

Smart-Inverter ULT Freezer

Scope of Application

Applicable for products and samples which require strict storage, biological products, electronics and special materials. Products are widely used in hospitals, disease control, CDC, scientific research institutions biomedical engineering institutes, agriculture/fishery companies.



MDX-86L838

Smart-Inverter ULT Freezer

Smarter by Design

Genetix Smart-Inverter ULT Freezer are designed to be energy saving. The control system automatically tunes the speed of the compressors to optimize the operation.



Smart-Inverter Technology

Variable speed compressors are coupled in the freezer, the compressors will work based on the loads and inter change fluctuation. The control system automatically tunes the speed of the compressors to optimize the operation.



Low Energy Consumption

Smart-Inverter freezer coupled with environmentally safe and friendly hydrocarbon refrigeration system, allows the freezers to operate at a low level of energy consumption.



High Temperature Stability

The innovative control algorithm balances the effects of temperature loss with the unique frequency conversion refrigeration system, ensuring the cabinet temperature stability.



Active ECO Technology

Genetix active ECO technology can significantly reduce energy consumption and maintain good interior temperature uniformity at the same time.

1 Multi-layer Silicone Sealing Structure

Multi-layers silicone gaskets provide a tight seal between the inner doors and outer door, reducing heat exchange rate and retaining the inner temperature better when there is power failure.



2 Multi-level Alarms

Alarm functions include high, low temperature, sensor error, power failure, high ambient alarm, door open alarm etc.



3 Ingenious Handle Design

Ingenious handle design helps you easy to open and close door easier. Lockable handle safeguards your precious samples. Padlock can also be added for extra sample safety.



4 Maximum Samples Storage

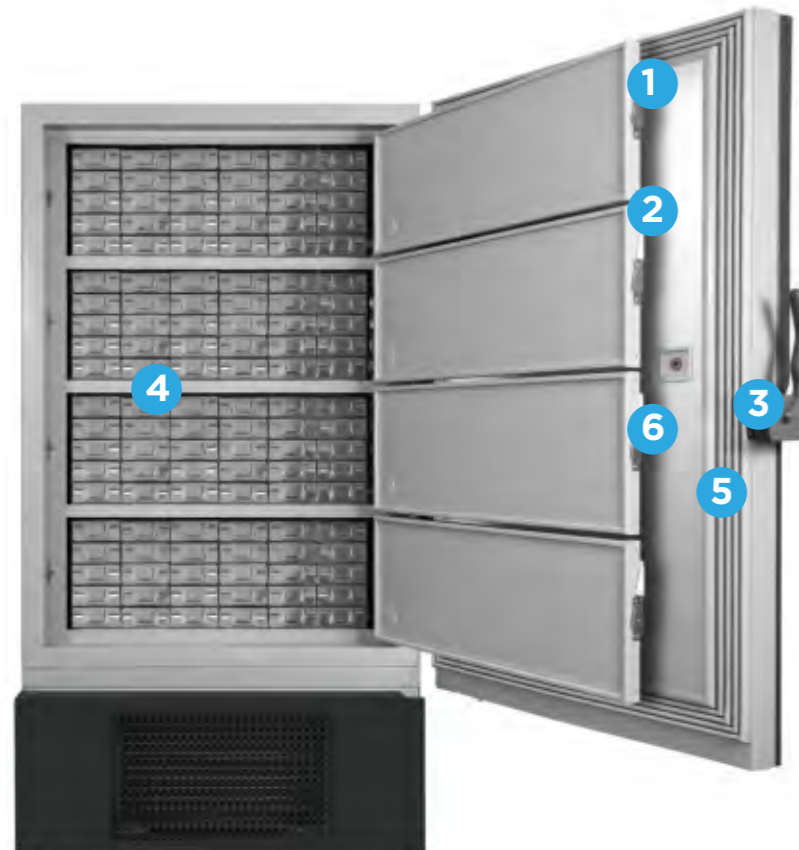
Optimized dimension design provides maximum inner space for 40,000.pcs 2ml vial.

5 USB Interface

Enables users to download historical temperature data for compliance/auditing purposes.

6 Heated Pressure Equalization Port

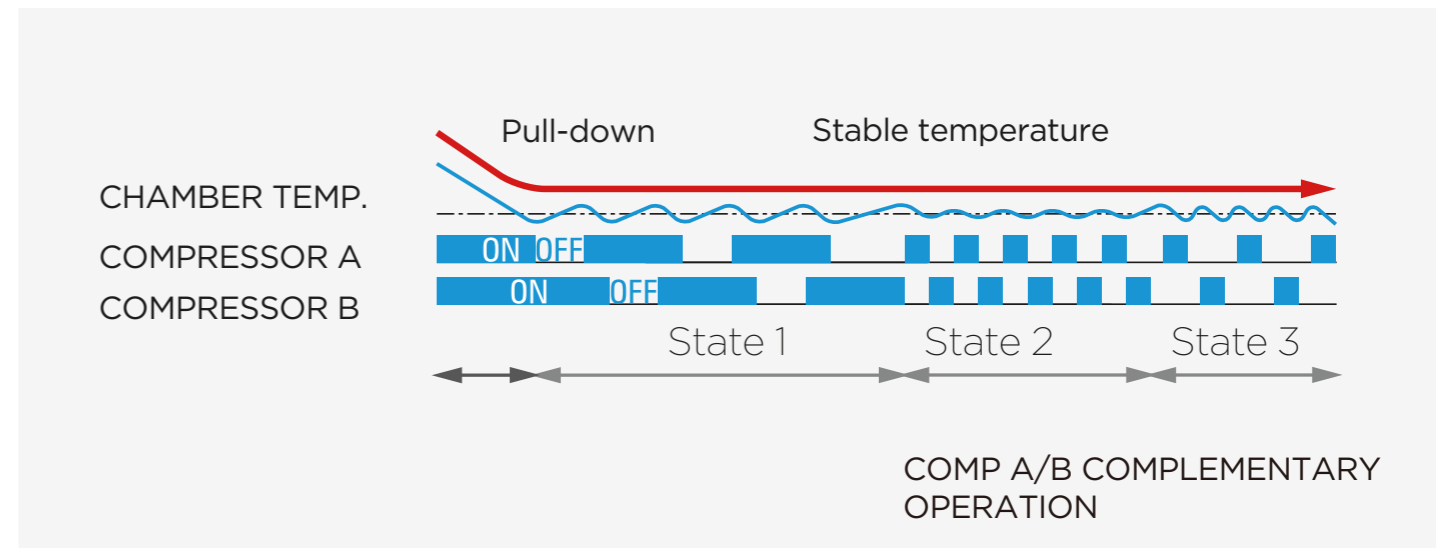
It allows users to re-open the main door quickly when entering, rust-proof, freeze-free.



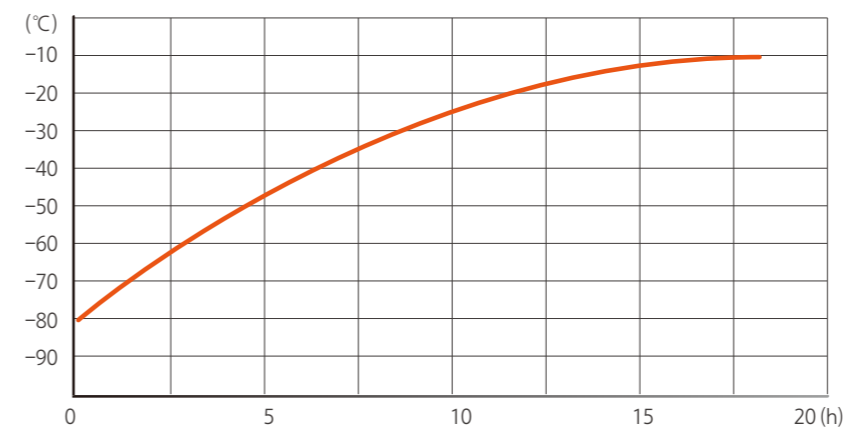
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Genetix Active ECO Technology is applied to all Genetix ULT freezer, which means all the products default to run in ECO mode. Based on ECO technology, the compressors performance based on the loads or temperature change.

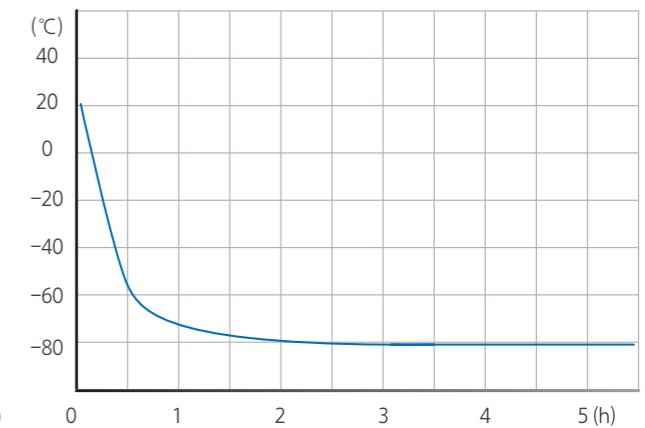
The control system automatically tunes the speed of the compressors to optimize the operation. So, Genetix Active ECO Technology can significantly reduce energy consumption while maintaining good interior temperature uniformity.









Temperature recover curve



Temperature cool down curve



| Item | Model No. | MDX-86L568 | MDX-86L568T | MDX-86L718 | MDX-86L718T | MDX-86L838 | MDX-86L838T |
|-----------------|----------------------------------|---|---|---|---|---|---|
| Product Image | Product Image |  |  |  |  |  |  |
| Technical Data | Cabinet Type | Upright | Upright | Upright | Upright | Upright | Upright |
| | Climate Class | N | N | N | N | N | N |
| | Cooling Type | Direct cooling | Direct cooling | Direct cooling | Direct cooling | Direct cooling | Direct cooling |
| | Defrost | Manual | Manual | Manual | Manual | Manual | Manual |
| | Cooling System | Twin Cooling | Twin Cooling | Twin Cooling | Twin Cooling | Twin Cooling | Twin Cooling |
| | Refrigerant | Mixed refrigerant | Mixed refrigerant | Mixed refrigerant | Mixed refrigerant | Mixed refrigerant | Mixed refrigerant |
| | Total Storage Volume(L) | 568 | 568 | 718 | 718 | 838 | 838 |
| | 2ml Cryo Tube Qty | 40000 | 40000 | 50000 | 50000 | 60000 | 60000 |
| | External Material | High quality coated steel | High quality coated steel | High quality coated steel | High quality coated steel | High quality coated steel | High quality coated steel |
| | Inner Material | Stainless steel | Stainless steel | Stainless steel | Stainless steel | Stainless steel | Stainless steel |
| Control | Controller | Microprocessor | Microprocessor | Microprocessor | Microprocessor | Microprocessor | Microprocessor |
| | Display | LED | Touch Screen | LED | TouchScreen | LED | Touch Screen |
| | Temperature Accuracy(°C) | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| | Temperature Range | -40 ~ -86°C | -40 ~ -86°C | -40 ~ -86°C | -40 ~ -86°C | -40 ~ -86°C | -40 ~ -86°C |
| Dimensions | Product Dimensions(mm)(wxdxh) | 885*995*1980 | 885*995*1980 | 1030*995*1980 | 1030*995*1980 | 1175*995*1980 | 1175*995*1980 |
| | Interior Dimensions(mm)(wxdxh) | 595*720*1310 | 595*720*1310 | 740*720*1310 | 740*720*1310 | 885*720*1310 | 885*720*1310 |
| Electrical Data | Power Supply | 110-240V /50 ,60HZ | 110-240V /50 ,60HZ | 110-240V /50 ,60HZ | 110-240V /50 ,60HZ | 110-240V /50 ,60HZ | 110-240V /50 ,60HZ |
| Functions | High Temperature Alarm | Y | Y | Y | Y | Y | Y |
| | Low Temperature Alarm | Y | Y | Y | Y | Y | Y |
| | Door Ajar | Y | Y | Y | Y | Y | Y |
| | Power Failure Alarm | Y | Y | Y | Y | Y | Y |
| | High condenser temperature alarm | Y | Y | Y | Y | Y | Y |
| | High ambient Temperature Alarm | Y | Y | Y | Y | Y | Y |
| | Low Battery | Y | Y | Y | Y | Y | Y |
| | Sensor Failure alarm | Y | Y | Y | Y | Y | Y |
| | USB Interface | Y | Y | Y | Y | Y | Y |
| | Door Heating | Y | Y | Y | Y | Y | Y |
| | Porthole | Y | Y | Y | Y | Y | Y |
| | Universal Wheel | Y | Y | Y | Y | Y | Y |
| | Caster | Y | Y | Y | Y | Y | Y |