

## -86°C ULT Freezer DW-86L828J



### GENERAL

|                             |    |                |
|-----------------------------|----|----------------|
| Storage Capacity(L/Cu.Ft)   |    | 828/29.2       |
| Temperature Range(°C)       |    | -40~-86        |
| Noise (dB(A))               |    | 50             |
| Net/Gross Weight (kg)       |    | 380/410        |
| Exterior Dimensions(W*D*H)  | mm | 1145*980*1980  |
|                             | in | 45.1*38.6*78.0 |
| Interior Dimensions (W*D*H) | mm | 870*716*1310   |
|                             | in | 34.3*28.2*51.6 |

### ENVIRONMENTAL & ELECTRICAL DATA

|                               |  |            |
|-------------------------------|--|------------|
| Electrical Power (V/Hz)       |  | 220~240/50 |
| Power (W)                     |  | 1000       |
| Power Consumption (kW-hr/day) |  | 11.5       |
| Electrical Current (A)        |  | 10         |
| Building Supply Rating (A)    |  | 16         |
| Power Lead Length (m)         |  | 2.5        |
| Heat Rejection (BTU/day)      |  | 39240      |
| 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 856*677 mm(W*D), max capacity per shelf:108 kg,238.1 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 |

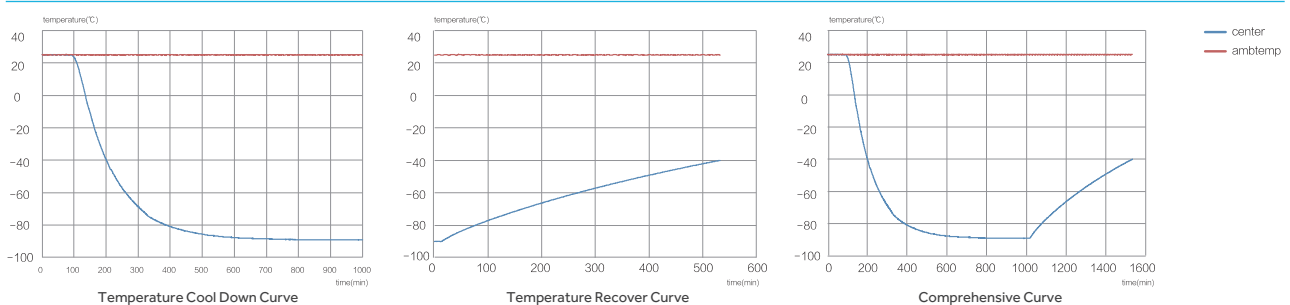
### PERFORMANCE

|   |     |
|---|-----|
| 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                    | 300 |
| 1 Min Door Open Recovery Time (ambient 25 °C running temp -75 °C)mins | 35  |

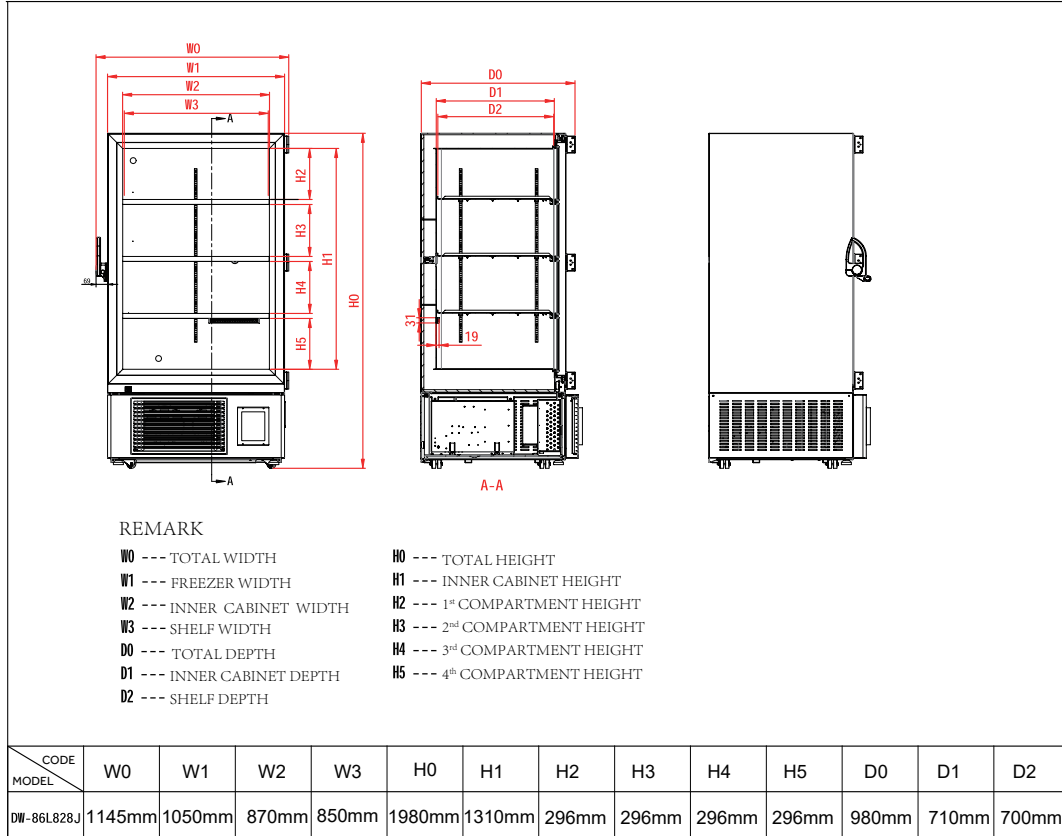
### CERTIFICATE

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### TYPICAL PERFORMANCE CHARACTERISTICS IN 25 °C AMBIENT

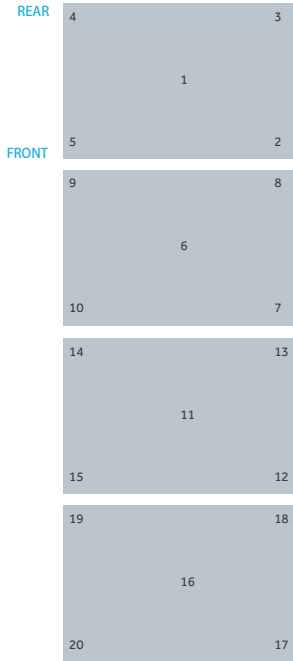


### PRODUCT DIMENSION DRAWINGS

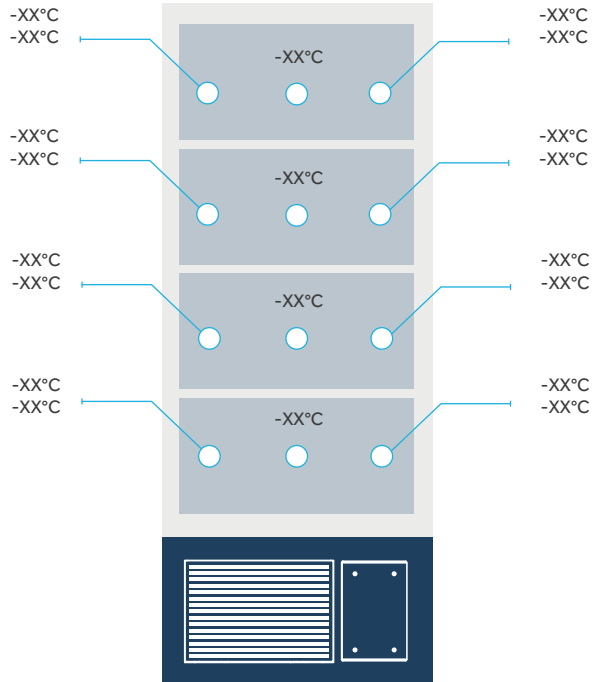


### TYPICAL CABINET TEMPERATURE MAP

Top view of shelves



Front view of shelves



| °C   | 1     | 2     | 3     | 4     | 5     | 6     | 7     | 8     | 9     | 10    |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Max. | -79.5 | -79.9 | -79.9 | -79.7 | -79.5 | -78.5 | -78.2 | -78.3 | -78.5 | -78.2 |
| Min. | -83.4 | -83.3 | -83.5 | -82.6 | -82.5 | -79.8 | -79.5 | -79.5 | -79.7 | -79.5 |
| Avg. | -81.5 | -81.6 | -81.7 | -81.2 | -81   | -79.2 | -78.9 | -78.9 | -79.1 | -78.9 |

| °C   | 11    | 12    | 13    | 14    | 15    | 16    | 17    | 18    | 19    | 20    |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Max. | -80.6 | -80.8 | -80.4 | -80.5 | -80.6 | -78.8 | -79.5 | -79.3 | -79.3 | -79.2 |
| Min. | -81.9 | -82.2 | -83   | -82.3 | -82.5 | -80   | -80.9 | -80.8 | -80.4 | -80.3 |
| Avg. | -81.3 | -81.5 | -81.7 | -81.4 | -81.6 | -79.4 | -80.2 | -80.1 | -79.9 | -79.8 |



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