

Haier Biomedical

Intelligent Protection of Life Science

-150°C Cryogenic Chest Freezer

DW-150W200



GENERAL

Storage Capacity(L/Cu.Ft)		200/7.0
Temperature Range(°C)		-126 ~ -150
Noise (dB(A))		69.5
Net/Gross Weight (kg)		315/385
Exterior Dimensions(W*D*H)	mm	1670*850*1060
	in	65.7*33.5*41.7
Interior Dimensions (W*D*H)	mm	667*462*650
	in	26.3*18.2*25.6

ENVIRONMENTAL & ELECTRICAL DATA

Electrical Power (V/Hz)		380V/50Hz
Power Consumption (kW-hr/day)		26
Electrical Current (A)		11
Building Supply Rating (A)		16
Power Lead Length (m)		2.5
Heat Rejection (BTU/day)		136487(stable operation)
Ambient Temperature		10°C ~ 25°C

REFRIGERATION CONFIGURATION

Refrigeration System Type		Direct cooling
Compressor Type/Brand/Number		Hermetic Reciprocating Type/Emerson/1
Compressor Capacity(W)		/
Evaporator Type		Cold Wall With Enhanced Heat Transfer Treatment
Defrost Method		Manual
Refrigerant Charge/Flammable		R404 + R290+R508+X Mix

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
Adjustable High/Low Temp Alarms	Adjustable

CONSTRUCTION

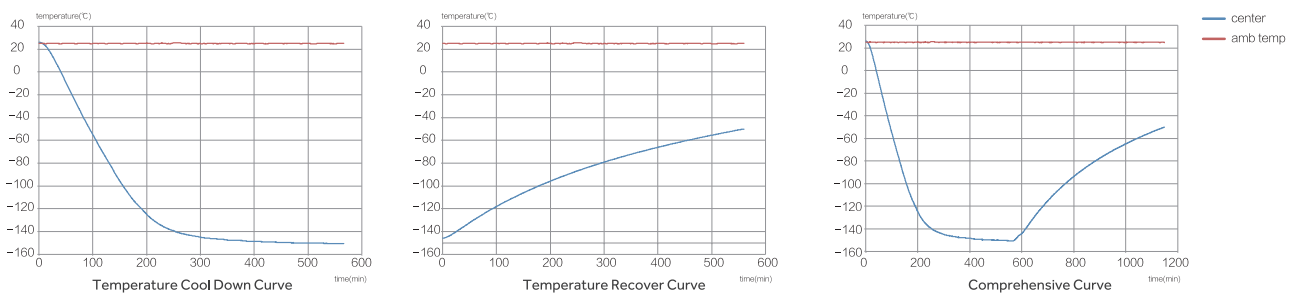
Insulation	VIP+CFC Free Foaming Agent
Exterior Door Seal	Two Seal On the Outside Door Seal Strip
Interior Door Seal	/
Shelves/Capacity/Dims/Material	/
Casters	All-direction caster with fixing stand
Exterior Material	Color Coating Cold Plate Steel
Interior Material	Stainless Steel
Door Thickness	100mm
Cabinet Thickness	140mm
Inner Door	Double Solid Door
Condenser Type	Finned 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
USB	Optional

PERFORMANCE

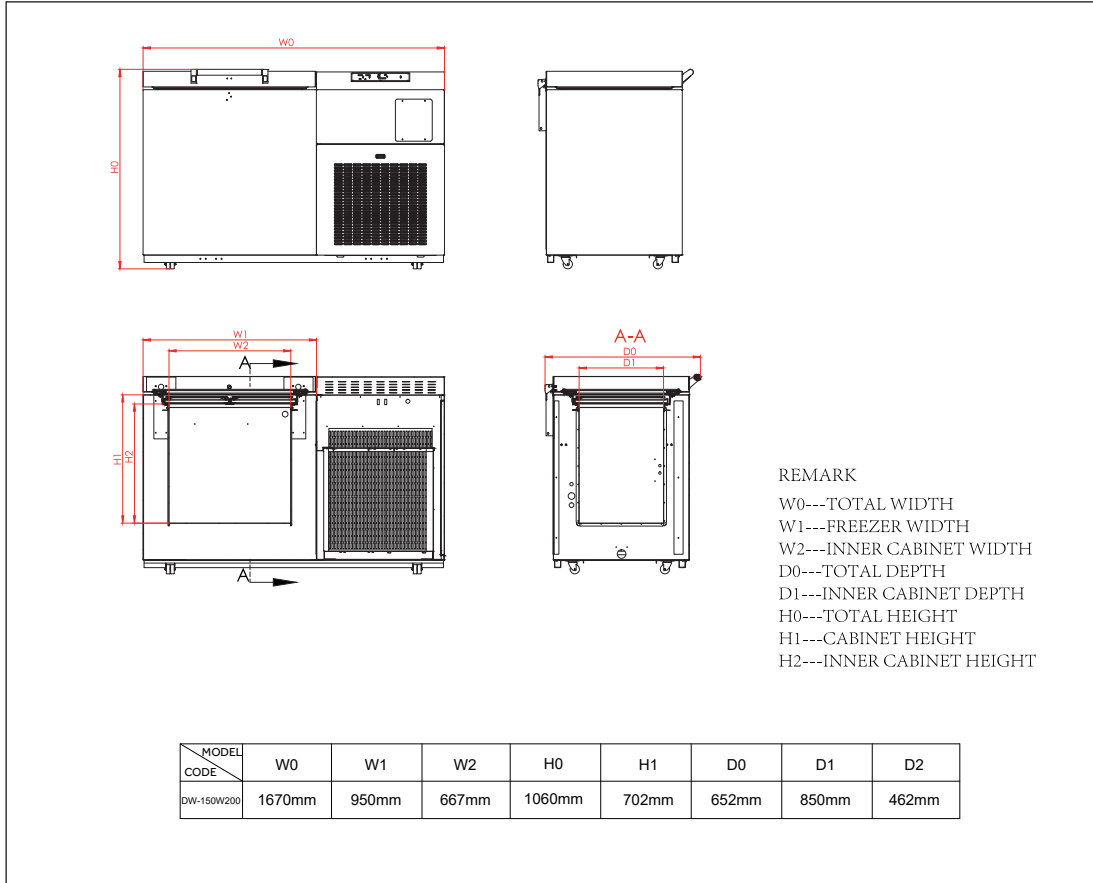
Temperature Uniformity(°C)	+11.7/+1
Temperature Accuracy(°C)	1
Cool Down Time (25 °C ambient to -140 °C) mins	Pull Down Times 25 To -140;330min
Warm Up Time (25 °C ambient -80 °C to -50 °C) mins	Warm Up Times -140 To -100;150 min
1 Min Door Open Recovery Time (ambient 25 °C running temp -75 °C)mins	

CERTIFICATE

TYPICAL PERFORMANCE CHARACTERISTICS IN 25 °C AMBIENT

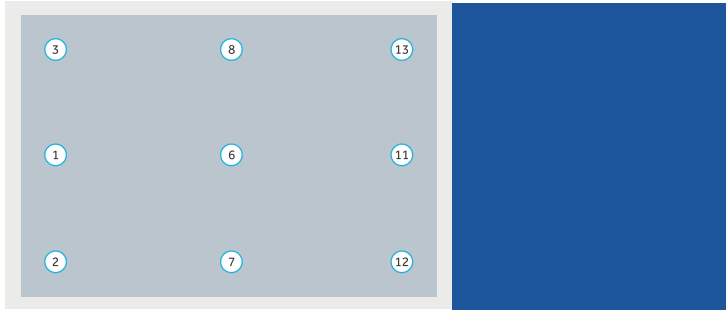


PRODUCT DIMENSION DRAWINGS

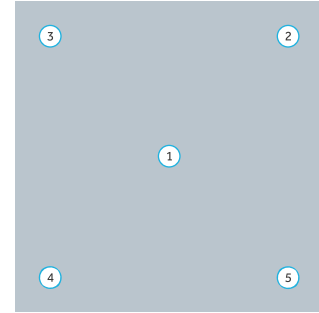


TYPICAL CABINET TEMPERATURE MAP

Top view of shelves



Left view of shelves



°C	1	2	3	4	5	6	7	8	9	10
Max.	-143.2	-139	-139.5	-144	-143	-143.2	-138.3	-138.5	-143.6	-143.3
Min.	-149	-146.1	-147.8	-148.1	-148.7	-148.7	-144.3	-144.5	-148.9	-148.6
Avg.	-146.1	-142.6	-143.7	-146.1	-145.9	-146	-141.3	-141.5	-146.3	-146

°C	11	12	13	14	15
Max.	-143	-137.9	-137.8	-142.8	-143.1
Min.	-148.1	-148.2	-143.3	-148.5	-148.5
Avg.	-145.6	-143.1	-140.6	-145.7	-145.8

*Typical freezer data based on internal testing.



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