



-86 °C ULT Freezer

ULT-86-4H



GENERAL

Storage Capacity(L/Cu.Ft)		100/3.5
Temperature Range(°C)		-40 ~ -86
Noise (dB(A))		49
Net/Gross Weight (kg)		138/160
Exterior Dimensions(W*D*H)	mm	769*825*1120
	in	30.3*32.5*44.1
Interior Dimensions (W*D*H)	mm	470*450*480
	in	18.5*17.7*18.9

ENVIRONMENTAL & ELECTRICAL DATA

Electrical Power (V/HZ)	220 ~ 240/50/60	115/60
Power (W)	650	650
Power Consumption (kW-hr/day)	10	
Electrical Current (A)	7.5	12
Building Supply Rating (A)	16	
Power Lead Length (m)	2.5	
Heat Rejection (btu/hr)	34121	
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)	700 730
Evaporator Type	Cold Wall With Enhanced Heat Transfer Treatment
Defrost Method	Manual
Refrigerant Charge/Flammable	R404 in 1st Stage / R290+R508 Mix in 2nd Stage

CONTROLLER/ELECTRICAL SYSTEM FEATURES

Controller Level	Top
Power Switch	On-Off with Circuit Breaker
Controller Type	Microprocessor Control, Bright LED Display
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	CFC Free Foaming Agent
Exterior Door Seal	One Seal On the Outside Door Seal Strip
Interior Door Seal	N
Shelves/Capacity/Dims/Material	/
Casters	All-direction caster with fixing stand
Exterior Material	Color Coating Steel Plate
Interior Material	Color Coating Electric Zinc Steel Plate
Door Thickness	80mm
Cabinet Thickness	130mm
Inner Door	Single 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, sensor failure, high ambient temperature, hot condenser and low battery alarms

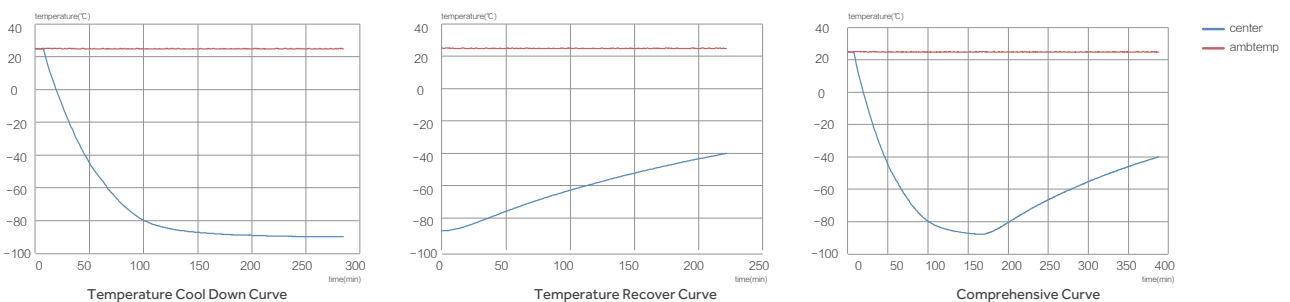
PERFORMANCE

Temperature Uniformity(°C)	4
Temperature Accuracy(°C)	1
Cool Down Time (25 °C ambient to -80 °C) mins	150
Warm Up Time (25 °C ambient -80 °C to -50 °C) mins	130
1 Min Door Open Recovery Time (ambient 25 °C running temp -75 °C)mins	20

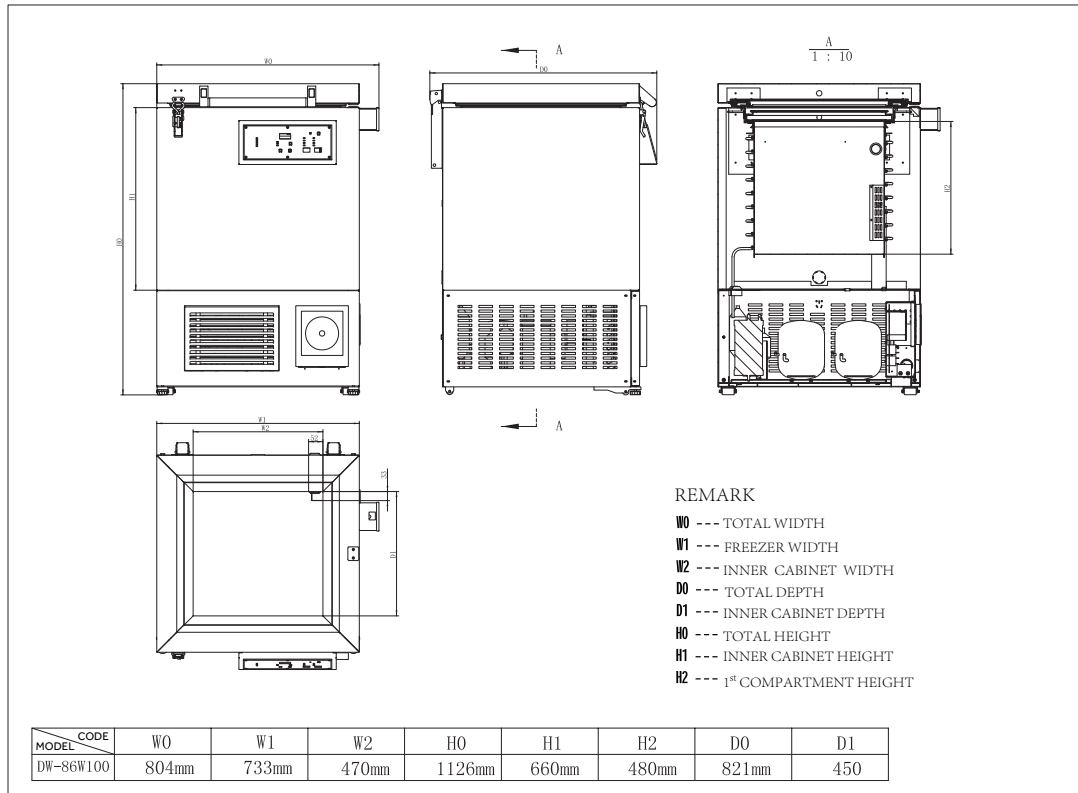
CERTIFICATE

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TYPICAL PERFORMANCE CHARACTERISTICS IN 25 °C AMBIENT

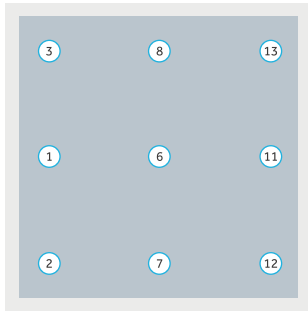


PRODUCT DIMENSION DRAWINGS

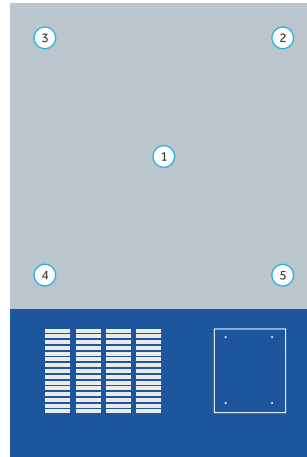


TYPICAL CABINET TEMPERATURE MAP

Top view of shelves



Left view of shelves



°C	1	2	3	4	5	6	7	8	9	10
Max.	-78.2	-77.6	-77.6	-78.9	-78.7	-78.4	-77.8	-77.9	-78.7	-79
Min.	-80.2	-79.1	-79	-80.2	-80.3	-79.7	-79	-79.1	-80	-80
Avg.	-79.2	-78.4	-78.3	-79.6	-79.5	-79.1	-78.4	-78.5	-79.4	-79.5

°C	11	12	13	14	15
Max.	-78	-77.6	-77.2	-78.9	-79.3
Min.	-80	-79.2	-78.7	-80.6	-80.9
Avg.	-79	-78.4	-78	-79.8	-80.1

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Note: If slight difference occurs between pictures and actual products, please refer to actual products. Our company reserves the right of final interpretation to this brochure and please contact with us for further information you might need.