



CLIMATIC CHAMBER

CLIMATIC CHAMBER

Our chambers provide excellent temperature and lighting control for regulated growth of plants and other products. Its responsive humidification sensor and energy efficient design make it a preferred choice for a wide range of applications.

Used in Supports plant and insect growth, tissue cultivation, antibiotic cultivation and preservation and other controlled temperature experiments..

Also known as Humidity Chamber, Laboratory Climatic Chamber.

100 CLIMATIC CHAMBER



Programmable microcomputer based PID controller with LCD display

Unique air circulation system ensures temperature uniformity

Mirror finished stainless steel inner chamber and cold-rolling steel with static spray plastics exterior

Double door design with built-in tempered glass viewing window

Built in high capacity intelligent humidification system

Automatic water replenishment by external tank

3-side illumination can be adjusted in five steps

Durable refrigeration system with small temperature fluctuation, auto defrosting and multiple layers security

Environment efficient, energy-saving Fluorine-free Refrigerant R134

Timer and over temperature alarm function

SPECIFICATIONS

Model	BCCL-101		BCCL-102	BCCL-103
Capacity	150 L		250 L	350 L
Temperature Range	5-50°C (Light off), 10-50°C (Light on)			
Temperature Accuracy	±0.5°C			
Temperature Uniformity	±2°C			
Temperature Fluctuation	±2°C			
Temperature Resolution	0.1°C			
Temperature Sensor	Pt 100Ω			
Illumination Range	0-10000 lux		0-15000 lux	
Timer Range	0-99h			
Control Steps	5 Steps			
Shelves	2			
Load per Shelf	10 kg			
Inner Dimension	800x500x380 mm		1000x550x450 mm	1200x550x550 mm
Overall Dimension	1350x640x660 mm		1550x690x660 mm	1700x750x700 mm
Weight (Net/Gross)	120/150 kg		155/200 kg	188/220 kg
Power	900 W		1000 W	1200 W
Power Supply	220V, 50Hz			



BCCL-101



BCCL-102



BCCL-103

200 CLIMATIC CHAMBER



Forced convection mode
 30 Stages programmable Microcomputer PID
 Imported environmental protection insulation materials
 Excellent Imported temperature and humidity Sensor
 SUS304 stainless steel interior material
 ALLCOLDTM: Refrigeration Technology
 ALLIGENTTM: Humidification System
 ALLFLOWTM: Perfect Air Current Cycling

SPECIFICATIONS

Model	BCCL-201	BCCL-202	BCCL-203
Capacity	250 L	300 L	400 L
Temperature Range	10°C~65°C(Light on)/0°C~60°C(Light off)		
Temperature Uniformity	±1 (10-40°C)		±1.5 (10-40°C)
Temperature Fluctuation	±1°C		
Temperature Resolution	0.1°C		
Using Environment Temperature	Ambient temp.10~30°C		
Using Environment Humidity	<70%		
Illumination Range	0-15000 (5 stages adjustable)		
Timer Range	0-99h/0-9999mins		
Shelves	3	4	
Inner Dimension	1100 x 480 x 480 mm	1100 x 540 x 520 mm	1148 x 554 x 610 mm
Overall Dimension	1780 x 710 x 775 mm	1780 x 770 x 815 mm	1828 x 783 x 905 mm
Weight (Net/Gross)	162 kg	183 kg	194 kg
Power	1350 W		1550 W



300 CLIMATIC CHAMBER



Forced convection mode
 30 Stages programmable Microcomputer PID
 Imported environmental protection insulation materials
 Excellent Imported temperature and humidity Sensor
 SUS304 stainless steel interior material
 ALLCOLDTM:Refrigeration Technology
 ALLIGENTTM:Humidification System
 ALLFLOWTM:Perfect Air Current Cycling

SPECIFICATIONS

Model	BCCL-301	BCCL-302	BCCL-303
Capacity	250 L	300 L	400 L
Temperature Range	10°C~65°C(Light on)/0°C~60°C(Light off)		
Temperature Uniformity	±1 (10-40°C)		±1.5 (10-40°C)
Temperature Fluctuation	±1°C		
Temperature Resolution	0.1°C		
Humidity Range	50-90%RH		
Humidity Fluctuation	±3%RH		
Using Environment Temperature	Ambient temp.10~30°C		
Using Environment Humidity	< 70%		
Illumination Range	0-15000 (5 stages adjustable)		
Timer Range	0-99h/0-9999mins		
Shelves	3	4	
Inner Dimension	1100 x 480 x 480 mm	1100 x 540 x 520 mm	1148 x 554 x 610 mm
Overall Dimension	1780 x 710 x 775 mm	1780 x 770 x 815 mm	1828 x 783 x 905 mm
Weight (Net/Gross)	162 kg	183 kg	194 kg
Power	1350 W		1550 W
Power Supply	Single phase AC220V/50Hz		



BCCL-301



BCCL-302



BCCL-303

1300 CLIMATIC CHAMBER



Polished stainless-steel chamber, semicircular arcs at corners for easy cleaning, and the space between the shelves in the chamber is adjustable

Microprocessor controller for temperature and humidity ensures of precise and reliable control

Imported compressor

Independent temperature-limiting alarm system ensures experiments run safely

Printer connector and RS485 connector are options which can connect printer and computer to record the parameters and the variations of temperature

There is a 25mm instruction connection hole on the left side of the chamber for easy testing operation and temperature measurement

SPECIFICATIONS

Model	BCCL-1301	BCCL-1302	BCCL-1303	BCCL-1304
Capacity	80 L	150 L	250 L	500 L
Temperature Range	5-80°C			
Display Resolution	0.1°C			
Temperature Stability	High $\pm 0.5^{\circ}\text{C}$ Low $\pm 1^{\circ}\text{C}$			
Temperature Uniformity	$\pm 2^{\circ}\text{C}$			
Humidity Range	40-85%			
Power Consumption	2000 W	2100 W	2300 W	3850 W
Ambient Temperature	+5 - 35°C			
Electrical Requirement	220 V 50 Hz			
Interior Dimension	400Wx400Dx500H mm	550Wx405Dx670H mm	600Wx500Dx830H mm	670Wx720Dx1020H mm
Exterior Dimension	550Wx790Dx1080H mm	690Wx800Dx1430H mm	740Wx900Dx1580H mm	850Wx1100Dx1930H mm
Shelves	2 pcs	3 pcs		4 pcs

Model	BCCL-1305	BCCL-1306	BCCL-1307	BCCL-1308
Capacity	800 L	80 L	150 L	250 L
Temperature Range	5-80°C	10-70°C		
Display Resolution	0.1°C			
Temperature Stability	High ±0.5°C Low ±1°C			
Temperature Uniformity	±2°C			
Humidity Range	40-85%	40-95%		
Power Consumption	8050 W	2000 W	2100 W	2300 W
Ambient Temperature	+5 - 35°C			
Electrical Requirement	220 V 50 Hz			
Interior Dimension	800Wx590Dx1650H mm	400Wx400Dx500H mm	550Wx405Dx670H mm	600Wx500Dx830H mm
Exterior Dimension	1360Wx890Dx2000H mm	550Wx790Dx1080H mm	690Wx800Dx1430H mm	740Wx900Dx1580H mm
Shelves	4 pcs	2 pcs	3 pcs	

Model	BCCL-1309	BCCL-1310
Capacity	500 L	800 L
Temperature Range	10-70°C	

Display Resolution	0.1°C	
Temperature Stability	High $\pm 0.5^{\circ}\text{C}$ Low $\pm 1^{\circ}\text{C}$	
Temperature Uniformity	$\pm 2^{\circ}\text{C}$	
Humidity Range	40-95%	
Power Consumption	3850 W	8050 W
Ambient Temperature	+5 - 35°C	
Electrical Requirement	220 V 50 Hz	
Interior Dimension	670Wx720Dx1020H mm	800Wx590Dx1650H mm
Exterior Dimension	850Wx1100Dx1930H mm	1360Wx890Dx2000H mm
Shelves	4 pcs	



BCCL-1301



BCCL-1302



BCCL-1303



BCCL-1304



BCCL-1305



BCCL-1306



BCCL-1307



BCCL-1308



BCCL-1309



BCCL-1310

1400 CLIMATIC CHAMBER



Polished stainless-steel chamber, semicircular arcs at corners for easy cleaning, and the height between the shelves in the chamber are adjustable

Homogeneity air circulating system

With temperature and humidity sensor

With programmable controller, large LCD screen

R134A refrigerant, With compressor and fan motor

A 25mm validation port on side of the chamber for easy testing operation and temperature validation

Over temperature and temperature deviation alarms

Compressor over-heat and over-load protections, fan motor over-heat and waterlack protections

Independent audible and visible temperature-limiting alarm system ensures experiments run safely

SPECIFICATIONS

Model	BCCL-1401	BCCL-1402	BCCL-1403	BCCL-1404
Capacity	50 L	100 L	250 L	50 L
Temperature Range	RT+10-85°C			10-100°C
Temperature Accuracy	0.1°C			
Temperature Stability	±1.0°C			High temp: ±0.5°C Low temp: ±1°C
Humidity control range	80-95%RH			35-95%RH
Humidity Accuracy	±3%RH			
Power Consumption	1450 W	1650 W	2050 W	1700 W
Ambient Temperature	+5 - 35°C			
Electrical Requirement	220 V 50 Hz			
Interior Dimension	350Wx300Dx500H mm	500Wx400Dx550H mm	600Wx500Dx820H mm	350Wx300Dx500H mm
Exterior Dimension	720Wx620Dx725H mm	650Wx800Dx1310H mm	750Wx900Dx1580H mm	720Wx620Dx725H mm
Shelves	2 pcs			

Model	BCCL-1405	BCCL-1406	BCCL-1407	BCCL-1408
Capacity	50 L		100 L	
Temperature Range	20-100°C	40-100°C	10-100°C	20-100°C
Temperature Accuracy	0.1°C			
Temperature Stability	High temp: ±0.5°C Low temp: ±1°C			
Humidity control range	35-95%RH			
Humidity Accuracy	±3%RH			
Power Consumption	2250 W	2650 W	1900 W	2300 W
Ambient Temperature	+5 - 35°C			
Electrical Requirement	220 V 50 Hz			
Interior Dimension	350Wx300Dx500H mm		500Wx400Dx600H mm	
Exterior Dimension	720Wx620Dx725H mm		700Wx1040Dx1750H mm	
Shelves	2 pcs			

Model	BCCL-1409	BCCL-1410	BCCL-1411	BCCL-1412
Capacity	100 L		250 L	

Temperature Range	40-100°C	10-100°C	20-100°C	40-100°C
Temperature Accuracy	0.1°C			
Temperature Stability	High temp: $\pm 0.5^{\circ}\text{C}$ Low temp: $\pm 1^{\circ}\text{C}$			
Humidity control range	35-95%RH			
Humidity Accuracy	$\pm 3\%$ RH			
Power Consumption	7050 W	2300 W	2700 W	7100 W
Ambient Temperature	+5 - 35°C			
Electrical Requirement	380V 50HZ	220 V 50 Hz		380V 50HZ
Interior Dimension	500Wx400Dx600H mm	600Wx500Dx820H mm		
Exterior Dimension	700Wx1040Dx1750H mm	750Wx900Dx1580H mm		
Shelves	2 pcs	3 pcs		

Model	BCCL-1413	BCCL-1414	BCCL-1415	BCCL-1416
Capacity	500 L			800 L
Temperature Range	10-100°C	20-100°C	40-100°C	10-100°C
Temperature Accuracy	0.1°C			
Temperature Stability	High temp: $\pm 0.5^{\circ}\text{C}$ Low temp: $\pm 1^{\circ}\text{C}$			
Humidity control range	35-95%RH			
Humidity Accuracy	$\pm 3\%$ RH			
Power Consumption	3850 W	4150 W	7850 W	8050 W
Ambient Temperature	+5 - 35°C			
Electrical Requirement	220 V 50 Hz		380V 50HZ	
Interior Dimension	670Wx720Dx1020H mm			800Wx590Dx1650H mm
Exterior Dimension	850Wx1100Dx1930H mm			1475Wx890Dx1780H mm
Shelves	3 pcs			

Model	BCCL-1417	BCCL-1418	BCCL-1419
Capacity	800 L	1000 L	
Temperature Range	20-100°C	10-100°C	20-100°C
Temperature Accuracy	0.1°C		
Temperature Stability	High temp: ±0.5°C Low temp: ±1°C		High temp: ±0.5°C Low temp ±1°C
Humidity control range	35-95%RH		
Humidity Accuracy	±3%RH		
Power Consumption	8050 W		
Ambient Temperature	+5 - 35°C		
Electrical Requirement	380V 50HZ		
Interior Dimension	800Wx590Dx1650H mm	1050Wx590Dx1650H mm	
Exterior Dimension	1475Wx890Dx1780H mm	1700Wx890Dx1950H mm	
Shelves	3 pcs		



BCCL-1401



BCCL-1402



BCCL-1403



BCCL-1405



BCCL-1406



BCCL-1407



BCCL-1408



BCCL-1409



BCCL-1410



BCCL-1411



BCCL-1412



BCCL-1413



BCCL-1414



BCCL-1415



BCCL-1416



BCCL-1417



BCCL-1418



BCCL-1419



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