Haier Biomedical

Intelligent Protection of Life Science

-86°C ULT Freezer

DW-86L578J

GENERAL

Storage Capacity(L/Cu.Ft)		578/20.4
Temperature Range(℃)		-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
Power (W)	750
Power Consumption (kW-hr/day)	8.5
Electrical Current (A)	6
Building Supply Rating (A)	16
Power Lead Length（m）	2.5
Heat Rejection (BTU/day)	29003
Ambient Temperature	10℃-32℃

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 / R290+R170 Mix in 2nd Stage / Flammable

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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

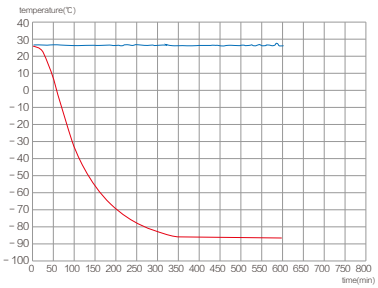
PERFORMANCE

Temperature Uniformity(℃)	6
Temperature Accuracy(℃)	1
Cool Down Time (25℃ ambient to -80℃) mins	270
Warm Up Time (25℃ ambient -80℃ to -50℃) mins	260
1 Min Door Open Recovery Time (ambient 25℃ running temp -75℃)mins	30

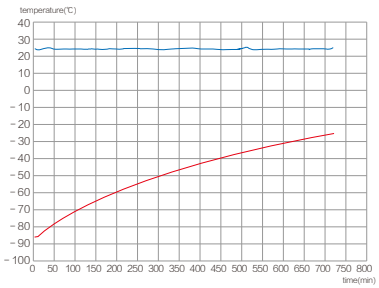
CERTIFICATE

CE

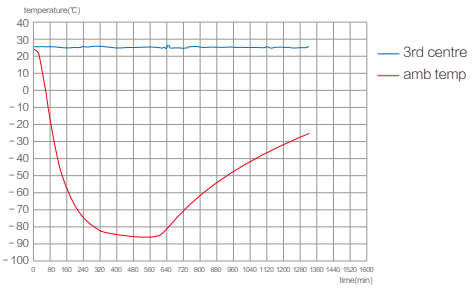
TYPICAL PERFORMANCE CHARACTERISTICS IN 25 °C AMBIENT



Temperature Cool Down Curve



Temperature Recover Curve



Comprehensive Curve

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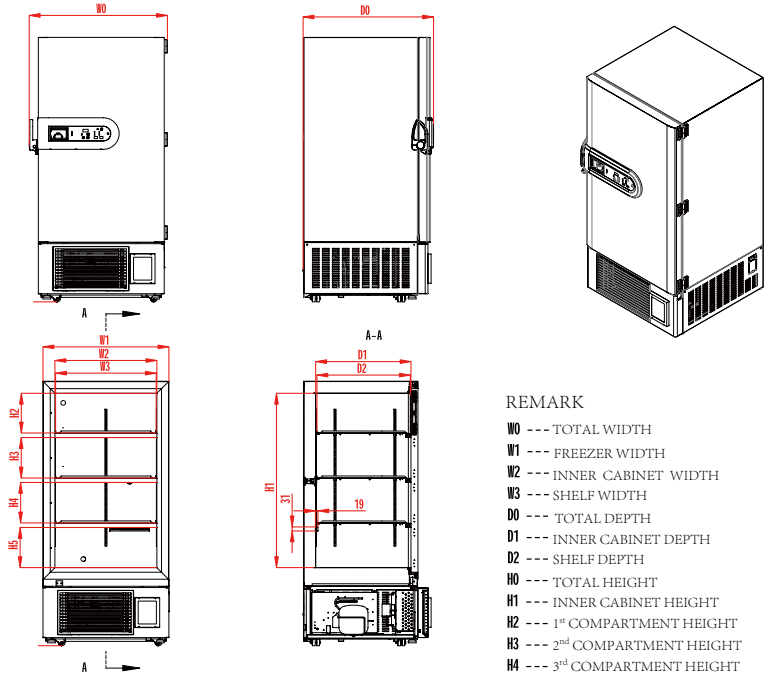
PRODUCT DIMENSION DRAWINGS



REMARK

W0 --- TOTAL WIDTH
W1 --- FREEZER WIDTH
W2 --- INNER CABINET WIDTH
W3 --- SHELF WIDTH
D0 --- TOTAL DEPTH
D1 --- INNER CABINET DEPTH
D2 --- SHELF DEPTH
H0 --- TOTAL HEIGHT
H1 --- INNER CABINET HEIGHT
H2 --- 1st COMPARTMENT HEIGHT
H3 --- 2nd COMPARTMENT HEIGHT
H4 --- 3rd COMPARTMENT HEIGHT
H5 --- 4th COMPARTMENT HEIGHT

CODE / MODEL	W0	W1	W2	W3	H0	H1	H2	H3	H4	H5	D0	D1	D2
DW-86L578J	895mm	800mm	620mm	600mm	1980mm	1310mm	298mm	304mm	303mm	301mm	980mm	716mm	702mm

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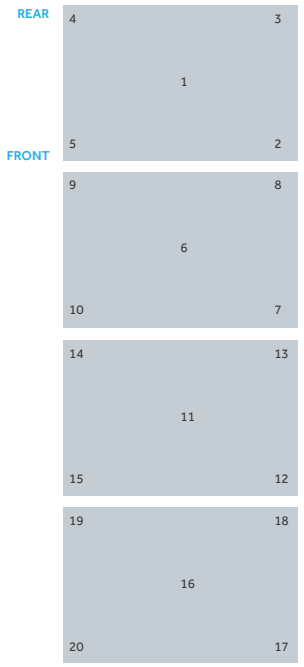
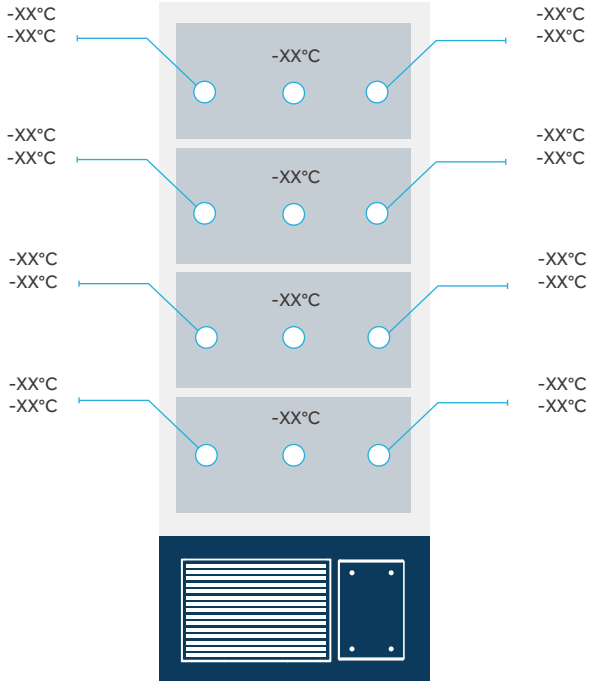
TYPICAL CABINET TEMPERATURE MAP

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

Ihr Fachhändler:
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Axon Labortechnik

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