



Targeted Refrigeration

The new generation of ultra-low temperature refrigeration system can ensure fast refrigeration and was awarded with the Second Prize under State Technological Invention Award.

Five Magic Weapons for Energy Saving

Imported high-efficiency compressor + separated evaporator + composite heat exchanger + optimized fractional condensation & separation system + high-efficiency thermal insulation system can save energy and reduce power consumption of the freezer by 40%.

Low Noise Design

Low-noise direct cooling circuit + suspension frame & sound absorbing compartment & low-noise fan can reduce noise generated by the entire freezer to the largest extent.

Three-dimensional Thermal Insulation

The six sides of the cabinet are made from high-efficiency VIP vacuum thermal insulation plate, and the thermal insulation design of the inner door made from foaming material and the outer door system was awarded with multiple patents, which can improve the thermal insulation performance of the freezer.



7" LED Screen Control System

- The 7"LED touch screen has clear display, user-friendly interface and more accurate temperature control, which can indicate operating status clearly
- The high-precision microcomputer control system and platinum resistor sensors enable users to set temperature inside the cabinet within a range from -10 to -86°C



Security System

- The perfect audible & visual alarm system : high and low temperature ,sensor error ,power failure ,low battery ,door ajar ,main board communication error high ambient temperature ,samples out of date notification etc
- The compressor start delay and stopping interval protection can ensure reliable operation;
- Both the touch screen controller and key board controller have password protection which can prevent any adjustment of operation without permission



Refrigeration System

- The imported high-efficiency compressor and EBM fan are energy-saving and highly efficient
- The large finned condenser with a space between fins≤2mm, providing affective heat dissipation
- MO 678S/ 778S/ 858S/ 1008S with twin compressor, if one is damaged, the other one could keep the temperature at -70°C stably
- Standard with VIP board for high efficiency cooling performance. Door with hot gas pipe surrounding for defrost



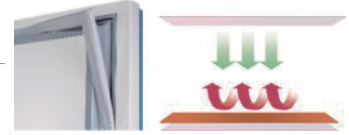
Supplies for Cryopreservation

Inventory racks/boxes for cryopreservation are optional.



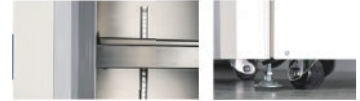
Alarm Upgrading

USB data storage function: can store relevant operating data, which can be downloaded and checked, ensuring improved security and reliability of sample storage.



Human-oriented

- The two-layer heat insulating foamed door with inner and outer door seal and the insulation design of the outer door system with multiple patents can prevent loss of refrigerating capacity in an effective way;
- The six sides of the cabinet are made from high-performance VIP vacuum insulation material, improving thermal insulation performance to a large extent



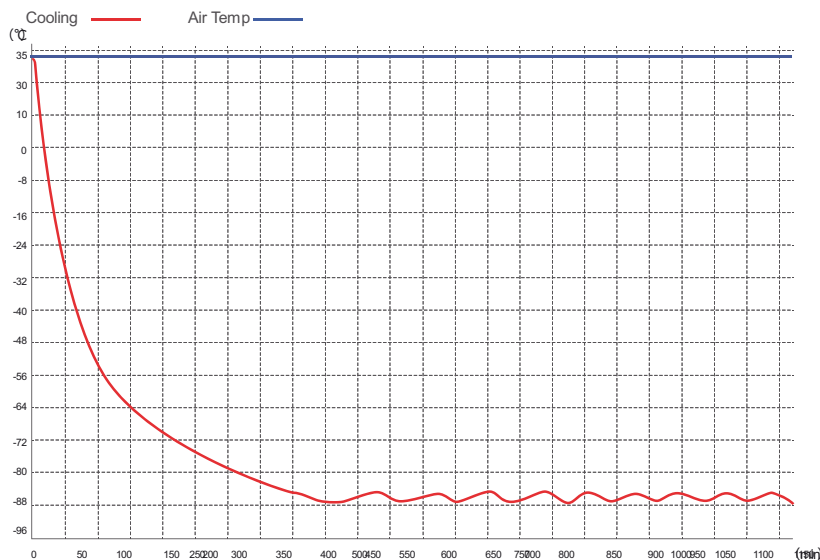
Human-oriented

- The new designed assisting handle and vacuum release port let the freezer be operated single-handed to open and close the outer door.
- The newly added file box makes recording easier and more convenient.
- The liner made from stainless steel 304 for medical use is low-temperature tolerant and corrosion-resistant, which has a long service life and is easy to clean;
- The universal casters and leveling feet design are more convenient for movement and fixation.

✓ Scope of Application

Suitable for use in blood banks, hospitals, health and disease prevention systems, research institutions, colleges & universities, the electronic industry, biological engineering, laboratories in colleges & universities, military enterprises, deep-sea fishing companies, etc.

🔗 Performance Data / Cooling Curve



Model	MO 678S	MO 778S	MO 858S	MO 1008S
Effective Volume(L)	678	778	858	1008
Input Power(W)	1450	1450	1825	1900
External Dimensions(W*D*H,mm)	1090*1025*1955	1205*1025*1955	1217*1025*2005	1362*1025*2002
Internal Dimensions(W*D*H,mm)	750*696*1286	865*696*1286	877*696*1378	1022*696*1378
Net Weight(Kg)	330	380	390	430
Inventory Rack(Model & Quantity)	ZKL304-552B-CT:20	ZKL304-552B-CT:24	ZKL304-552B-CT:12+ ZKL304-552B-CT 12	ZKL304-552B-CT:14+ ZKL304-552B-CT 14
Inventory 2"Box (pc)	5*5*20=500	5*5*24=600	5*5*12+6*5*12=660	5*5*14+6*5*14=770
Inventory 2ml Vial (pc)	50000	60000	66000	77000
Rated Current (A)	7.5	7.5	8.5	9.3
Power Consumption (kWh/24h)	14.4	14.5	16.5	19.15
Shelves	3 pcs	3 pcs	4 pcs	3 pcs
Inner Doors	4 pcs	4 pcs	2 pcs	2 pcs
Performance				
Temp.Range(°C)	-10 ~ -86	Ambient Temperature		16°C - 32°C
Cooling	Direct cooling	Evaporator		D-form copper tube
Data Output	USB	Defrost		Manual defrost
Alarm	Visual & Audio; High/low temperature alarm, power failure alarm, low battery alarm, door ajar alarm, filter blocking alarm, system failure alarm.			
Construction				
Compressor	2 pc	Fan Motor		EBM
Compressor Brand	Secop (danfoss)	Inner Material		Galvanized steel sheet (optional Stainless steel)
Casters	4 casters with 2 leveling feet	External Material		SPCC steel with powder coating
Access Test Port	3 pcs	Sealing Material		MVQ
Door Lock	Yes	Display		Touch screen
Insulation Thickness (mm)	130	Refrigerant		CFC-Free mixture gas
Insulation	VIP Plus vacuum insulation panel	Climatic		N
Optional				
Chart Recorder	Optional	Data Logger		Optional
CO2 Back up System	Optional	Backup Battery		Optional

