

## -86°C ULT Freezer DW-86L728ST



### GENERAL

Storage Capacity (L/Cu.Ft)	728/25.7	
Temperature Range (°C)	-40 ~ -86	
Noise (dB(A))	50	53
Net/Gross Weight (kg)	350/385	
Exterior Dimensions (W*D*H)	mm	895*998*1980
	in	35.2*39.3*78.0
Interior Dimensions (W*D*H)	mm	620*716*1310
	in	24.4*28.2*51.6

### ENVIRONMENTAL & ELECTRICAL DATA

Electrical Power (V/Hz)	208 ~ 230/50	120/60
Power Consumption (kW·h/day)	12	12
Electrical Current (A)	10	14
Building Supply Rating (A)	10	14
Power Lead Length (m)	2	2
Heat Rejection (BTU/day)	32811	36167
Ambient Temperature (°C)	10-32	

### REFRIGERATION CONFIGURATION

Refrigeration System Type	HC	
Compressor Type/Brand/Number	Hermetic Reciprocating Type/SECOP/2	
Compressor Capacity (W)	1348	
Evaporator Type	Copper Tube Evaporator	
Defrost Method	Manual	
Refrigerant Charge/Flammable	R600a R1150 R14/Yes	R600a R1150/Yes

### CONTROLLER/ELECTRICAL SYSTEM FEATURES

Controller Level	Top	Top
Power Switch	15A	20A
Controller Type	Microprocessor	Microprocessor
Setpoint Security	Yes	Yes
Controller Sensor	PT100	PT100
Remote Alarm Terminals	Yes	Yes
Adjustable High/Low Temp Alarms	Yes	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 752*650 mm (W*D), max capacity per shelf: 100kg, 220.5 lbs	
Casters	Y/4	
Exterior Material	Color Coating Cold Plate Steel	
Interior Material	Color Coating Steel Plate	
Door Thickness (mm)	90	
Cabinet Thickness (mm)	90	
Inner Door	Four Solid Door	
Condenser Type	Microchannel	
Fan Brand	EBM	SUNON
Back Up Battery For Alarm Functions	Support high/low temperature, power failure, door ajar, sensor failure, high ambient temperature, hot condenser and low battery alarms, abnormal voltage alarm, power board failure alarm	

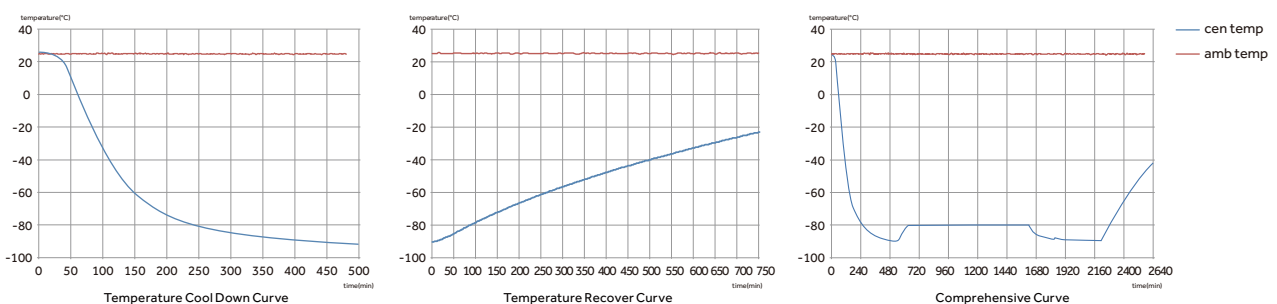
### PERFORMANCE

Temperature Uniformity (°C)	±5	
Temperature Accuracy (°C)	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 -75°C) mins	30	40

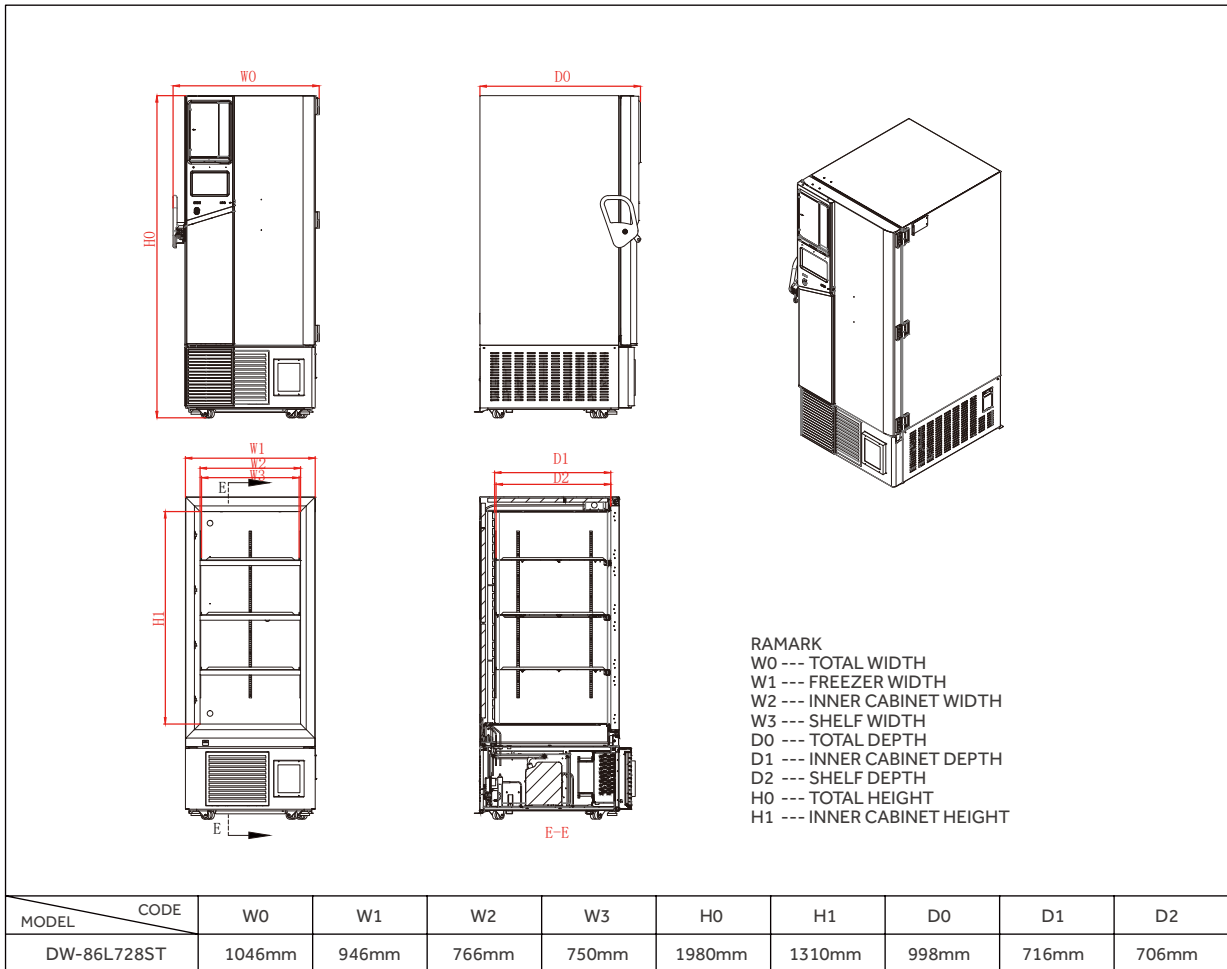
### OTHERS

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

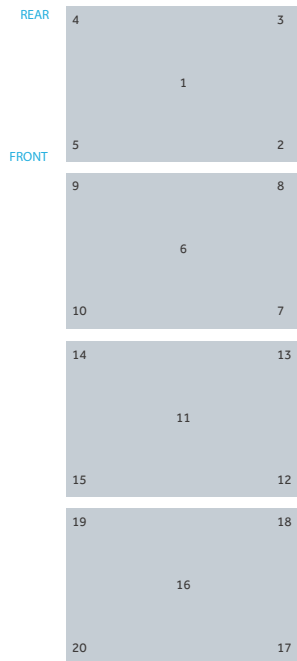


PRODUCT DIMENSION DRAWINGS

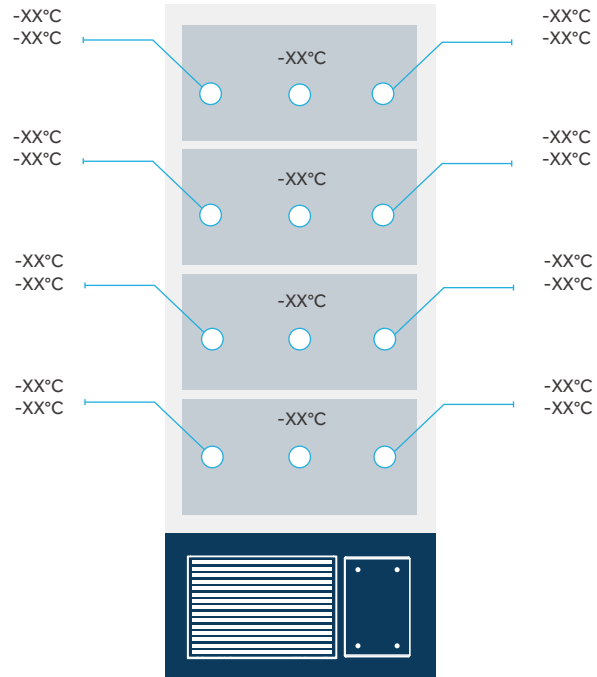


### TYPICAL CABINET TEMPERATURE MAP

Top view of shelves



Front view of shelves



°C	1	2	3	4	5	6	7	8	9	10
Max.	-78.3	-78.1	-78.3	-77.7	-78.8	-80.6	-79.2	-80.2	-79.5	-80.5
Min.	-80.5	-80.2	-80.3	-80.4	-80.7	-82.0	-80.6	-82.2	-81.3	-82.2
Avg.	-79.7	-79.4	-79.4	-79.5	-79.9	-81.3	-79.9	-81.2	-80.4	-81.3

°C	11	12	13	14	15	16	17	18	19	20
Max.	-79.3	-79.4	-79.3	-79.8	-79.1	-78.1	-77.0	-77.7	-77.7	-77.6
Min.	-80.3	-80.2	-80.4	-81.3	-80.4	-79.8	-78.0	-79.1	-79.4	-79.7
Avg.	-79.7	-79.8	-79.8	-80.5	-79.4	-78.8	-77.5	-78.2	-78.4	-78.5

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

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