Haier Biomedical

Intelligent Protection of Life Science

-86 °C ULT Freezer

DW-86L729BPT

GENERAL

Storage Capacity(L/Cu.Ft)		729/25.7
Temperature Range(°C)		-40～-86
Noise (dB(A))		43.5
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)	100～230/50/60
Power(W)	1100
Power Consumption(kW-hr/day)	8
Electrical Current (A)	6
Building Supply Rating (A)	16
Power Lead Length (m)	2.5
Heat Rejection (BTU/day)	27296
Ambient Temperature(°C)	10 - 32

REFRIGERATION CONFIGURATION

Refrigeration System Type	HC
Compressor Type/Brand/Number	Hermetic Reciprocating Type / SECOP/ 2
Compressor Capacity (W)	950+950
Evaporator Type	Copper Tube Evaporator
Defrost Method	Manual
Refrigerant Charge/Flammable	R290 in 1st Stage / R170 in 2nd Stage/Flammable

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Specifications
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CONTROLLER/ELECTRICAL SYSTEM FEATURES

Controller Level	Top
Power Switch	16A
Controller Type	Microprocessor,touch screen
Setpoint Security	Yes
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 (VIP+CFC Free Foaming Agent)
Cabinet Thickness (mm)	90 (VIP+CFC Free Foaming Agent)
Inner Door	Four Solid Door
Condenser Type	Fin condenser
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

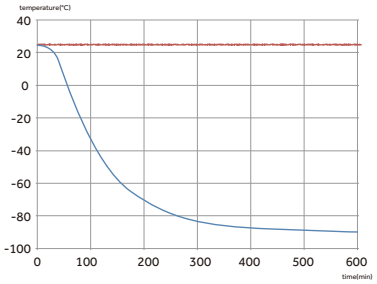
PERFORMANCE

Temperature Uniformity (°C)	±3
Temperature Accuracy (°C)	0.1
Pull Down Time (25°C ambient to -80°C) mins	280
Warm Up Time (25°C ambient -80°C to -50°C) mins	280
1 Min Door Open Recovery Time (ambient 25°C running temp -75°C)mins	40

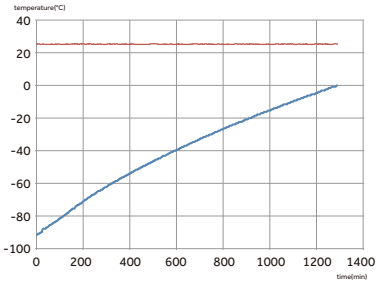
CERTIFICATE

CE

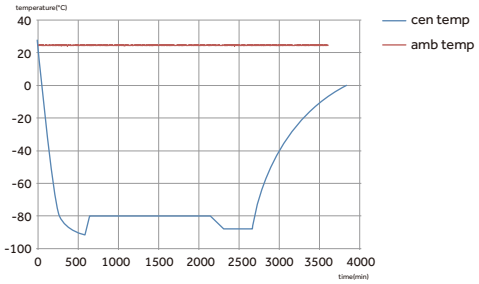
TYPICAL PERFORMANCE CHARACTERISTICS IN 25°C AMBIENT



Temperature Cool Down Curve



Temperature Recover Curve



Comprehensive Curve

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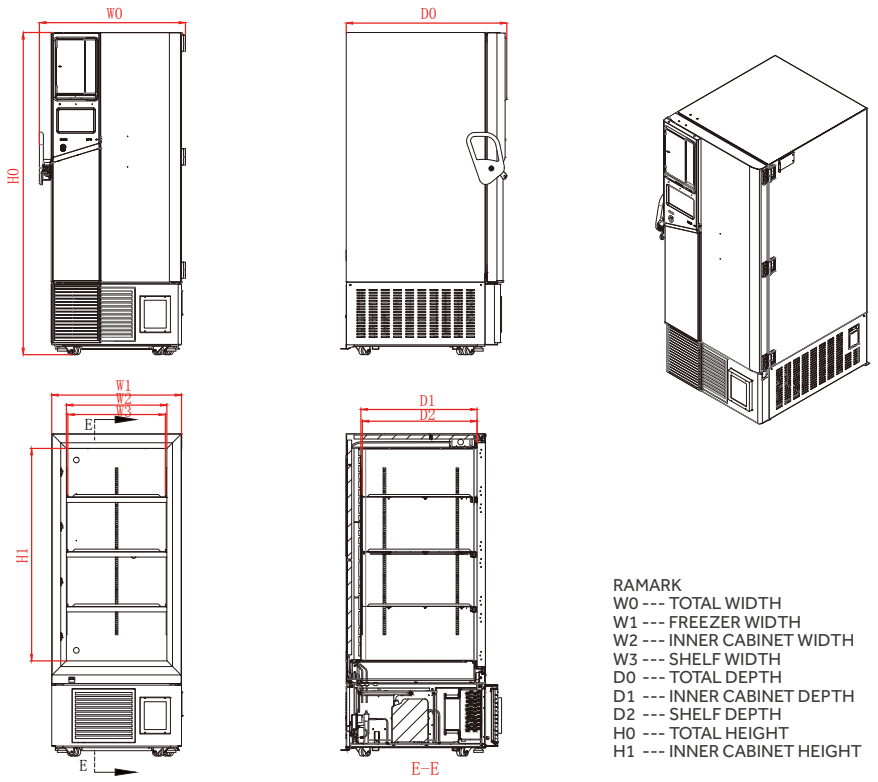
PRODUCT DIMENSION DRAWINGS



RAMARK
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

MODEL \ CODE	W0	W1	W2	W3	H0	H1	D0	D1	D2
DW-86L729BPT	1046mm	946mm	766mm	750mm	1980mm	1310mm	998mm	716mm	706mm

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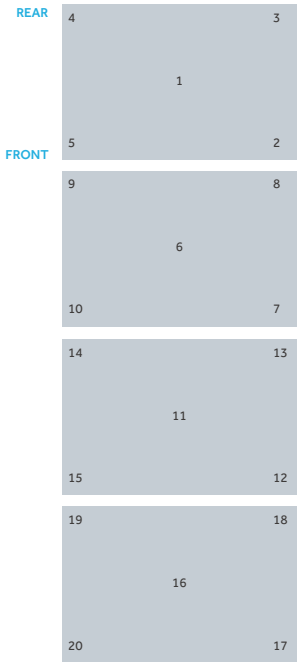
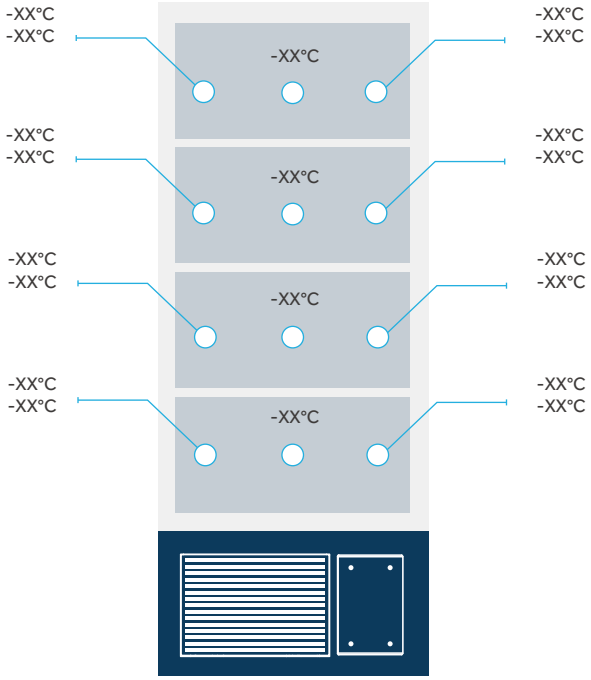
TYPICAL CABINET TEMPERATURE MAP

Top view of shelves



Front view of shelves



°C	1	2	3	4	5	6	7	8	9	10
Max.	-78.5	-79.0	-77.6	-78.4	-79.6	-80.2	-79.9	-80.0	-80.4	-80.4
Min.	-80.4	-81.0	-79.8	-80.6	-81.3	-82.0	-81.6	-81.8	-82.3	-82.1
Avg.	-79.3	-79.9	-78.7	-79.5	-80.3	-81.0	-80.6	-80.8	-81.2	-81.1

°C	11	12	13	14	15	16	17	18	19	20
Max.	-81.2	-80.9	-81.1	-81.0	-81.0	-80.1	-79.8	-80.0	-80.3	-79.6
Min.	-82.8	-82.5	-82.9	-82.9	-82.7	-82.1	-81.6	-82.3	-82.6	-81.7
Avg.	-81.8	-81.5	-81.8	-81.7	-81.6	-80.9	-80.5	-80.9	-81.3	-80.5

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