







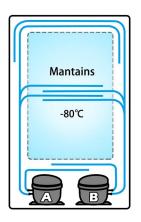


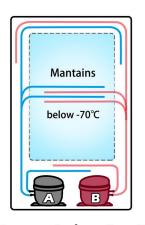


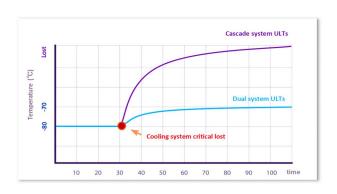
GET STARTED WITH DUAL SYSTEM ULT FREEZERS

COOLING PERFORMANCE ADVANCED INSULATION INTELLIGENT CONTROLLER High-performance reliable compressors Internal V.I.P panels reduce cold loss Eye-level 7" color touch screen for simple Excellent performance even in extreme CFC-free high-density PU foam ambient conditions Better warm up time keeps the samples and intuitive operation Low noise operation @ 50dB Integrated temperature display, graphs, cold as long as possible once power failure CFC-free mixed refrigerant Freezer status, and events mornitoring Complete alarm system escorts your valuable bio-samples - 86.0°C **EXECELLENT EXTENSIBILITY** Internal USB data logger **USER-FRIENDLY DESIGN** Equiped with romote alarm interface Optional RS485 contact Automatic vacumm release port allows Optional water cooling system users to open&close the door frequently Ergonomic one-handed operation handle Optional temperature chart recorder File box design for keeping daily files Optional electronic Password Lock Standard built-in door lock and padlock port **OPTIMIZED CONSTRUCTION** Quick-release condenser cover Sturdy shell & chamber for longer service life Heavy duty fuma universal castors Heavy duty leveling castors MDF - 86 V 588 D Model Code Temp. Range Type Capacity Series Medical Ultra-low 408 liters 588 liters **Dual Cooling** Deep -40°C ~ -86°C Vertical temperature 728 liters 838 liters Freezer Freezer

DUAL COOLING TECHNOLOGY







Normal operation

Unexpected on A or B

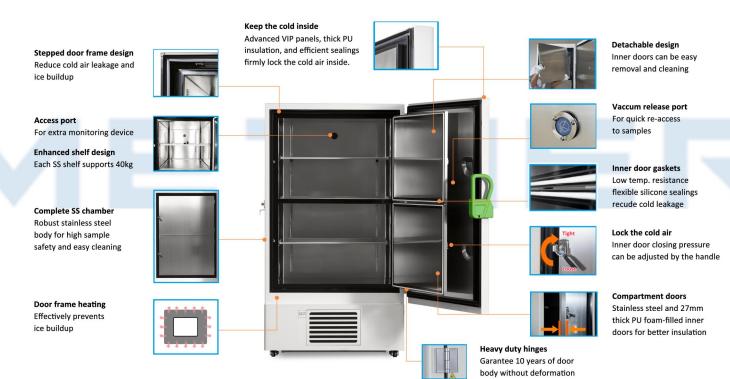
Maximum safety for preservations

Dual system is designed with 2 independent cooling systems which provides extra insurance for Bio-samples. Should one system unexpectedly fail, the other will maintain a temperature in the -70 $^{\circ}$ C range ensuring that the sensitive samples not put at risk separately.

INNER QUALITIES ARE MORE IMPORTANT

(1)

DELICATE INTERIOR





User-friendly design



Stable performance



Excellent insulation



Energy-saving



CFC-free



Quiet operation



HUMANIZED DESIGNS



Quick release megnetic filter



One-hand operation



File-box for keeping Logbooks



Easy access USB interface



SMART CONTROLLER



Complete alarm function



Monitoring of status



Temp. graphs & downloading

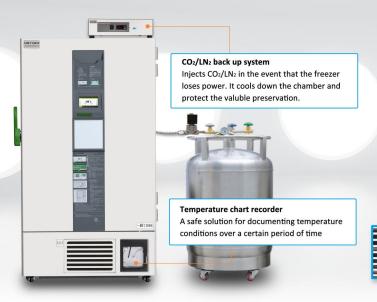


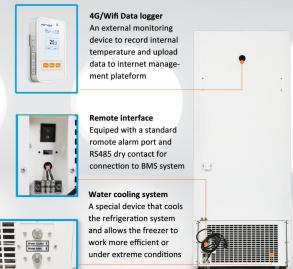
Parameter settings

MORE THAN AN ULTRA-LOW FREEZER



SUPER EXTENSIBILITY







ACCESSORIES



110V System

The freezer can be customized to operate on 110V power, making it suitable for use in countries with 110V power supply.



Data Logger (Tlog-100EC)

Tlog-100EC is a monitoring device independent of the freezer, it can record the realtime temperature in the chamber and provide the necessary alerts to protect your irreplaceable samples



CO₂/LN₂ Back-up System

The back-up system injects liquid CO₂/LN₂ on demand when cabinet temperature warms to a pre-set level. Back-up system includes all hardware except the supply cylinder. In the event of a power failure, the system will operate on a charged battery.



Aditional Shelves

Each ULT freezer comes standard with 3 shelves. Extra shelves are available and each shelf comes with 4 clips.



Ice Scraper

Ice scraper is available for cleaning ice built up on door gasket, PEP and other places in the freezer



Stainless Steel Racks

Store the 2" cyo-boxes within organized freezer racks. High quality stainless steel racks to optimize your freezer space and makes it easy to find the items you desire.



Voltage stabilizer

It is for regions with unstable voltage to ensure optimal operating conditions for the freezers.



4G/Wifi Data Logger (RCW-360P)

RCW-360P is a networked device that can upload realtime temperature data to the cloud. Users can monitor and manage the data through the mobile app or web basedcloud platform.



6" Temperature Chart Recorder

The chart recorder provides an easy-to-read graph of data vs time. It is a reliable, accurate, and stable instrument, for on-the-spot written documentation of freezer chamber temperature.



6" Temperature Chart

6" Temperature Chart, 7day, 54/pack



Cryo Safety Gloves

Mid-arm style cryo safety gloves are available for use with ultra-cold surfaces. Cryo safety gloves protect hands and arm when inserting or removing inventory



Cryo-boxes & Cryo-tubes

Fit into ULT freezers. The outer footprint dimensions (133mm) are compatible with common racks and the inner grid provides for a perfect fit to cryotubes.



MANAGE YOUR BIO-SAMPLES PERFECTLY



CRYO-RACKS & CRYO BOXES

Store your freezer storage boxes within organized freezer racks. Stainless steel racks are optional to optimize your freezer space and makes it easy to find the items you desire. We offer variety of racks for our freezers. These racks are made of high-quality stainless steel and help you organize the samples inside your freezer.

Optimize your limited freezer space				
Model	N3J-244D	N3J-254D	N3J-255D	MN3J-264D
Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Box type	2 inch 9*9/10*10	2 inch 9*9/10*10	2 inch 9*9/10*10	2 inch 9*9/10*10
Box layout(H*D)	4 * 4	5 * 4	5 * 5	6 * 4
Box Qty(pc)	16	20	25	24
Dimensions W*D*H(mm)	140*559*236	140*559*291	140*686*291	140*559*350
Net weight (kg)	3.4	4.3	5.2	5.0

Organize your numerous bio-samples				
Model	Cardboard box	PP box	PC box	
Material	Cardboard	Polypropylene	Polycarbonate	
Temp. range	-196℃~121℃			
Grid	9*9 wells for crew-cap vial			
Gria	10*10 wells for internal-thread vial			
Cryo-vial	0.5/1.5/1.8/2.0ml			
Dimensions W*D*H	133*133*53mm			



CRYO-RACKS LAYOUT

Fit into your daily lab work				
Model	MDF-86V408D	MDF-86V588D	MDF-86V728D	MDF-86V838D
Layout	N3J-254D*8	N3J-255D*16	N3J-254D*18	- N3J-255D*24
	N3J-244D*8		N3J-264D*6	
Boxes (2 Inches)	288	400	504	600
Cryo-vial (2ml)	28,800	40,000	50,400	60,000

PARAMETERS OF DUAL SYSTEM ULT FREEZERS

	ieneral arameters	MDF-86V408D	MDF-86V588D	MDF-86V728D	MDF-86V838D
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	Shelf/drawer QTY	Stainless steel shelf/3	Stainless steel shelf/3	Stainless steel shelf/3	Stainless steel shelf/3
Suc	Cooling	Direct cooling	Direct cooling	Direct cooling	Direct cooling
Spesifications	Defrost	Manual	Manual	Manual	Manual
≟	Refrigerant	R4001	R4001	R4001	R4001
Ses	Noise(db)	53	53	55	55
\ \cdot \	Ambient temperature (℃)	10~32℃	10~32℃	10~32℃	10~32℃
	Temperature range (℃)	-40~-86°C	-40~-86°C	-40~-86℃	-40~-86℃
	Compressor brand/QTY	SECOP/2	SECOP/2	SECOP/2	SECOP/2
	Cooling system	Dual cooling	Dual cooling	Dual cooling	Dual cooling
Cooling	Sensor	PT 100	PT 100	PT 100	PT 100
lg st	Temperature controller	Microprocessor	Microprocessor	Microprocessor	Microprocessor
0 %	Display	7" LCD touch screen	7" LCD touch screen	7" LCD touch screen	7" LCD touch screen
	Pull down time*(min)	245	178	247	268
	Warm up time**(min)	234	273	292	304
 	Voltage/frequency (V/Hz)	220V/50Hz	220V/50Hz	220V/50Hz	220V/50Hz
Power	Power Consumption(kWh/24h)	13.8	16.23	23.44	19.98
	Power (W)	1350W	1500W	1400W	1700W
Material	Internal material	Stainless steel	Stainless steel	Stainless steel	Stainless steel
ate	External material	Color sprayed steel	Color sprayed steel	Color sprayed steel	Color sprayed steel
Σ	Insulation	VIP + PURF	VIP + PURF	VIP + PURF	VIP + PURF
	Capacity (L/cu.ft)	408/14.40	588/20.76	728/25.7	838/29.59
붊	NT./GT.(kg)	235.5/278	283/345.5	316/392	310/383.5
Ĕ	Exterior size(W*D*H)(mm)	891*992*1945.5	891*1155*1994.5	1248*975*1994.5	1179*1135*1994.5
5	Interior size(W*D*H)(mm)	606*575*1180	606*738*1310	963*571*1350	894*718*1310
Measurement	Package size(W*D*H)(mm)	954*955*2094	970*1138*2185	1320*970*2185	1262*1098*2185
≥	Shipping CBM	1.93	2.45	2.8	3.12
	20GP/40GP/40HQ	12/24/24	12/24/24	10/21/21	8/18/18
	Racks	N3J-254D*8	N3J-255D*16	N3J-254D*18	N3J-255D*24
Rack	2 (21.1.)	N3J-244D*8	100	N3J-264D*6	500
ě.	Boxes (2 Inches)	288	400	504	600
	Samples(2ml)	28800	40000	50400	60000
	High/low temperature	Y	Y	Y	Y
	Power failure	Y	Y	Y	Y
	Abnormal voltage				Y
S	Sensor error	Y	Y	Y	Y
Alarms	Filter screen check	Y	Y	Y	Y
∣≌	Thermostat failure	Y	Y	Y	Y
	Low battery	Y	Y	Y	Y
	Condenser clean	Y	Y	Y	Y
	High ambient temperature	Y	Y	Y	Y
	Door ajar Power failure backup			Y	Y
		72h Y	72h Y	72h Y	72h Y
	Castor Compartment (door Oty				
	Compartment/door Qty	1/250004	4/2 1/25MM	4/2 1/35MM	4/2 1/25MM
ξ	Access port QTY/diameter	1/25MM	1/25MM	1/25MM	1/25MM
)rrie	USB port	Ontional	Y Ontional	Y	Ontional
SSC	RS485 interface	Optional	Optional	Optional	Optional
Accessories	LN2/CO2 backup system	Optional	Optional	Optional	Optional
	Chart recorder	Optional	Optional	Optional	Optional
	Data logger	Optional	Optional	Optional	Optional
	Remote alarm port	Υ	Υ	Υ	Υ

^{*} Pull down to -80°C @ ambient temperature 25°C (No load) ** Hold over to -40°C @ ambient temperature 25°C (No load)

