

-86°C ULT Freezer DW-86L486E



GENERAL

Storage Capacity (L/Cu.Ft)		486/17.1
Temperature Range(°C)		-40 ~ -86
Noise (dB(A))		49
Net/Gross Weight (kg)		290/310
Exterior Dimensions (W*D*H)	mm	953*900*1980
	in	37.5*35.4*78.0
Interior Dimensions (W*D*H)	mm	590*630*1310
	in	23.3*24.8*51.6

ENVIRONMENTAL & ELECTRICAL DATA

Electrical Power (V/HZ)		220 ~ 240/50
Power Consumption (kW-hr/day)		13
Electrical Current (A)		10
Building Supply Rating (A)		10
Power Lead Length (m)		2.6
Heat Rejection (BTU/day)		30879
Ambient Temperature		10-32

REFRIGERATION CONFIGURATION

Refrigeration System Type		Direct cooling
Compressor Type/Brand/Number		Hermetic Reciprocating Type/SECOP/2
Compressor Capacity (W)		891
Evaporator Type		Copper Tube Evaporator
Defrost Method		Manual
Refrigerant Charge/Flammable		R290 R170/YES

CONTROLLER/ELECTRICAL SYSTEM FEATURES

Controller Level	Top
Power Switch	15A
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	Two 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 576*597 mm (W*D), max capacity per shelf:58kg, 127.9 lbs
Casters	Y/4
Exterior Material	Color Coating Cold Plate Steel
Interior Material	Color Coating Electric Zinc Steel Plate
Door Thickness	90
Cabinet Thickness	130
Inner Door	Four Solid Door
Condenser Type	Fin Condenser
Fan Brand	EBM
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, power board failure alarm

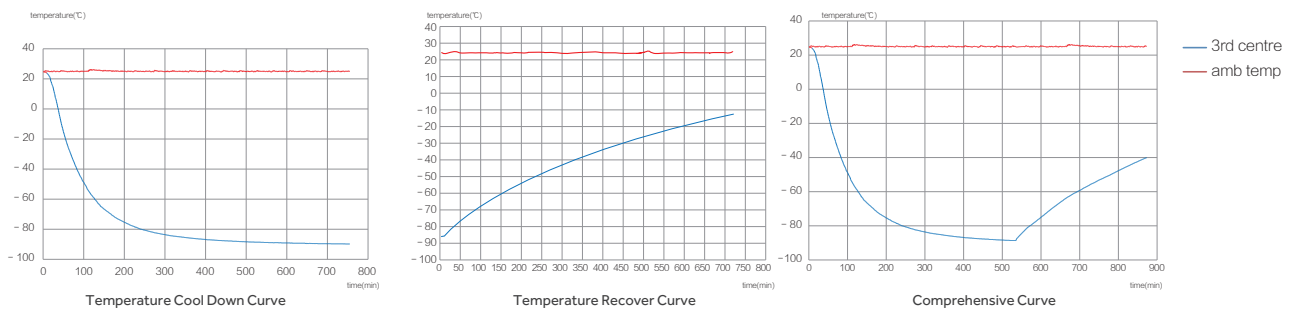
PERFORMANCE

Temperature Uniformity (°C)	±5
Temperature Accuracy (°C)	0.1
Cool Down Time (25°C ambient to -80°C) mins	275
Warm Up Time (25°C ambient -80°C to -50°C) mins	210
1 Min Door Open Recovery Time (ambient 25°C running temp -75°C)mins	40

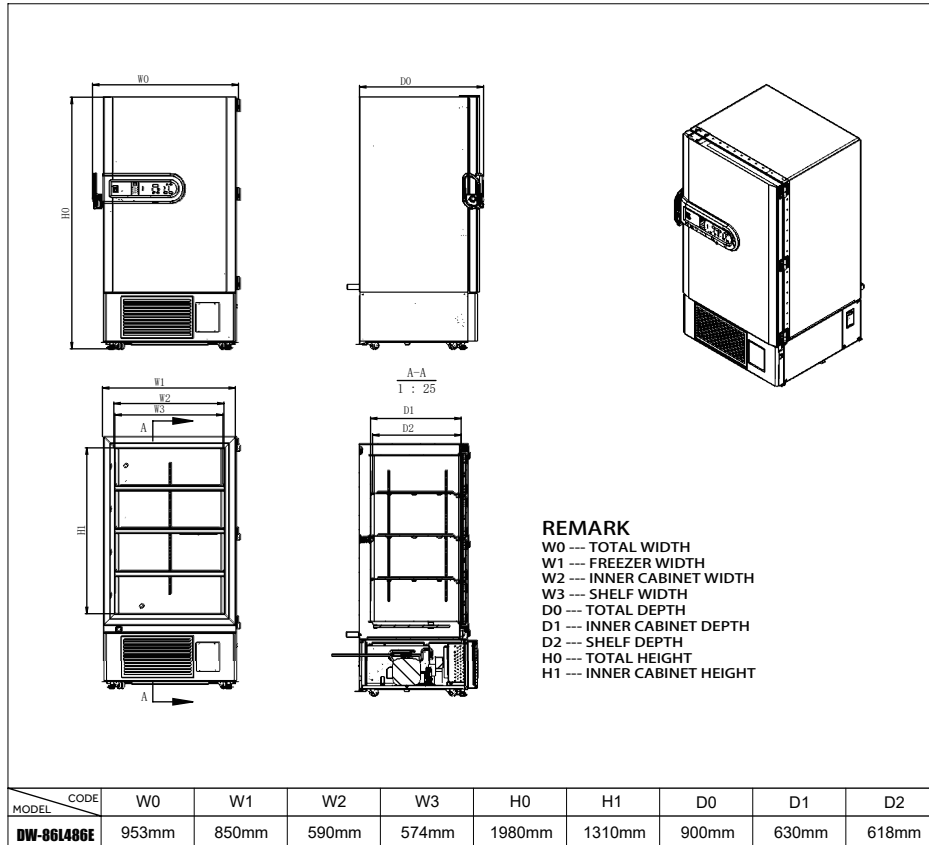
CERTIFICATE

CE

TYPICAL PERFORMANCE CHARACTERISTICS IN 25 °C AMBIENT

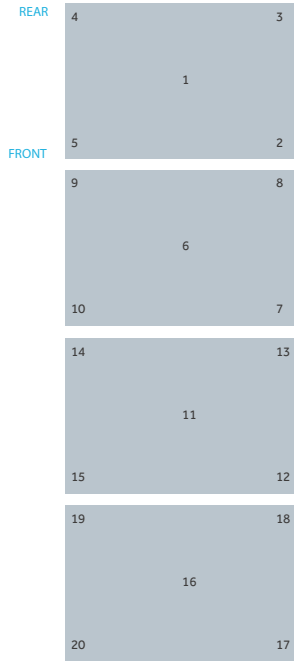


PRODUCT DIMENSION DRAWINGS

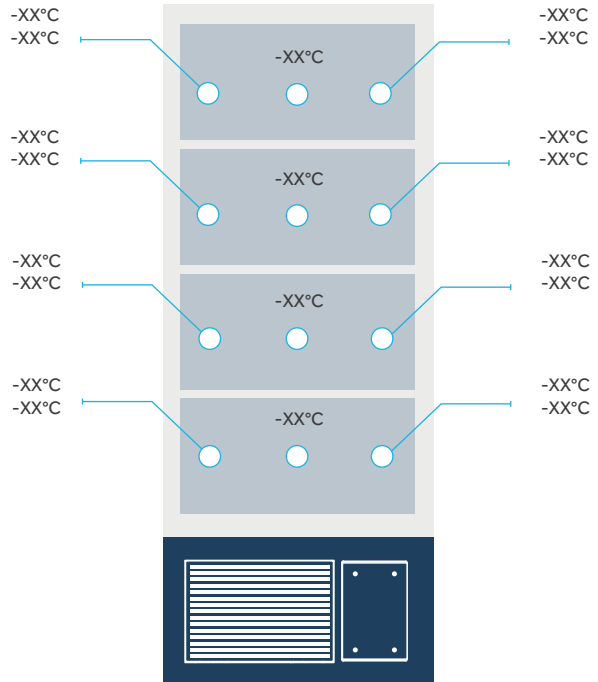


TYPICAL CABINET TEMPERATURE MAP

Top view of shelves



Front view of shelves



°C	1	2	3	4	5	6	7	8	9	10
Max.	-80.4	-81.0	-81.4	-81.8	-81.0	-81.2	-81.6	-82.0	-82.2	-81.4
Min.	-83.8	-83.7	-83.9	-83.7	-83.7	-83.3	-83.6	-83.5	83.6	-83.6
Avg.	-82.1	-82.4	-82.7	-82.8	-82.4	-82.3	-82.6	-82.8	0.7	-82.5

°C	11	12	13	14	15	16	17	18	19	20
Max.	-81.4	-81.2	-81.8	-81.8	-81.4	-78.7	-78.3	-79.2	-78.9	-78.1
Min.	-83.0	-83.1	-83.9	-83.9	-83.3	-80.3	-80.0	-81.1	-80.6	-79.9
Avg.	-82.2	-82.2	-82.9	-82.9	-82.4	-79.5	-79.2	-80.2	-79.8	-79.0

*Typical freezer data based on internal testing.

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