

## -40°C Biomedical Freezer

### DW-40L92

**VDW** 

Crucial Temperature Solutions



#### GENERAL

Storage Capacity(L/Cu.Ft)		92/3.3
Temperature Range(°C)		-20 ~ -40
Noise (dB(A))		40
Net/Gross Weight (kg)		46/51
Exterior Dimension (W×D×H)	mm	640*610*860
	in	25.2*24.0*33.9
Interior Dimension (W×D×H)	mm	435*410*635
	in	17.1*16.1*25.0

#### ENVIRONMENTAL & ELECTRICAL DATA

Electrical Power (V/Hz)		220 ~ 240/50
Power(W)		220
Power Consumption(kW-hr/day)		3.3
Electrical Current (A)		2.1
Building Supply Rating (A)		10
Power Lead Length (m)		2.4/3.4
Heat Rejection (BTU/hr)		470
Ambient Temperature(°C)		10 - 32

#### REFRIGERATION CONFIGURATION

Refrigeration System Type		CFC-Free
Compressor Type/Brand/Number		NL7CLX /SECOP/ 1
Compressor Capacity (W)		235
Evaporator Type		Aluminium tube and plate type
Defrost Method		Manual
Refrigerant Charge/Flammable		R404a

CONTROLLER/ELECTRICAL SYSTEM FEATURES

Controller Level	Top
Power Switch	/
Controller Type	Microprocessor
Setpoint Security	Yes
Controller Sensor	NTC
Remote Alarm Terminals	/
Adjustable High/Low Temp Alarms	Y
Auto Voltage Safeguard	N

CONSTRUCTION

Insulation	Ring Isopentane Foaming Agent
Exterior Door Seal	One Seal On The Outside Door Seal Strip
Material	/
Casters	Y/4,back-and-forth moving castor with leg
Exterior Material	Cold Plate SPCC Powder Coated
Interior Material	PS Plate Adsorption
Door Thickness (mm)	78
Cabinet Thickness (mm)	70
Inner Door	N
Condenser Type	Steel Wire and tube
Fan Brand	EBM
Back Up Battery For Alarm Functions	/

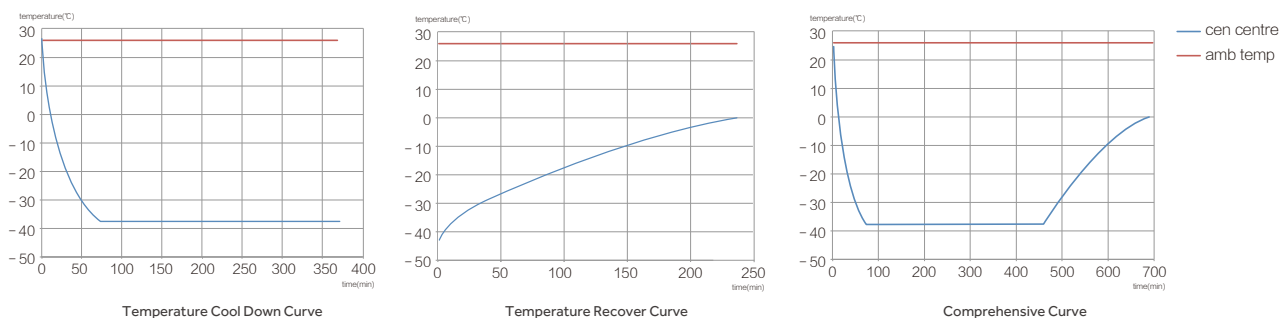
PERFORMANCE

Temperature Uniformity (°C)	±2
Temperature Accuracy (°C)	1
Pull Down Time (25°C ambient to -40°C) mins	210
Warm Up Time (25°C ambient -40°C to -20°C) mins	80

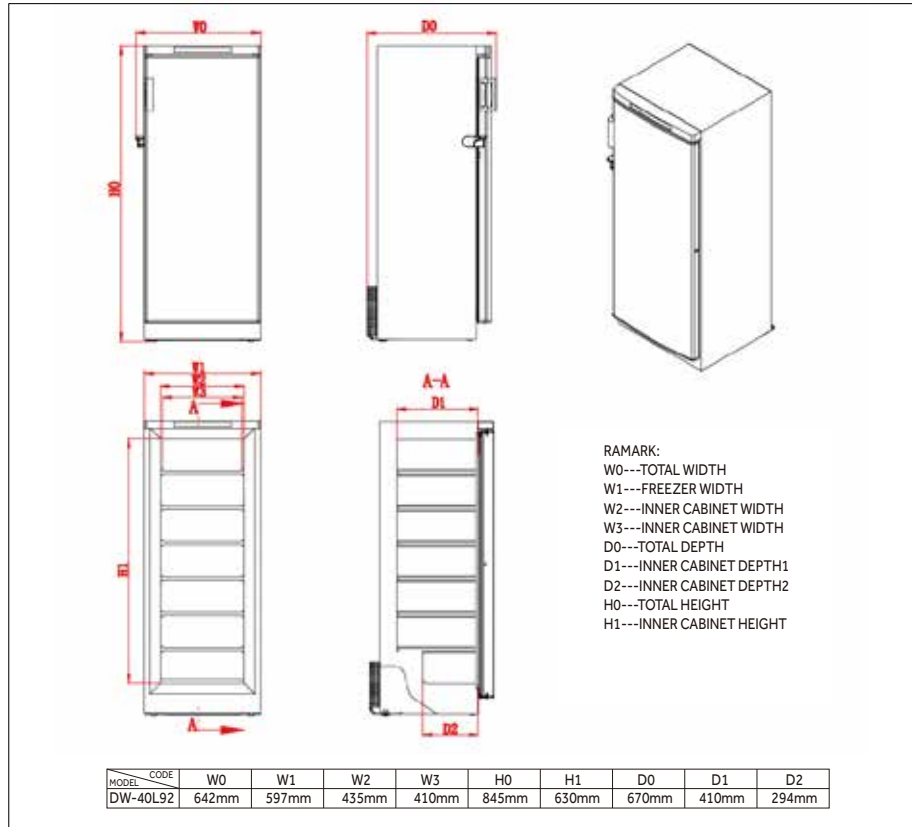
CERTIFICATE

CE

TYPICAL PERFORMANCE CHARACTERISTICS IN 25°C AMBIENT

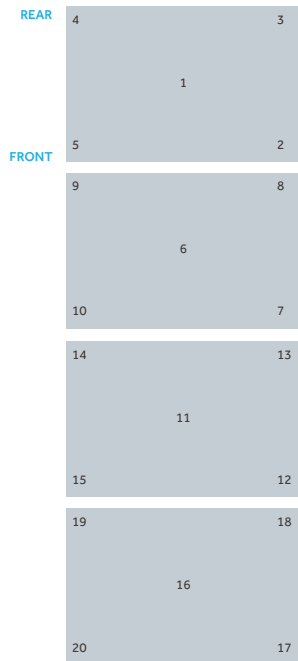


### PRODUCT DIMENSION DRAWINGS

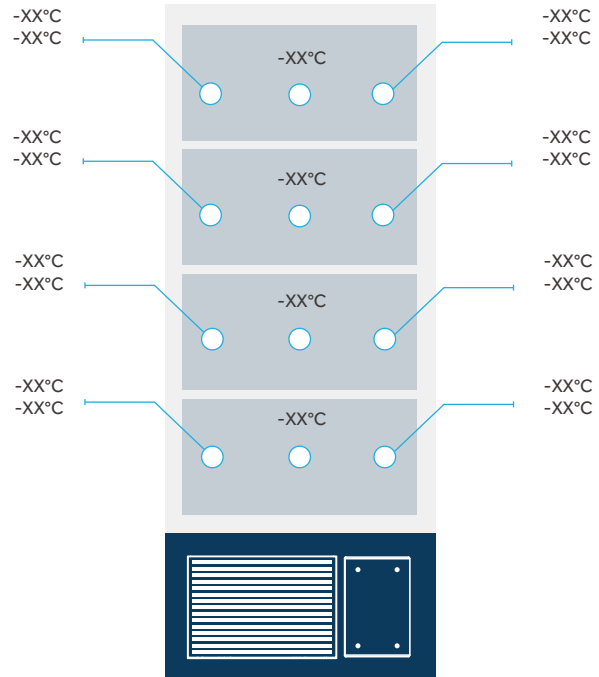


### TYPICAL CABINET TEMPERATURE MAP

Top view of shelves



Front view of shelves



°C	1	2	3	4	5	6	7	8	9	10
Max.	-35.3	-35.6	-36.8	-36.3	-35.6	-38.4	-38.2	-38.3	-38.4	-38.2
Min.	-40.2	-40.5	-41.4	-41.1	-38.0	-42.6	-42.7	-42.6	-42.4	-42.6
Avg.	-37.8	-38.1	-39.1	-38.7	-36.8	-40.5	-40.5	-40.5	-40.4	-40.4

°C	11	12	13	14	15	16	17	18	19	20
Max.	-38.7	-38.7	-38.8	-38.5	-38.7	-36.8	-36.4	-36.7	-36.8	-36.7
Min.	-42.5	-42.1	-42.7	-42.2	-41.9	-40.5	-40.1	-40.4	-40.5	-40.4
Avg.	-40.6	-40.4	-40.8	-40.4	-40.3	-38.7	-38.3	-38.6	-38.7	-38.6