

-86°C ULT Freezer DW-86L728J



GENERAL

| | | |
|-----------------------------|----|----------------|
| Storage Capacity(L/Cu.Ft) | | 728/25.7 |
| Temperature Range(°C) | | -40~-86 |
| Noise (dB(A)) | | 50 |
| Net/Gross Weight (kg) | | 345/385 |
| Exterior Dimensions(W*D*H) | mm | 1041*980*1980 |
| | in | 41.0*38.6*78.0 |
| Interior Dimensions (W*D*H) | mm | 766*716*1310 |
| | in | 30.2*28.2*51.6 |

ENVIRONMENTAL & ELECTRICAL DATA

| | | |
|-------------------------------|--|------------|
| Electrical Power (V/Hz) | | 220~240/50 |
| Power (W) | | 1000 |
| Power Consumption (kW-hr/day) | | 10.5 |
| Electrical Current (A) | | 10 |
| Building Supply Rating (A) | | 16 |
| Power Lead Length (m) | | 2.5 |
| Heat Rejection (btu/hr) | | 35827 |
| Ambient Temperature | | 10°C~32°C |

REFRIGERATION CONFIGURATION

| | | |
|------------------------------|--|--|
| Refrigeration System Type | | Direct cooling |
| Compressor Type/Brand/Number | | Hermetic Reciprocating Type/SECOP/2 |
| Compressor Capacity(W) | | 950 |
| Evaporator Type | | Cold Wall With Enhanced Heat Transfer Treatment |
| Defrost Method | | Manual |
| Refrigerant Charge/Flammable | | R290 in 1st Stage / R290+R170 Mix in 2nd Stage / Flammable |

CONTROLLER/ELECTRICAL SYSTEM FEATURES

| | |
|---------------------------------|---|
| Controller Level | Top |
| Power Switch | On-Off with Circuit Breaker |
| Controller Type | Microprocessor Control, Bright LED Display, USB Data Export |
| Setpoint Security | Yes |
| Controller Sensor | PT100 |
| Remote Alarm Terminals | Remote Alarm Port, RS232/RS485 (Optional) |
| Adjustable High/Low Temp Alarms | Adjustable |
| Auto Voltage Safeguard | / |

CONSTRUCTION

| | |
|-------------------------------------|--|
| Insulation | VIP+CFC Free Foaming Agent |
| Exterior Door Seal | Four Seal On the Outside Door Seal Strip |
| Interior Door Seal | One Seal On the Interior Door Seal Strip |
| Shelves/Capacity/Dims/Material | 3 stainless steel adjustable shelves with dimension 750*677 mm(W*D), max capacity per shelf:90 kg,198.4 lbs |
| Casters | All-direction caster with fixing stand |
| Exterior Material | Color Coating Steel Plate |
| Interior Material | Color Coating Steel Plate |
| Door Thickness | 90mm |
| Cabinet Thickness | 90mm |
| Inner Door | Four Solid Door |
| Condenser Type | Enhanced Micro-Channel and Forced-Air Cooled |
| Fan Brand | EBM |
| Back Up Battery For Alarm Functions | Support high/low temperature, power failure, door open, sensor failure, high ambient temperature, hot condenser and low battery alarms |

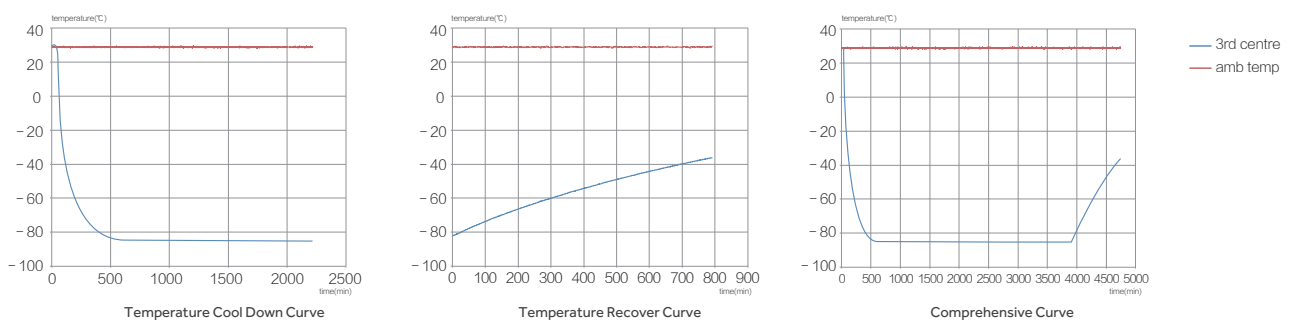
PERFORMANCE

| | |
|---|-----|
| Temperature Uniformity(°C) | 6 |
| Temperature Accuracy(°C) | 1 |
| Cool Down Time (25 °C ambient to -80 °C) mins | 320 |
| Warm Up Time (25 °C ambient -80 °C to -50 °C) mins | 310 |
| 1 Min Door Open Recovery Time (ambient 25 °C running temp -75 °C)mins | 30 |

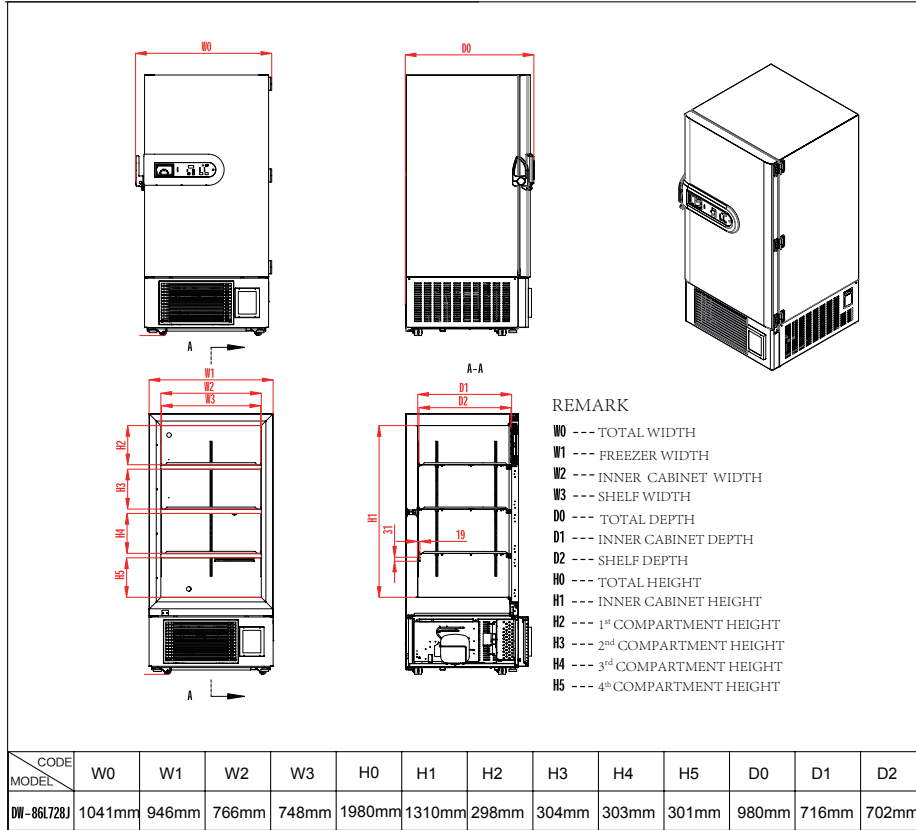
CERTIFICATE

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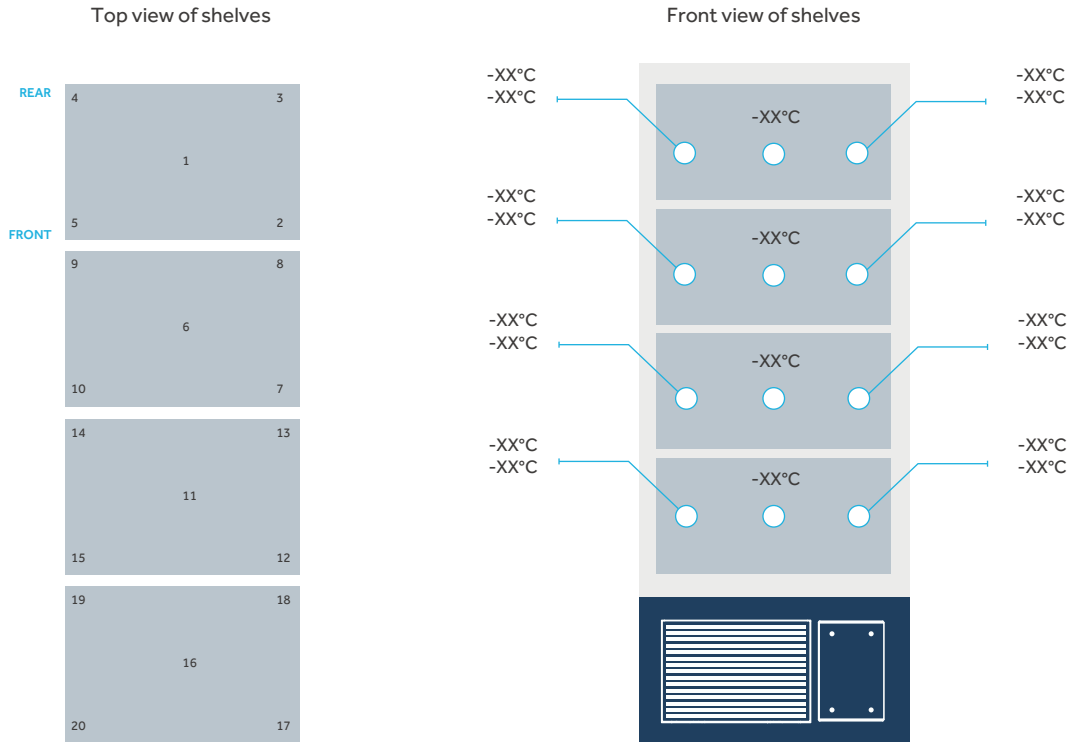
TYPICAL PERFORMANCE CHARACTERISTICS IN 25 °C AMBIENT



PRODUCT DIMENSION DRAWINGS



TYPICAL CABINET TEMPERATURE MAP



| °C | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Max. | -77.1 | -77.3 | -77.2 | -77.3 | -77.1 | -77.7 | -79.5 | -79.5 | -80.4 | -79.7 |
| Min. | -80 | -80.2 | -80.4 | -80.2 | -79.4 | -80.7 | -81.9 | -81.9 | -83.1 | -81.9 |
| Avg. | -78.6 | -78.8 | -78.8 | -78.8 | -78.3 | -79.2 | -80.7 | -80.7 | -81.8 | -80.8 |

| °C | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Max. | -80.4 | -80 | -80.8 | -80.6 | -80.4 | -77.7 | -77.6 | -77.9 | -78.9 | -77.9 |
| Min. | -82.2 | -81.5 | -82.7 | -82.5 | -82.1 | -79.3 | -79.3 | -79.7 | -80.7 | -79.7 |
| Avg. | -81.3 | -80.8 | -81.8 | -81.6 | -81.3 | -78.5 | -78.5 | -78.8 | -79.8 | -78.8 |



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