

**-86°C ULT Freezer**  
**DW-86L728ST**



**GENERAL**

Storage Capacity(L/Cu.Ft )		728/25.7
Temperature Range(°C)		-40 ~ -86
Noise (dB(A))		50
Net/Gross Weight (kg)		350/385
Exterior Dimension (W×D×H)	mm	1046*998*1980
	in	41.2*39.3*78.0
Interior Dimension (W×D×H)	mm	766*716*1310
	in	30.2*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 752*650 mm(W*D), max capacity per shelf:100kg, 220.6 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	Microchannel
Fan Brand	SUNON
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

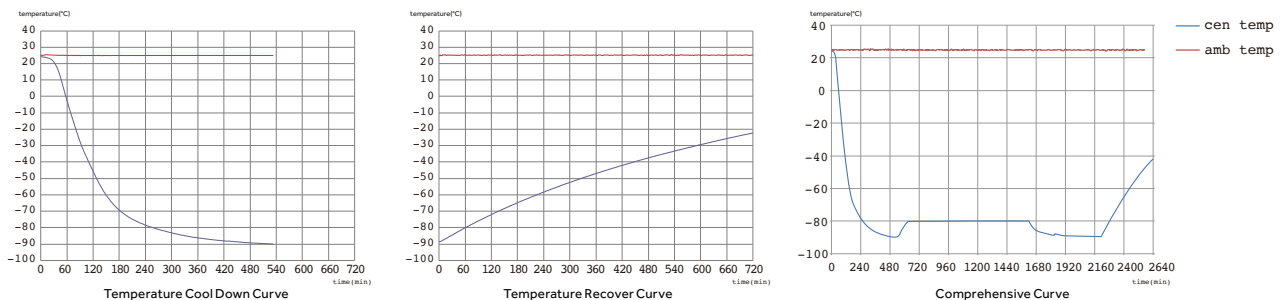
Temperature Uniformity(°C)	±5
Temperature Accuracy(°C)	0.1
Cool Down Time (25°C ambient to -80°C) mins	250
Warm Up Time (25°C ambient -80°C to -50°C) mins	310
1 Min Door Open Recovery Time (ambient 25°C,running temp -80°C,recover to -75°C after door opening)mins	30

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

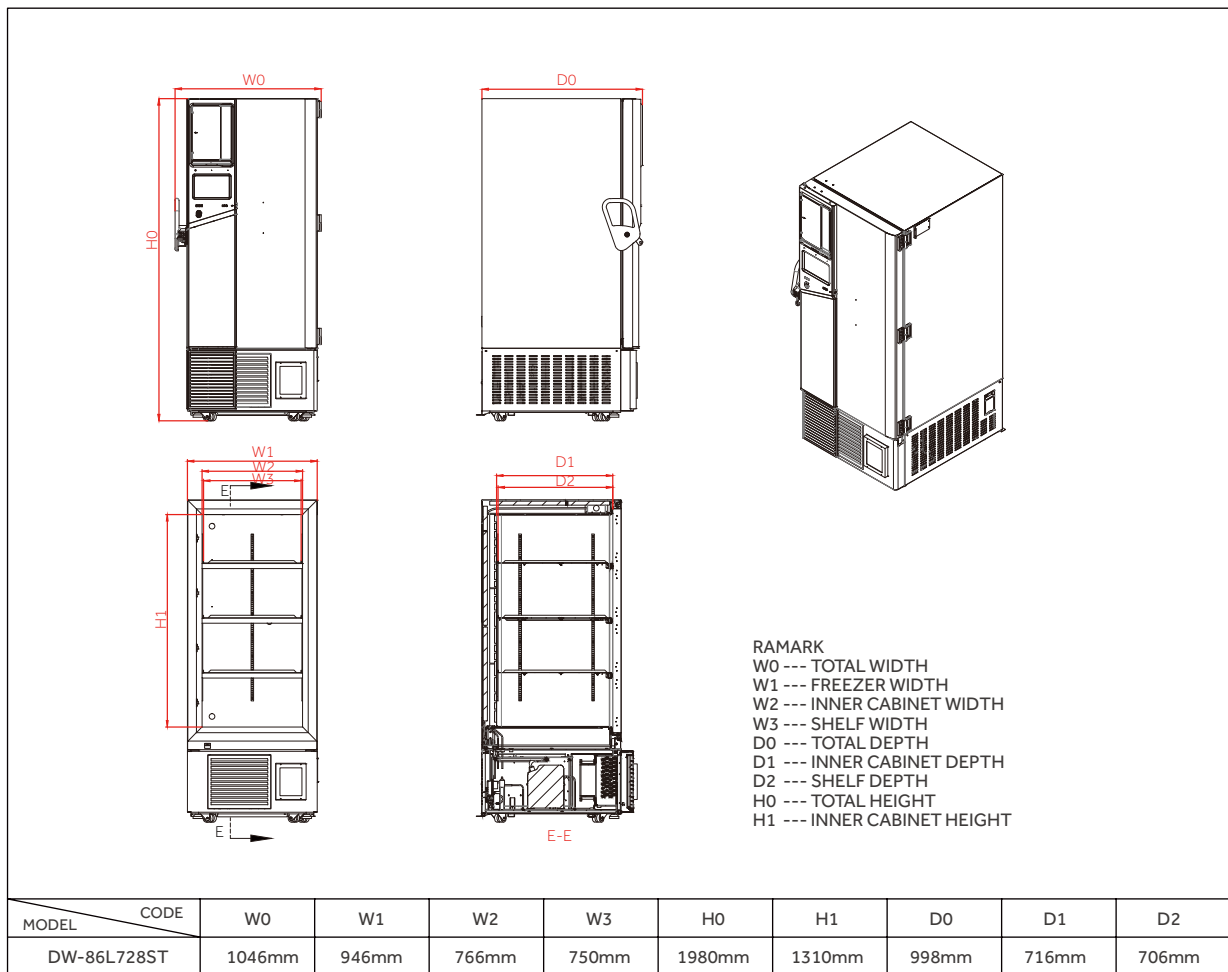
CERTIFICATE

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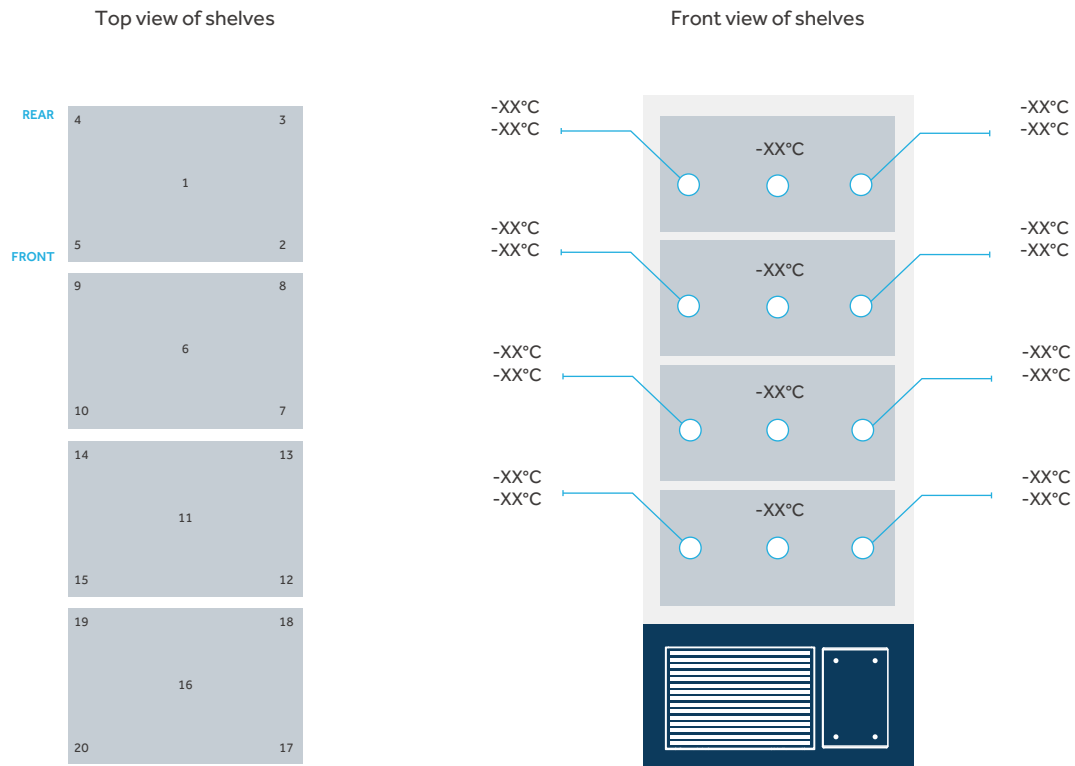
TYPICAL PERFORMANCE CHARACTERISTICS IN 25°C AMBIENT



PRODUCT DIMENSION DRAWINGS



### TYPICAL CABINET TEMPERATURE MAP



°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	-76.8	-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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