



ENVIRONMENTAL CHAMBER BCEV-503

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A perfect appliance for environmental simulation that consistently is designed to give you a lasting performance. It precisely performs controlled material tests, aging tests and function tests. Durable interiors along with safety features make it an ideal option.

Used in Widely used for controlled testing of substances of specified environmental conditions. A perfect partner for stability and stress testing, shelf life studies and other biological research..

Also known as Environment Simulation Chamber, Test Chamber, Laboratory Environmental Chamber.

BCEV-503 ENVIRONMENTAL CHAMBER

Inner chamber made up of 1.5 mm thick Stainless Steel SUS304 and cold rolled steel plate with electrostatic powder spraying exterior

Forced cold-air circulation system with low-noise axial flow and centrifugal fan ensures the temperature uniformity

High quality hermetic compressor: Low energy consumption, low noise level and low heat dissipation

Insulating material: PU FOAM and Glass fibre cotton prevents heat loss

Silicon rubber which ensures tight sealing

Non-condensation observation window with illumination

Stainless steel test hole of 2 sets x 100 mm diameter

Air cooling system

Noise level ≤ 65 dB

Brazed plate heat exchangers (BHEs) offers highest heat transfer performance

Warped type evaporator

PLC touch screen controller with fix program setting

100 groups program / 120 sections controller capacity

PID and SSR type humidity control system

Refrigerant type: R404A/R23

Refrigerator oil: 3GS/32H

Castors: 4 units for easy handling

Safety features:

Over-temperature, Over-current, Electric leakage, Power phase, Fuse, Ground, and Water shortage Protection

Over-pressure, Over-heating, Over-current protection for compressor

SPECIFICATIONS

Model	BCEV-503
Capacity	225 L
Temperature Range	-70-180°C
Temperature Accuracy	$\pm 1^\circ\text{C}$
Temperature Uniformity	$\pm 2.0^\circ\text{C}$
Temperature Fluctuation	$\pm 0.5^\circ\text{C}$
Temperature Resolution	0.1°C
Temperature Sensor	Pt 100 Ω
Humidity Range	20-98 %RH
Humidity Accuracy	$\pm 0.5\%$ RH
Humidity Uniformity	$\pm 2.0\%$ RH

Humidity Fluctuation	±2.0 %RH
Humidity Sensor	Capacitive Humidity Sensor
Heating Rate	2-3°C/min
Cooling Rate	1-2°C/min
Timer Range	0-9999 min
Shelves	3
Load per Shelf	15 kg
Inner Dimension	500x600x750 mm
Overall Dimension	1000x1000x1750 mm
Weight (Net/Gross)	260/270 kg
Power	7000 W
Power Supply	220V, 60Hz



Biolab Scientific Ltd.

3660 Midland Avenue, Suite 300, Toronto, Ontario M1V 0B8, Canada
 Email: contact@biolabscientific.com | Website: www.biolabscientific.com