

## -86°C ULT Freezer DW-86L578J



### GENERAL

Storage Capacity (L/Cu.Ft)	578/20.4	
Temperature Range (°C)	-40~-86	
Noise (dB (A))	50	
Net/Gross Weight (kg)	300/330	
Exterior Dimensions (W*D*H)	mm	903*980*1960
	in	36*38.6*77.2
Interior Dimensions (W*D*H)	mm	620*716*1310
	in	24.4*28.2*51.6

### ENVIRONMENTAL & ELECTRICAL DATA

Electrical Power (V/Hz)	220~240/50	120/60
Power Consumption (kW·h/day)	8.5	8.5
Electrical Current (A)	7.5	12
Building Supply Rating (A)	7.5	12
Power Lead Length (m)	2.6	2.7
Heat Rejection (stable operation) (BTU/day)	25943	27199
Ambient Temperature (°C)	10~32	

### REFRIGERATION CONFIGURATION

Refrigeration System Type	Direct cooling	
Compressor Type/Brand/Number	Hermetic Reciprocating Type/SECOP/2	
Compressor Capacity (W)	610	520
Evaporator Type	Copper Tube Evaporator	
Defrost Method	Manual	
Refrigerant Charge/Flammable	R290 R170/Yes	

### CONTROLLER/ELECTRICAL SYSTEM FEATURES

Controller Level	Top	
Power Switch	15A	20A
Controller Type	Microprocessor	
Setpoint Security	Yes	
Controller Sensor	PT100	
Remote Alarm Terminals	Yes	
Adjustable High/Low Temp Alarms	Yes	

### 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 606*649 mm (W*D), max capacity per shelf: 72kg, 158.7 lbs	
Casters	Y/4	
Exterior Material	Color Coating Cold Plate Steel	
Interior Material	Color Coating Steel Plate	
Door Thickness	90mm	
Cabinet Thickness	90mm	
Inner Door	Four Solid Door	
Condenser Type	Fin Condenser	
Fan Brand	EBM	
Back Up Battery For Alarm Functions	Support high/low temperature, power failure, ajar, sensor failure, high ambient temperature, hot condenser and low battery alarms	

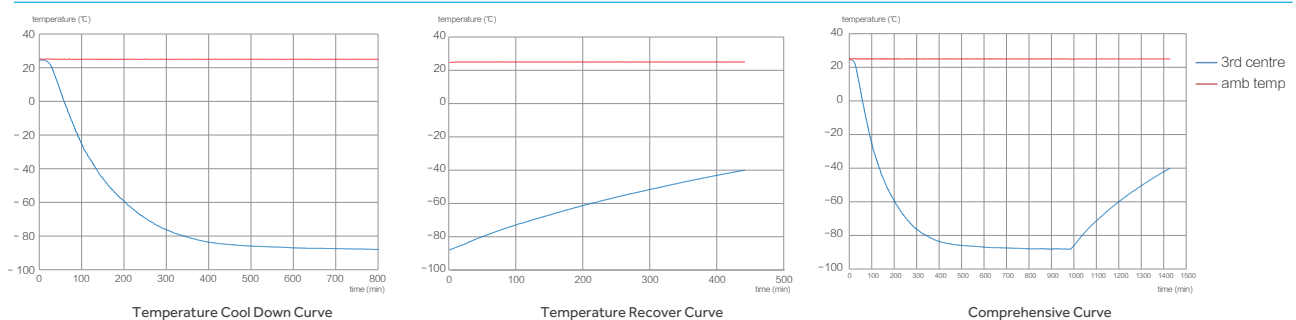
### PERFORMANCE

Temperature Uniformity (°C)	±5
Temperature Accuracy (°C)	1
Cool Down Time (25°C ambient to -80°C) mins	350
Warm Up Time (25°C ambient -80°C to -50°C) mins	260
1 Min Door Open Recovery Time (ambient 25°C running temp -75°C) mins	40

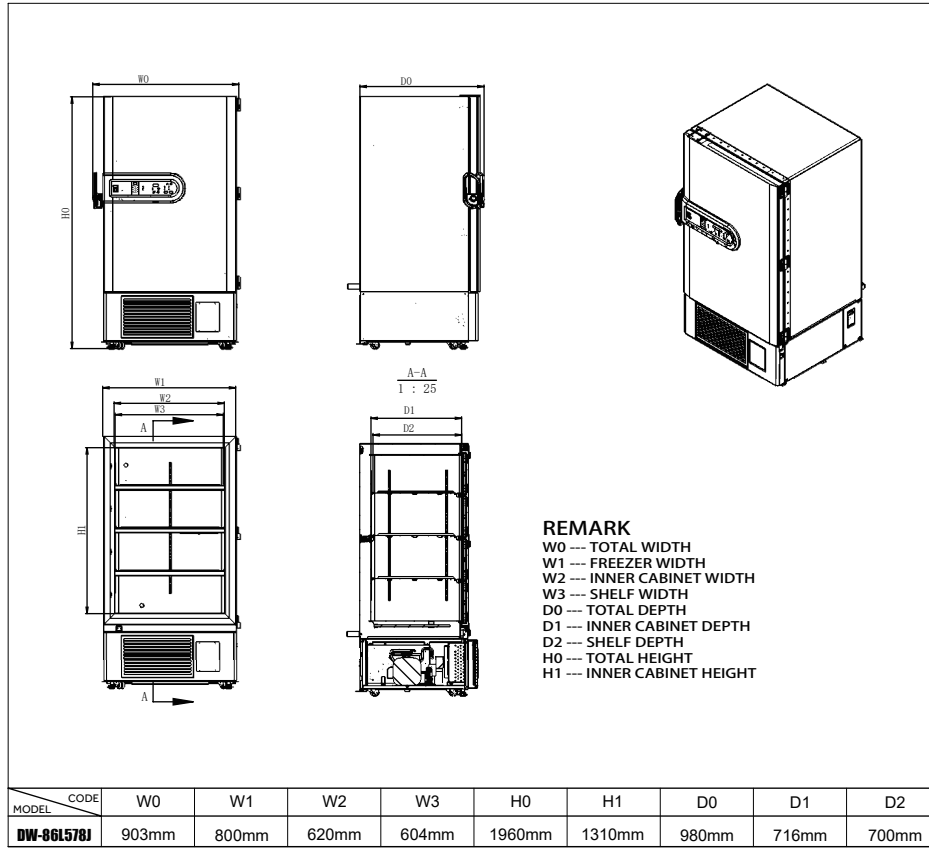
### OTHERS

Certification	CE, Energy Star	UL, ENERGY STAR
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### TYPICAL PERFORMANCE CHARACTERISTICS IN 25 °C AMBIENT

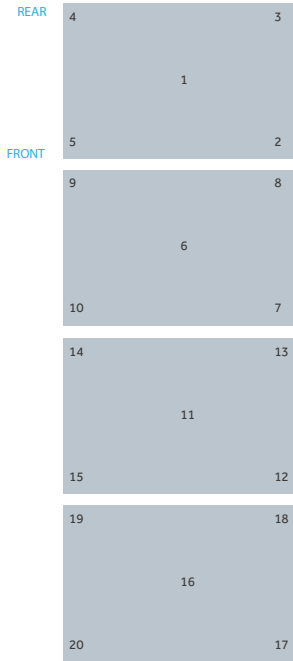


### PRODUCT DIMENSION DRAWINGS

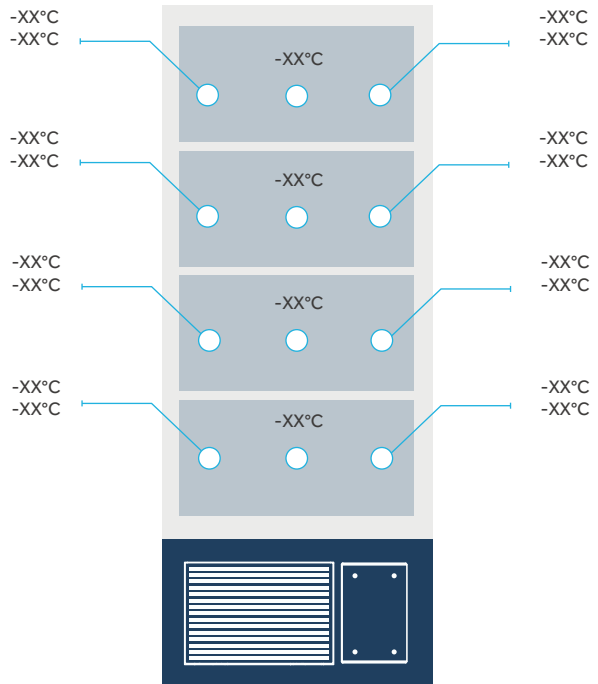


### TYPICAL CABINET TEMPERATURE MAP

Top view of shelves



Front view of shelves



°C	1	2	3	4	5	6	7	8	9	10
Max.	-78.8	-78.3	-78.8	-78.4	-78.7	-80.4	-80.0	-80.6	-80.0	-80.6
Min.	-82.2	-81.6	-81.9	-81.1	-81.8	-83.2	-82.7	-83.4	-82.6	-82.9
Avg.	-80.5	-80.0	-80.4	-79.8	-80.3	-81.8	-81.4	-82.0	-81.3	-81.8

°C	11	12	13	14	15	16	17	18	19	20
Max.	-79.6	-79.0	-79.6	-79.5	-79.3	-77.6	-77.0	-77.5	-77.4	-77.4
Min.	-81.8	-80.9	-81.9	-81.6	-81.1	-78.7	-78.1	-78.5	-78.5	-78.4
Avg.	-80.7	-80.0	-80.8	-80.6	-80.2	-78.2	-77.6	-78.0	-78.0	-77.9

\*Typical freezer data based on internal testing.

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