



## LOW TEMPERATURE CIRCULATOR

## LOW TEMPERATURE CIRCULATOR

We offer you robust circulators equipped with microprocessor controller for high heating and cooling experiments. Fitted with adjustable casters, corrosion resistant interior and exterior, these circulators are a perfect fit for any environment.

Used in Immunoassays, Melting points, Enzyme reactions, Boiling points, Incubation, Activation of cultures, Laboratory procedures..

Also known as Digital Dry Bath Incubator, Heating block, Laboratory Dry Bath Incubator.

## 200 LOW TEMPERATURE CIRCULATOR



Fuzzy PID temperature control system: control temperature stability accurately and fast.

Multi-protection: Over-current protection, high and low temperature warning functions, dry-running protection.

Convenience function: Parameters memory function, temperature correction.

ECO-refrigerant R134a and high quality compressor guarantee the cooling system ecofriendly and powerful

Low Noise design: use high quality compressor and mute pump.

Robust water tank: ultra-slushing and rust-proof

Bright LCD temperature display

Compact design, removable venting grid for convenient cleaning to maintain cooling performance and drain off water

## SPECIFICATIONS

Model	BCLT-201	BCLT-202	BCLT-203	BCLT-204
Capacity	6 L			
Temperature Range	-5°C ~ 100°C	-5°C ~ 200°C	-20°C ~ 100°C	-20°C ~ 200°C
Temperature Stability	±0.03°C			
Ambient Temperature	-20 ~ 70°C			
Pump Flow Rate	10 L/min			
Pump Capacity Pressure	0.35 bar			
Top Opening	160Lx160W mm			
Inner Dimension (WxDxH)	320Lx180Wx150H mm			
Outer Dimension (WxDxH)	400Lx250Wx65HH mm			
Weight	25 kg			
Control	PID			
Display	0.1°C			
Temperature Sensor	PT100			
Refrigerant	R134a			
Refrigerating Power	250 W			
Heating Power	2000 W			
Power Supply	220 V AC±10% 50 Hz			



BCLT-201



BCLT-202



BCLT-203



BCLT-204

## 300 LOW TEMPERATURE CIRCULATOR



PID controller offers precise temperature control and uniformity  
Corrosion resistant inner and outer chamber made of stainless steel  
Dual LED screen displays temperature and time  
Protection against compressor overload, high/low voltage and current  
Convenient and reliable operation  
Equipped with caster for easy installation

## SPECIFICATIONS

Model	BCLT-301	BCLT-302	BCLT-304
Capacity	8 L	12 L	30 L
Temperature Range	-5°C to 100°C		
Top Opening	120x120 mm	170x110 mm	260x160 mm
Inner Dimension (WxDxH)	150x300x200 mm	240x300x200 mm	360x420x200 mm
Outer Dimension (WxDxH)	400x470x800 mm	400x520x800 mm	500x570x800 mm
Power	162 W	192 W	260 W



BCLT-301



BCLT-302



BCLT-304

## 400 LOW TEMPERATURE CIRCULATOR



PID controller offers precise temperature control and uniformity  
Corrosion resistant inner and outer chamber made of stainless steel  
Dual LED screen displays temperature and time  
Protection against compressor overload, high/low voltage and current  
Convenient and reliable operation  
Equipped with caster for easy installation

## SPECIFICATIONS

Model	BCLT-401	BCLT-402	BCLT-403	BCLT-404
Capacity	8 L	12 L	22 L	30 L
Temperature Range	-20°C to 100°C			
Top Opening	120x120 mm	170x110 mm	170x160 mm	-
Inner Dimension (WxDxH)	150x300x200 mm	240x300x200 mm	355x325x200 mm	360x420x200 mm
Outer Dimension (WxDxH)	400x470x850 mm	400x520x850 mm	450x520x850 mm	500x570x850 mm
Power	192 W	236 W	260 W	280 W
Temperature Resolution	-	±0.1°C		



BCLT-401



BCLT-402



BCLT-403



BCLT-404

## 500 LOW TEMPERATURE CIRCULATOR



PID controller offers precise temperature control and uniformity  
Corrosion resistant inner and outer chamber made of stainless steel  
Dual LED screen displays temperature and time  
Protection against compressor overload, high/low voltage and current  
Convenient and reliable operation  
Equipped with caster for easy installation

## SPECIFICATIONS

Model	BCLT-501	BCLT-502
Capacity	8 L	12 L
Temperature Range	-40°C to 100°C	
Temperature Resolution	±0.1°C	
Top Opening	120x120 mm	170x110 mm
Inner Dimension (WxDxH)	150x300x200 mm	240x300x200 mm
Outer Dimension (WxDxH)	450x520x850 mm	450x570x850 mm
Power	360 W	



BCLT-501



BCLT-502

## 2100 LOW TEMPERATURE CIRCULATOR



P.I.D temperature controller provides accurate and reliable temperature control  
 Large LCD display screen and interface provides for user-friendly operation  
 Preset On/Off function  
 Independent circulating pump switch for easy starting/stopping the cycle  
 Easy to set Adjustable Timer. (1 minute to 5,999 minutes)  
 Maintenance-free operation with easy to clean surface  
 Both heater and bath chamber are made of corrosion-resistant stainless steel  
 No angle in bath chamber, easy to clean. Uniquely designed heating method can up to 80 °C  
 Programming setting function with 7 periods and 9 steps for each period, which means. There are 63 programmable steps in total

## SPECIFICATIONS

Model	BCLT-2101	BCLT-2102	BCLT-2103
Capacity	5 L	8 L	15.5 L
Temperature range	-20 - 20°C		
Temperature accuracy	±2°C		
Cooling capacity at 10°C	530 W	600 W	1500 W
Refrigerant	R404A		R410A
Security features	Delay, leakage, overcurrent, overvoltage		
Total power	550 W	600 W	1300 W
Power requirements	AC 220 V / 50 HZ		
Pump power	30		60
Pump flow max.	6 L / min		17 L / min

Maximum head	9 m		15 m
Inlet/Outlet pipe diameter	Φ10 mm		Φ12 mm
Weight	32	41	60
Liquid storage	3.5	5.2	13
Noise level	≤45		≤55
Dimension	210Wx410Dx511H mm	310Wx445Dx570H mm	400Wx500Dx739H mm

Model	BCLT-2104	BCLT-2105
Capacity	30 L	62 L
Temperature range	-20 - 20°C	
Temperature accuracy	±2°C	
Cooling capacity at 10°C	2500 W	4000 W
Refrigerant	R410A	
Security features	Delay, leakage, overcurrent, overvoltage	
Total power	1600 W	2400 W
Power requirements	AC 220 V / 50 HZ	
Pump power	60	550
Pump flow max.	17 L / min	30 L / min
Maximum head	15 m	25 m
Inlet/Outlet pipe diameter	Φ12 mm	
Weight	76	126
Liquid storage	25	52
Noise level	≤65	≤75
Dimension	450Wx600Dx821H mm	560Wx845Dx850H mm



BCLT-2101



BCLT-2102



BCLT-2103



BCLT-2104



BCLT-2105

## 2200 LOW TEMPERATURE CIRCULATOR



P.I.D temperature controller provides accurate and reliable temperature control  
 Large LCD display screen and interface provides for user-friendly operation  
 Preset On/Off function  
 Independent circulating pump switch for easy starting/stopping the cycle  
 Easy to set Adjustable Timer. (1 minute to 5,999 minutes)  
 Maintenance-free operation with easy to clean surface  
 Both heater and bath chamber are made of corrosion-resistant stainless steel  
 No angle in bath chamber, easy to clean. Uniquely designed heating method can up to 80 °C  
 Programming setting function with 7 periods and 9 steps for each period, which means. There are 63 programmable steps in total

## SPECIFICATIONS

Model	BCLT-2201	BCLT-2202	BCLT-2203
Capacity	5 L	8 L	15.5 L
Temperature range	-20 - 80°C		
Temperature accuracy	±0.5°C		
Cooling capacity at 10°C	530 W	600 W	1500 W
Refrigerant	R404A		R410A
Security features	Delay, leakage, overcurrent, overvoltage		
Total power	1100 W	1350 W	2500 W
Power requirements	AC 220 V / 50 HZ		
Pump power	30		60
Pump flow max.	6 L / min		17 L / min
Maximum head	9 m		15 m
Inlet/Outlet pipe diameter	Φ10 mm		Φ12 mm
Weight	32	41	60
Liquid storage	3.5	5.2	13
Noise level	≤45		≤55
Dimension	210Wx410Dx511H mm	310Wx445Dx570H mm	400Wx500Dx739H mm

Model	BCLT-2204	BCLT-2205
Capacity	30 L	62 L
Temperature range	-20 - 80°C	
Temperature accuracy	±0.5°C	
Cooling capacity at 10°C	2500 W	4000 W
Refrigerant	R410A	
Security features	Delay, leakage, overcurrent, overvoltage	
Total power	3000 W	4300 W
Power requirements	AC 220 V / 50 HZ	
Pump power	60	550
Pump flow max.	17 L / min	30 L / min
Maximum head	15 m	25 m
Inlet/Outlet pipe diameter	Φ12 mm	
Weight	76	126

Liquid storage	25	52
Noise level	≤65	≤75
Dimension	450Wx600Dx821H mm	560Wx845Dx850H mm



BCLT-2201



BCLT-2202



BCLT-2203



BCLT-2204



BCLT-2205

## 2300 LOW TEMPERATURE CIRCULATOR



Microprocessor temperature controller with LCD screen ensures precise and reliable control, easy to operate

No angle in bath chamber, easy to clean

With interface to external water bath

Easy to set adjustable timer. (1 minute to 5,999 minutes)

Maintenance-free operation with easy to clean surface

Both heater and bath chamber are made of corrosion-resistant stainless steel

Drain valve makes emptying of bath water fast and easy for cleaning and moving

Programming setting function with 7 periods and 9 steps for each period, which means there are 63 programmable steps in total

## SPECIFICATIONS

Model	BCLT-2301	BCLT-2302	BCLT-2303	BCLT-2304
Capacity	6.7 L	10.9 L	22.5 L	14.5 L
Temperature range	RT+5 - 150°C			
Precision	±0.1			
Liquid tank opening depth	150x160/150 mm	240x170/150 mm	330x300/150 mm	240x170/240 mm
Power requirements	AC 220 V 50 HZ			
Pump	8 L/min			
Power Consumption	1050 W			



BCLT-2301



BCLT-2302



BCLT-2303



BCLT-2304

## 2600 LOW TEMPERATURE CIRCULATOR



Microprocessor temperature controller with LCD screen ensures precise and reliable control, easy to operate

No angle in bath chamber, easy to clean

Programming setting function with 7 periods and 9 steps for each period, which means there are 63 programmable steps in total

R134a refrigerant

With interface to external water bath

Easy to set adjustable timer. (1 minute to 5,999 minutes)

Maintenance-free operation with easy to clean surface

Both heater and bath chamber are made of corrosion-resistant stainless steel

Drain valve makes emptying of bath water fast and easy for cleaning and moving

## SPECIFICATIONS

Model	BCLT-2601	BCLT-2602	BCLT-2603
Capacity	4.5 L		
Temperature range	-10 - 100°C	-20 - 100°C	-40 - 100°C
Precision	±0.2		
Liquid tank opening/depth	150x160/150 mm		
Power requirements	AC 220 V 50 HZ		
Pump	8 L/min		
Power Consumption	2300 W		3150 W

Model	BCLT-2604	BCLT-2605	BCLT-2606
Capacity	13 L		
Temperature range	-10 - 100°C	-20 - 100°C	-40 - 100°C
Precision	±0.2		
Liquid tank opening/depth	240x170/200 mm		
Power requirements	AC 220 V 50 HZ		
Pump	8 L/min		
Power Consumption	2300 W		3100 W



BCLT-2601



BCLT-2602



BCLT-2603



BCLT-2604



BCLT-2605



BCLT-2606

## 2800 LOW TEMPERATURE CIRCULATOR



Microprocessor temperature controller

Audible and visible alarm for temperature and water level

R134a refrigerant, imported compressor

With interface to external water bath

RS485 connector is option which can connect computer to record the parameters and the variations of temperature

## SPECIFICATIONS

Model	BCLT-2801	BCLT-2802	BCLT-2803	BCLT-2804
Capacity	6.7 L	10.9 L	22.5 L	14.5 L
Temperature range	RT+5-100°C			
Precision	±0.1			±0.2
Interior Dimension	150x160x150	240x170x150	330x300x150	240x170x200
Electrical Requirements	220 V 50 Hz			
Pump (flux)	8 L/min			
Power Consumption	1050 W			

Model	BCLT-2805	BCLT-2806	BCLT-2807	BCLT-2808
Capacity	14.5 L	4.5 L		
Temperature range	RT+5-100°C	-10-100°C	-20-100°C	-30-100°C
Precision	±0.2			
Interior Dimension	240x170x200	150x160x150		

Electrical Requirements	220 V 50 Hz		
Pump (flux)	8 L/min		
Power Consumption	1050 W	2300 W	2800 W

Model	BCLT-2809	BCLT-2810	BCLT-2811	BCLT-2812
Capacity	4.5 L		13 L	
Temperature range	-40-100°C	-50-100°C	-10-100°C	-20-100°C
Precision	±0.2			
Interior Dimension	150x160x150		240x170x200	
Electrical Requirements	220 V 50 Hz			
Pump (flux)	8 L/min			
Power Consumption	3150 W	3100 W	2300 W	

Model	BCLT-2813	BCLT-2814	BCLT-2815
Capacity	13 L		≤50 L
Temperature range	-40-100°C	-50-100°C	-100-200°C
Precision	±0.2		0.1
Interior Dimension	240x170x200		130x150x330
Electrical Requirements	220 V 50 Hz		
Pump (flux)	8 L/min		
Power Consumption	3100 W		1050 W



BCLT-2801



BCLT-2802



BCLT-2803



BCLT-2804



BCLT-2805



BCLT-2806



BCLT-2807



BCLT-2808



BCLT-2809



BCLT-2810



BCLT-2811



BCLT-2812



BCLT-2813



BCLT-2814



BCLT-2815

## 2900 LOW TEMPERATURE CIRCULATOR



High precision temperature controller

## SPECIFICATIONS

Model	BCLT-2901	BCLT-2902	BCLT-2903
Capacity	13 L		
Temperature range	-20-100°C	-30-100°C	-40-100°C
Precision	±0.02		
Peristome Dimension	240x170x200		
Pump(flux)	15 L/min		
Power	2850 W		



BCLT-2901



BCLT-2902



BCLT-2903



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