



-86 °C ULT Freezer

ULT-86-21HA (220V60HZ)

ULT-86-21H (115V60HZ)



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	895*980*1960	
	in	35.4*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	208 ~ 230/60	115/60
Power (W)	750	1000	1000
Power Consumption (kW-hr/day)	8.5	8.5	8.5
Electrical Current (A)	9	9	18
Building Supply Rating (A)	16	16	20
Power Lead Length (m)	2.5	2.5	2.5
Heat Rejection (btu/hr)	29003	29003	29003
Ambient Temperature	10 °C ~ 32 °C	10 °C ~ 32 °C	10 °C ~ 32 °C

REFRIGERATION CONFIGURATION

Refrigeration System Type	Direct cooling
Compressor Type/Brand/Number	Hermetic Reciprocating Type/SECOP/2
Compressor Capacity(W)	950
Evaporator Type	Cold Wall With Enhanced Heat Transfer Treatment
Defrost Method	Manual
Refrigerant Charge/Flammable	R290 in 1st Stage / R170 in 2nd Stage / Flammable

CONTROLLER/ELECTRICAL SYSTEM FEATURES

Controller Level	Top
Power Switch	On-Off with Circuit Breaker
Controller Type	Microprocessor Control, Bright LED Display, USB Data Export
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	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 dimensionmm 604*677 mm(W*D), max capacity per shelf:80 kg,176.4 lbs
Casters	All-direction caster with fixing stand
Exterior Material	Color Coating Steel Plate
Interior Material	Color Coating Steel Plate
Door Thickness	90mm
Cabinet Thickness	90mm
Inner Door	Four 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, door open, sensor failure, high ambient temperature, hot condenser and low battery alarms

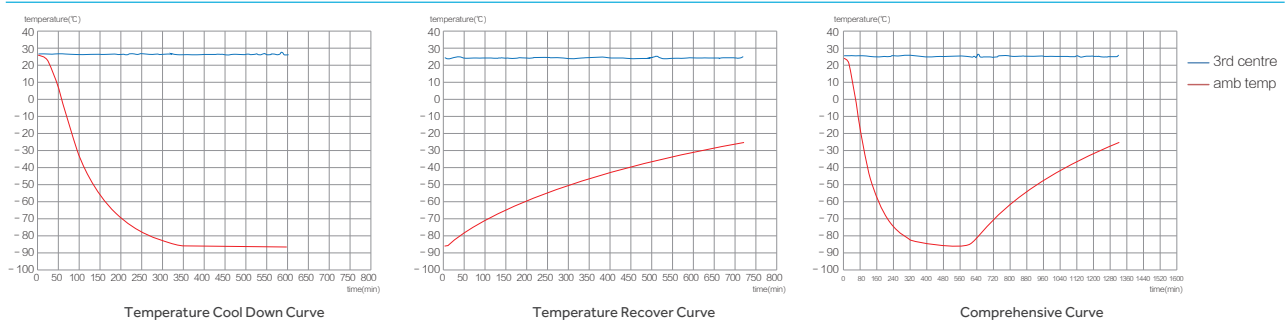
PERFORMANCE

Temperature Uniformity(°C)	6
Temperature Accuracy(°C)	1
Cool Down Time (25 °C ambient to -80 °C) mins	270
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	30

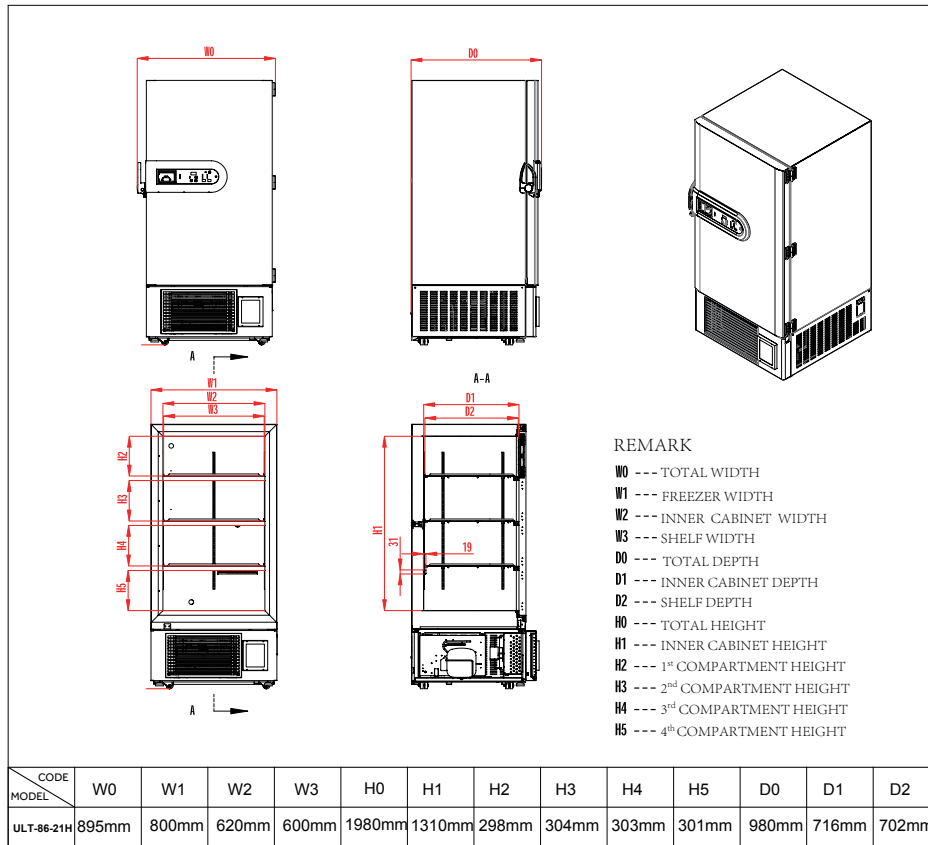
CERTIFICATE

CE

TYPICAL PERFORMANCE CHARACTERISTICS IN 25 °C AMBIENT

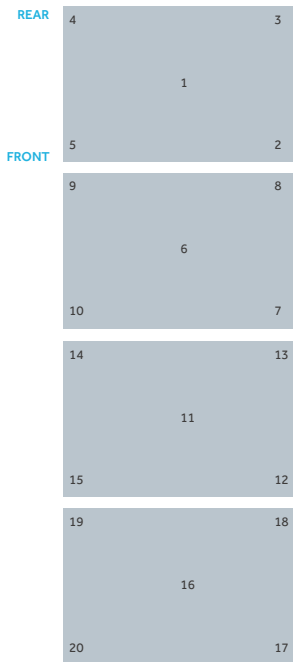


PRODUCT DIMENSION DRAWINGS

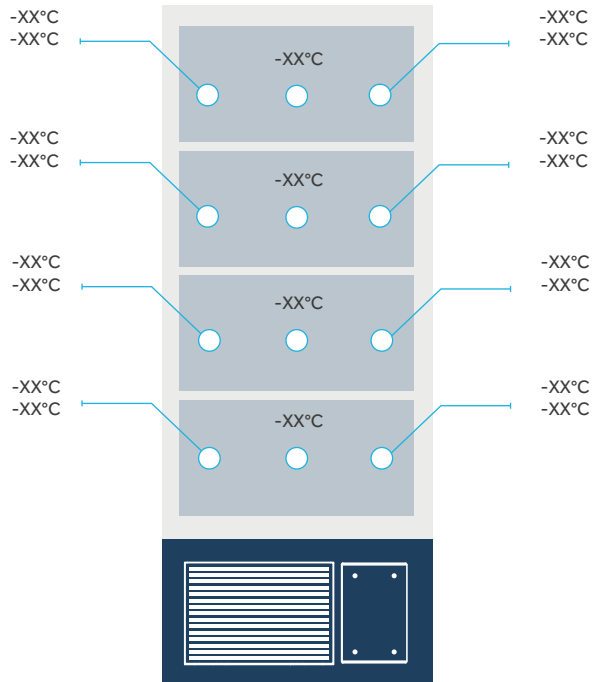


TYPICAL CABINET TEMPERATURE MAP

Top view of shelves



Front view of shelves



°C	1	2	3	4	5	6	7	8	9	10
Max.	-80.4	-81	-81	-81.4	-81.8	-81.2	-81.4	-82	-82.2	-81.4
Min.	-83.8	-83.7	-83.7	-84.1	-84.1	-83.3	-83.6	-84.5	-84.6	-83.5
Avg.	-82.1	-82.4	-82.4	-82.8	-83	-82.3	-82.5	-83.3	-83.4	-82.5

°C	11	12	13	14	15	16	17	18	19	20
Max.	-81.2	-81.2	-81.7	-81.8	-81.4	-78.5	-78.2	-79.1	-78.7	-78
Min.	-83	-83.1	-83.9	-83.9	-83.3	-80.3	-80	-81.1	-80.6	-79.9
Avg.	-82.1	-82.2	-82.8	-82.9	-82.4	-79.4	-79.1	-80.1	-79.7	-79

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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.