

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  
Freeze Dryer/Lyophilizer  
Biosafety Cabinet/Laminar Flow

Biofermentation Solution  
Shaking Incubator/Shaker  
Cold Storage Solution

Glassware Washer  
Autoclave  
Climate Chamber



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Dual cooling  
ULT Freezer



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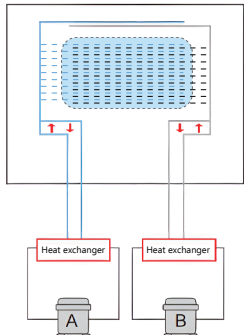




MF-86V838TDV   MF-86V128V+MF-86V75V   MF-86V75V

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.

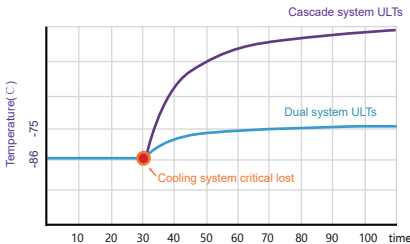
## Product Highlights



### 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.



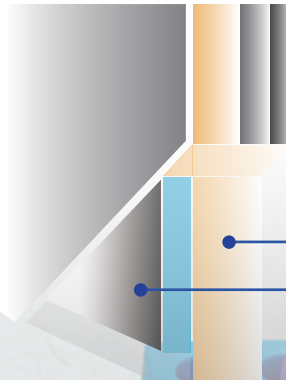
### User Friendly Touch Screen

10' High sensitivity touch screen for users to easily adjust various settings of the freezer to meet personalized usage needs and improve the user experience.



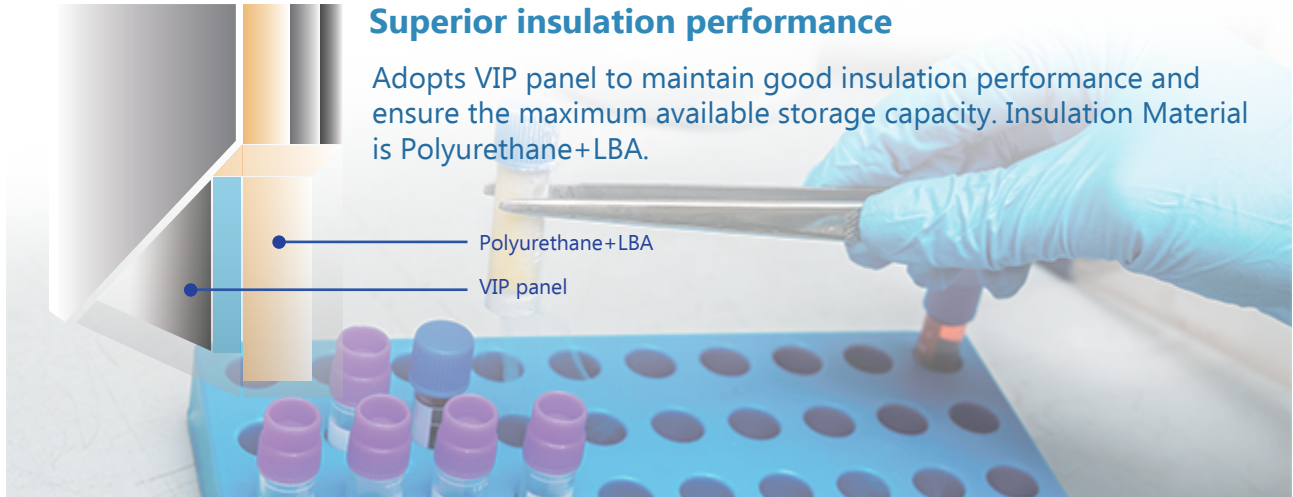
### Refrigerator Door Defrosting System

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.



### 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)   |
| Outer Dimensions.WxDxH mm (including handle) | 720x950X1980                                                                      | 870x950X1980     | 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          |
| Controller/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)                          | 110V ~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.