

-86°C ULT Freezer
DW-86L578ST



GENERAL

| | | |
|----------------------------|----|----------------|
| Storage Capacity(L/Cu.Ft) | | 578/20.4 |
| Temperature Range(°C) | | -40 ~ -86 |
| Noise (dB(A)) | | 53 |
| Net/Gross Weight (kg) | | 325/355 |
| Exterior Dimension (W×D×H) | mm | 895*998*1980 |
| | in | 35.4*39.3*78.0 |
| Interior Dimension (W×D×H) | mm | 620*716*1310 |
| | in | 24.4*28.2*51.6 |

ENVIRONMENTAL & ELECTRICAL DATA

| | |
|------------------------------|--------------|
| Electrical Power (V/HZ) | 208 ~ 230/50 |
| Power(W) | 1400 |
| Power Consumption(kW-hr/day) | 12 |
| Electrical Current (A) | 10 |
| Building Supply Rating (A) | 16 |
| Power Lead Length (m) | 2.5 |
| Heat Rejection (BTU/day) | 40944 |
| Ambient Temperature(°C) | 10 - 32 |

REFRIGERATION CONFIGURATION

| | |
|------------------------------|--|
| Refrigeration System Type | HC |
| Compressor Type/Brand/Number | Hermetic Reciprocating Type/SECOP/2 |
| Compressor Capacity (W) | 1300+1300 |
| Evaporator Type | Copper Tube Evaporator |
| Defrost Method | Manual |
| Refrigerant Charge/Flammable | R600a+R1150+R14 Mix in 1st Stage / the same in 2nd Stage/Flammable |

CONTROLLER/ELECTRICAL SYSTEM FEATURES

| | |
|---------------------------------|--------------------------|
| Controller Level | Top |
| Power Switch | 16A |
| Controller Type | Microprocessor |
| Setpoint Security | Y |
| Controller Sensor | PT100 |
| Remote Alarm Terminals | Remote Alarm Port, RS485 |
| Adjustable High/Low Temp Alarms | Y |
| Auto Voltage Safeguard | Y |

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 596*657 mm(W*D), max capacity per shelf:80kg, 176.5 lbs |
| Casters | Y/4 |
| Exterior Material | Color Coating Steel Plate |
| Interior Material | Color Coating Steel Plate |
| Door Thickness (mm) | 90 |
| Cabinet Thickness (mm) | 90 |
| Inner Door | Four Solid Door |
| Condenser Type | Fin Condenser |
| 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

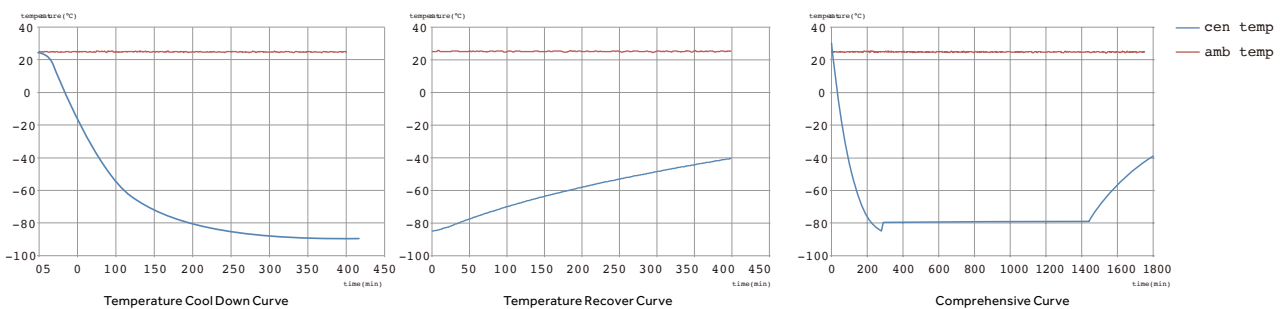
| | |
|---|-----|
| Temperature Uniformity(°C) | ±5 |
| Temperature Accuracy(°C) | 0.1 |
| Cool Down Time (25°C ambient to -80°C) mins | 180 |
| Warm Up Time (25°C ambient -80°C to -50°C) mins | 280 |
| 1 Min Door Open Recovery Time (ambient 25°C,running temp -80°C,recover to -75°C after door opening)mins | 30 |

*Out door and four inner door opening for 1 mins,no -load test condition

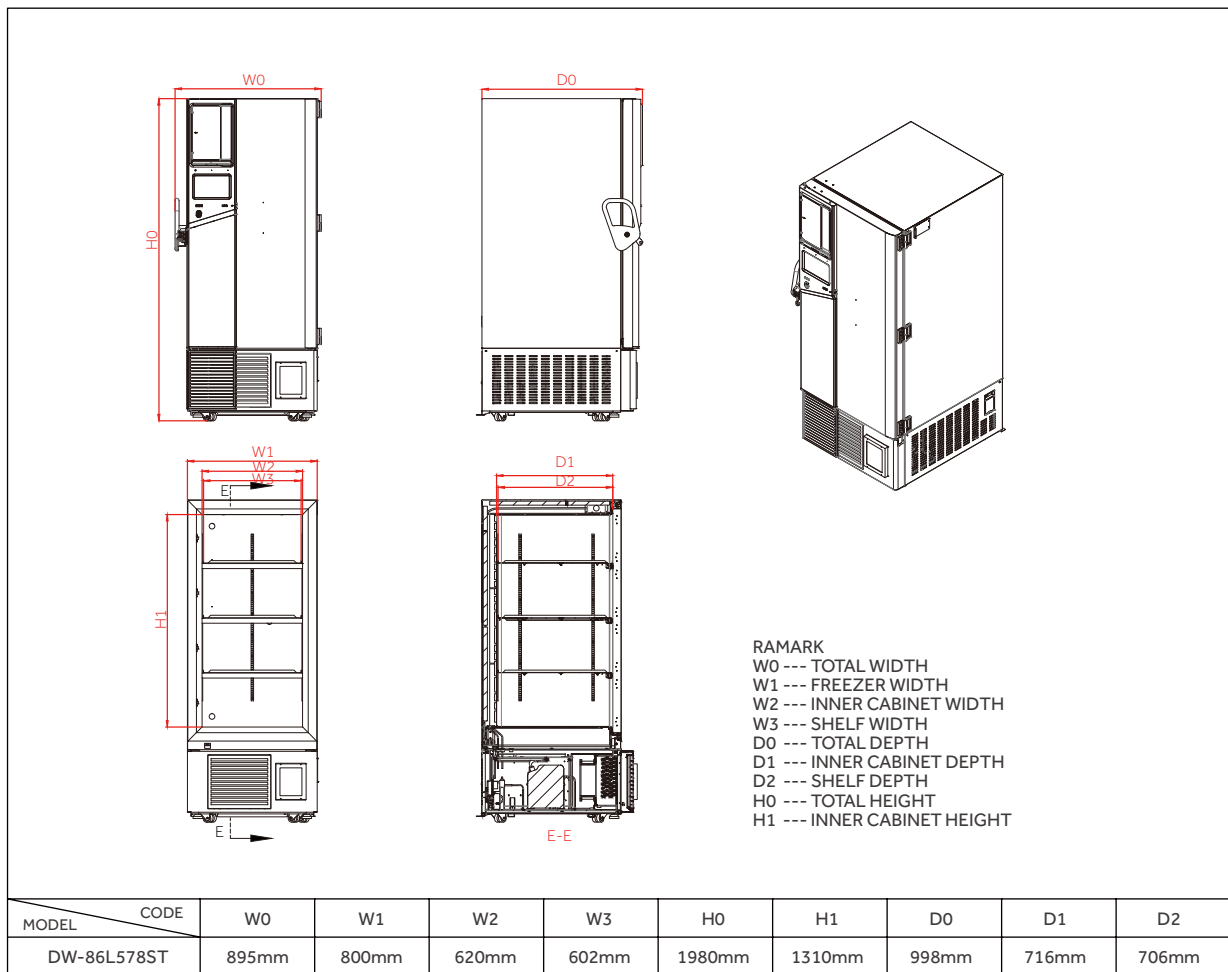
CERTIFICATE

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TYPICAL PERFORMANCE CHARACTERISTICS IN 25°C AMBIENT

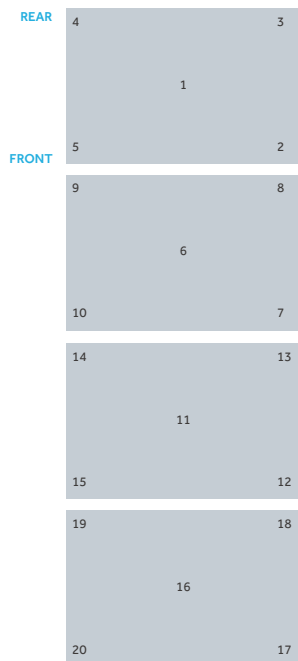


PRODUCT DIMENSION DRAWINGS

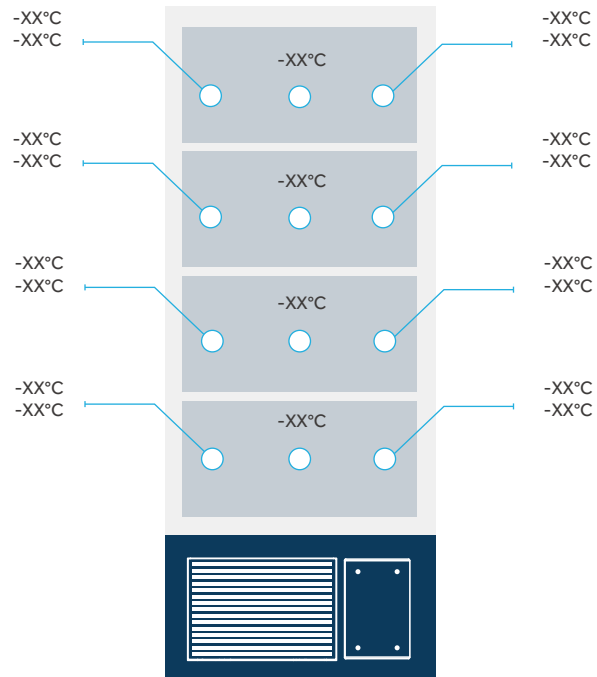


TYPICAL CABINET TEMPERATURE MAP

Top view of shelves



Front view of shelves



| °C | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Max. | -80.0 | -80.5 | -79.7 | -79.7 | -80.2 | -81.3 | -80.9 | -81.7 | -80.6 | -81.0 |
| Min. | -83.6 | -84.2 | -83.5 | -83.2 | -84.1 | -84.4 | -83.8 | -84.9 | -83.1 | -83.6 |
| Avg. | -81.8 | -82.4 | -81.6 | -81.5 | -82.2 | -82.9 | -82.4 | -83.3 | -81.9 | -82.3 |

| °C | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Max. | -81.0 | -80.6 | -80.2 | -80.3 | -81.1 | -78.4 | -79.4 | -79.1 | -78.8 | -78.6 |
| Min. | -83.5 | -83.1 | -82.6 | -82.4 | -83.2 | -81.2 | -81.9 | -81.5 | -81.5 | -81.3 |
| Avg. | -82.3 | -81.8 | -81.4 | -81.4 | -82.2 | -79.8 | -80.7 | -80.3 | -80.2 | -80.0 |

*Ambient temp. 25°C, setting temp. -80°C, cabinet stably running temp. -80°C

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