

Be your expert in low-temperature protection solutions



2~8 degree refrigerator

Widely used in hospitals pharmacy stores and laboratories. For preserving storage such as drugs, vaccines, enzymes hormones, stem cells, extracted RNA and gene libraries and important biological and chemical reagents.



Blood bank refrigerator

An essential piece of equipment in the immunohematology department and provides safe storage of whole blood, blood components and reagents.



-20/-40/-60 freezer

Biomedical Deep Freezers are widely used in hospitals and laboratories. Designed to store vaccines, blood plasma and many other biological materials.



Horizontal freezer

Top loading with various volume, 60 liter~600 liter for your choice.



Professional Solution Provider of Laboratory/Pharma Equipment

- | | | |
|--------------------------------|--------------------------|------------------|
| Water Purification System | Biofermentation Solution | Glassware Washer |
| Freeze Dryer/Lyophilizer | Shaking Incubator/Shaker | Autoclave |
| Biosafety Cabinet/Laminar Flow | Cold Storage Solution | Climate Chamber |



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Dual cooling
ULT Freezer



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MF-86V838TDV MF-86V128V+MF-86V75V MF-86V75V

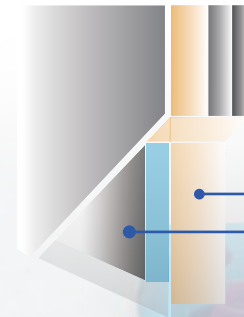
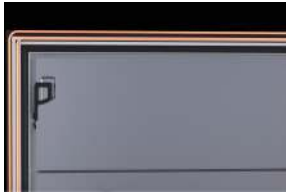
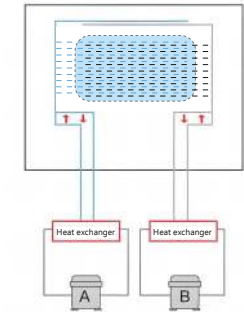
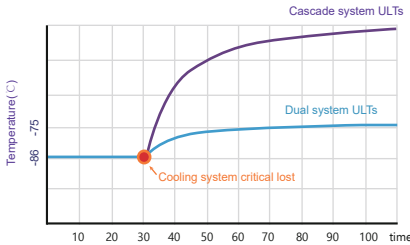
This product is designed for use in various sectors, including clinical, pharmaceutical, scientific research, and quarantine departments, for the preservation of items under low temperatures. Additionally, it is suitable for blood stations, hospitals, disease control and prevention centers, scientific research institutions, electronic chemical engineering labs, biomedical engineering research facilities, ocean fishing companies, and more, for the preservation of red blood cells, white blood cells, viruses, bacteria, skin, skeletons, semen, biological products, electronic devices, and specialized materials at low temperatures.

Product Highlights

Dual Cooling System

Dual cooling system can permit refrigeration and compressor systems to work together to maintain set point temperature of -86 °C and secondary temperatures of at least -75 °C in case of a service event.

(Single auto cascade system :MF-86V75V MF-86V128V)



Variable Speed Compressor

Variable speed compressor ensures minimal temperature fluctuations for extremely stable uniformity, and it is energy-efficient which can extend the lifespan of the freezer. Automatic restart after power supply is restored. Automatic restart after power supply is restored.

High-definition LED display

High-definition LED display, visible in far distance. Various alerts: high/low temperature, power failure, door ajar, condenser dirty etc. Password for protection.

Refrigerator Door Defrosting System

The duct transfers the waste heat generated by the compressor's exhaust to the cabinet shell, raising the surface temperature of the door frame area above the ambient dew point. When moist air comes into contact with the door frame, it does not condense into water droplets.

Rapid Pressure Equalization Valve / Access Port

Act as rapid pressure equalization valve by pressing button for 5-10 seconds to open the door quickly. Take off the cap to be used as access port for additional thermometer sensor.

Superior insulation performance

Adopts VIP panel to maintain good insulation performance and ensure the maximum available storage capacity. Insulation Material is Polyurethane+LBA.

Model	MF-86V428TDV	MF-86V568TDV	MF-86V728TDV	MF-86V838TDV	MF-86V958TDV
Style	Free standing				
Ambient temperature	+5 to +32				
Temperature range (°C)	-40 ~ -86				
Cooling Type	Direct cooling, Manual defrost				
Refrigerant	Hydrocarbon gas(R600a/R1150/R50)				
Uniformity	3 (set at -80 °C)				
Noise Level (dB(A))	48	48	50	50	50
Capacity (Cu.Ft/L)	15.11ft³(428L)	19.99ft³(566L)	25.46ft³(721L)	29.49ft³(835L)	33.83ft³(958L)
Entrance Dimensions (mm)	728	870	890		
Outer Dimensions.WxDxH mm (including handle)	720x972X1980	870x972X1980	1035x950X1980	1145x995x1980	1286x950X1980
Inner Dimensions.WxDxH mm	450x720x1310	600x720x1310	765x720x1310	885x720x1310	1016x720X1310
Net Weight/Gross Weight (kg)	220/266	255/306	294/350	325/385	355/420
Contoller/Display	10' Touch screen, microcomputer controller with Pt100 sensor,display accuracy 0.1				
Controller Security	Screen lock with password				
Qty. Of Compressor	2				
Cooling system	Dual cooling system				
Qty. of shelves	3	3	3	3	3
Qty of apartment	4	4	4	4	4
Qty. of inner door	2	2	2	2	2
Caster/Foot	Lockable caster				
Heated Vaccum Release	YES				
Remote Dry Contact	YES				
RS485/USB/Access Port	YES				
Interior Material	Stainless steel				
External Material	Powder coated galvanized sheet				
Inner Door Material	Powder coated galvanized sheet				
Insulation	Polyurethane+LBA+ VIP panel				
Insulation Thinkness (mm)	90				
High/Low Temperature Alarm	YES				
Condenser Dirty Alarm	YES				
Power Failure Alarm	YES				
Sensor Error Alarm	YES				
Low Battery Alarm	YES				
Ambient Temperature Alarm	YES				
Door Ajar Alarm	YES				
Power Consumption (kW.h/24h)	6.95	7.95	8.86	10.65	12.75
Rated Current (A)	115V 10A 220V 5A	115V 10A 220V 5A	115V 10A 220V 5A	115V 10A 220V 5A	115V 10A 220V 5A
Power (W)	900	900	1000	1200	1200
Power Supply (V/Hz)	100V ~240V 50/60Hz				
Type Of Cryobox	2" vial, 10x10				
Type Of Cryorack	5x5	5x5	5x5	5x5	5x5
Rack Per Shelf	3	4	5	6	7
Qty. Of Rack	12	16	20	24	28
Qty. Of Box	300	400	500	600	700
Qty. Of Vials (2ml)	30000	40000	50000	60000	70000
Certifications	CE/ETL				
Outside Door	180° open to pass through door easily				
Package Material	Plywood pallet+ Carton box				

* INNOVA reserves the right to renew models or specifications without prior notice.