0°C to -25°C & -20°C to -40°C
<b>Temperature Accuracy</b>	± 3° C
<b>Temperature Uniformity</b>	± 5° C
<b>Supply</b>	230V / 25A / 50 Hz.

*Available in double door format in capacities 1500L, 1800L and 2000L*

Product Name	Code	Price
-40°C Low Temperature Laboratory & Biomedical Freezer, 200Litres, Upright	AI0035-200L-1NO	On request
-40°C Low Temperature Laboratory & Biomedical Freezer, 300Litres, Upright	AI0035-300L-1NO	On request
-40°C Low Temperature Laboratory & Biomedical Freezer, 400Litres, Upright	AI0035-400L-1NO	On request
-40°C Low Temperature Laboratory & Biomedical Freezer, 600Litres, Upright	AI0035-600L-1NO	On request
-40°C Low Temperature Laboratory & Biomedical Freezer, 800Litres, Upright	AI0035-800L-1NO	On request
-40°C Low Temperature Laboratory & Biomedical Freezer, 1000Litres, Upright	AI0035-1000L-1NO	On request
-25°C Low Temperature Laboratory & Biomedical Freezer, 200Litres, Upright	AI0036-200L-1NO	On request
-25°C Low Temperature Laboratory & Biomedical Freezer, 300Litres, Upright	AI0036-300L-1NO	On request
-25°C Low Temperature Laboratory & Biomedical Freezer, 400Litres, Upright	AI0036-400L-1NO	On request
-25°C Low Temperature Laboratory & Biomedical Freezer, 600Litres, Upright	AI0036-600L-1NO	On request
-25°C Low Temperature Laboratory & Biomedical Freezer, 800Litres, Upright	AI0036-800L-1NO	On request
-25°C Low Temperature Laboratory & Biomedical Freezer, 1000Litres, Upright	AI0036-1000L-1NO	On request

**+2 to +8°C, Laboratory & Biomedical refrigerator**



**Specification**

<b>Air Circulation</b>	Motor and blower arrangement to have uniformity of Temperature under loaded condition
<b>GMP Model</b>	Double wall, with 80mm Puf insulation, Inner Chamber stainless steel 304 & outer stainless steel 304, outer door key lockable, Inner glass viewing door
<b>Standard Model</b>	Double wall, with 80mm Puf insulation, Inner Chamber stainless steel 304 & outer Mild steel with powder coating, door key lockable, inner glass viewing door
<b>Trays</b>	Stainless steel 304 Rack & Trays
<b>Observation Window</b>	300 x 300 mm
<b>Lighting</b>	Interior illumination for working area. Fluorescent light
<b>Insulation</b>	80mm Thick CFC free PUF Insulation
<b>Refrigeration System</b>	Hermetically Sealed CFC Free Emerson Compressor with R 134a/R404 refrigerant having state of art by pass system for continues run of compressor
<b>Control System</b>	PID Temperature controller with 4" Touch Screen display
<b>Sensor</b>	PT 100 Sensor
<b>Auto start</b>	In case power fail and resume system start automatically with default set parameter
<b>HMI / Display</b>	4 " Touch Screen Display
<b>Validation Port</b>	40 mm validation Port
<b>Power</b>	Works on 230V AC single phase 50Hz
<b>Other</b>	MCB, Heavy duty latch with lock & key
<b>Wheels</b>	PU Wheels for easy movement
<b>Temperature Range</b>	2°C to 8°C
<b>Temperature Accuracy</b>	± 0.5° C
<b>Temperature Uniformity</b>	± 1° C
<b>Supply</b>	230V / 25A / 50 Hz.

Product Name	Code	Price
+2~+8°C, Laboratory & Biomedical Refrigerator, 200Litres Upright	AI0037-200L-1NO	On request
+2~+8°C, Laboratory & Biomedical Refrigerator, 400Litres Upright	AI0037-400L-1NO	On request
+2~+8°C, Laboratory & Biomedical Refrigerator, 600Litres Upright	AI0037-600L-1NO	On request
+2~+8°C, Laboratory & Biomedical Refrigerator, 800Litres Upright	AI0037-800L-1NO	On request
+2~+8°C, Laboratory & Biomedical Refrigerator, 1000Litres Upright	AI0037-1000L-1NO	On request