

0 Series Refrigerated Box ($4\pm 1^{\circ}\text{C}$)

Product Uses

The $4\pm 1^{\circ}\text{C}$ temperature control box, also known as a blood refrigerator, is a professional refrigeration device for storing blood. It can also be used to store blood products, pharmaceuticals, laboratory reagents, and biological products. It is suitable for blood banks, hospitals, operating rooms, laboratories, research laboratories, and other similar facilities. The $4\pm 1^{\circ}\text{C}$ refrigerator uses a specially designed temperature control system and an optimized air circulation system to maintain a uniform and constant temperature within the box, ensuring safe blood storage. Different blood cells have different characteristics, requiring different storage equipment and resulting in different shelf lives. Currently, whole blood and red blood cells can be stored for 35 days at $4\pm 2^{\circ}\text{C}$; platelets, stored in special bags at $22\pm 2^{\circ}\text{C}$ with continuous agitation, can be stored for 5 days; and fresh frozen plasma can be stored for 1 year below -20°C . Our company produces two series of $4\pm 1^{\circ}\text{C}$ refrigerators: the 0 series and the 8 series.

Features

- * Product Structure: Cabinet, Electrical Control System, Display System, Refrigeration System;
- * Cabinet Outer Shell: Made of cold-rolled steel plate with electrostatic spraying and surface rust removal and phosphating treatment, ensuring excellent coating adhesion;

- * Inner Wall: Made of high-quality 304 stainless steel, rust-proof, corrosion-resistant, safe and reliable;
- * Copper tube finned evaporator for efficient cooling and rapid temperature reduction; forced circulation air-cooling system ensures no frost buildup on the inner wall of the refrigerator;
- * Double-layered vacuum electrically heated tempered coated glass door effectively prevents surface condensation;
- * Each shelf has a transparent acrylic inner door to effectively prevent cold air leakage and rapid temperature rise when storing or retrieving items;
- * Adjustable shelf design with blood bag holder for easy access;
- * Equipped with a safety door lock to prevent unauthorized opening;
- * Built-in LED lighting;
- * Compressor compartment with rodent-proof cover design for good heat dissipation and high safety;
- * Casters for easy movement;
- * Rubber door sealing strip with airbag for excellent sealing;
- * Microcomputer LED digital display controller, real-time temperature display with an accuracy of 0.1°C;
- ※ The control system has a password protection function to prevent unauthorized parameter settings and adjustments;

- ※ Uses a brand-name compressor, ensuring stable and reliable performance and a long service life;
- ※ Power failure protection, compressor delayed start, and smooth operation;
- ※ Uses fluorine-free environmentally friendly refrigerant;
- ※ Features high and low temperature alarms, door opening alarms, sensor fault alarms, power failure alarms, and battery level alarms;
- ※ Audible buzzer alarms and flashing light alarms;
- ※ Remote monitoring and remote SMS alarms can be achieved with an optional monitoring module;
- ※ Optional products include fully foamed doors or foamed viewing windows;

Product Parameters

Model	AST-4L130	AST-4L230	AST-4L300	AST-4L360
Volume (L)	130	230	300	360
Temperature Range (°C)	4±1			
Rated Voltage/Frequency (V/Hz)	220/50			
Rated Power (W)	240	280	300	320
Power Consumption (kWh/24h)	2.8	3.4	3.6	4.8
Electric Shock Protection Type	I			

Climate Type	N			
Net Weight (kg)	62	73	83	105
Noise Level (dBA)	52	52	52	52
Insulation Layer Thickness (mm)	45	40	40	50
Shelf/Board (Layers)	4	5	5	5
Product Dimensions (mm)	522*595*136	595*605*162	595*605*194	680*650*197
Inner Carton Dimensions (mm)	5	0	0	5
Inner Carton Dimensions (mm)	432*500*843	515*510*108	515*510*140	580*550*152
Packaging Material	木托+纸箱			
Packaging Dimensions	622*695*151	695*705*176	695*705*208	780*750*212
	0	5	5	0
Structure	Bottom-mounted unit	Bottom-mounted unit	Bottom-mounted unit	Bottom-mounted unit
Certificate				

Product appearance images



Model	AST-4L400	AST-4L560	AST-4L660	AST-4L760	AST-4L1160	AST-4L1358
Volume (L)	400	560	660	760	1160	1360
Temperature Range (°C)	4±1					
Rated Voltage/Frequency (V/Hz)	220/50					
Rated Power (W)	430	490	550	580	650	850
Power Consumption (kWh/24h)	5.2	5.9	6.5	7.2	7.8	8.6
Electric Shock Protection Type	I					
Climate Type	N					
Net Weight (kg)	115	131	175	158	171	195
Noise Level (dBA)	55	55	55	55	55	55
Insulation Layer Thickness (mm)	60	45	60	60	60	45
Shelf/Board (Layers)	5	5	5	5	5	5
Product Dimensions (mm)	680*745*1870	1200*650*1890	1100*685*2080	1200*745*1870	1800*745*1870	1892*740*2070
Inner Carton Dimensions (mm)	570*610*1380	1112*560*1232	985*565*1595	1080*610*1380	1680*610*1380	1750*590*1490
Packaging Material	木托+纸箱					
Packaging Dimensions	780*845*2015	1300*750*2035	1200*785*2225	1300*845*2015	1900*845*2015	1992*840*2215
Structure	Top-mounted unit	Bottom-mounted unit	Bottom-mounted unit	Top-mounted unit	Top-mounted unit	Bottom-mounted unit
Certificate						



Product Configuration

Style	Vertical	Cabinet interior lighting	LED	Roller type	Self-locking omnidirectional rubber rollers
Color	Off-white with orange-gray pattern	Thermostat	Microcomputer LED digital display temperature controller	Exterior door	Electric heating tempered glass door
Refrigeration Method	Air-cooled	Insulation material	Cyclopentane polyurethane foam insulation layer	Interior door	Acrylic sheet material
Compressor	SECOP	Refrigerant	R134a	Handle	Recessed handles/Aluminum alloy handles
Evaporator	Copper tube finned evaporator	Outer casing material	Cold-rolled steel sheet, electrostatic powder coating	Door seal	Rubber-sealed airbag door seal
Condenser	Copper tube finned condenser	Inner casing material	304 stainless steel	Alarm method	Beeping sound and flashing display alarm
Evaporator Fan	Longfei	Whether it has a lock	Alloy industrial cabinet lock	Alarm function	High and low temperature alarm, sensor fault alarm, door open alarm, power failure alarm
Condenser Fan	EBM	Wire basket	PVC coated wire mesh basket		
Optional Configurations	304 Stainless Steel Inner Liner / Foamed Door / Viewing Window Door / Remote Monitoring / USB Data Interface / Temperature Recorder / Printer				

