

Baths and Circulators



- **Digital Oil Bath**
- **Visco-Sight Bath**
- **Immersion Bath Circulator**
- **Refrigerated Bath Circulator**
- **Large Capacity Chillers**
- **Digital Water Bath**
- **Shaking Water Bath**
- **Large Capacity Circulating Bath**
- **Cooling Bath Circulator**



Ideal for biotechnology applications, bacteriological examinations, food processing and quality control procedures. Indirect heating of bath by IPH-technology achieves uniformity of temperature within $\pm 0.2^{\circ}\text{C}$ all over the bath.

Main Specifications:

⊗ Temperature Range	Ambient + 5 °C ~ 80°C
⊗ Controller	Digital PID Control
⊗ Accuracy	$\pm 0.1^{\circ}\text{C}$
⊗ Uniformity	$\pm 0.2^{\circ}\text{C}$
⊗ Heating Type	Indirect Heating
⊗ Capacity	6 / 11 / 22 / 30 Litres

Features:

- ⊗ Indirect heating by IPH-technology provides temperature uniformity.
- ⊗ Up to Max. 80°C, $\pm 0.1^{\circ}\text{C}$ accuracy and $\pm 0.2^{\circ}\text{C}$ uniformity.
- ⊗ Digital PID Controller enables $\pm 0.1^{\circ}\text{C}$ resolution.
- ⊗ Over temperature protection, alarm, timer, auto-tuning and inbuilt temperature calibration functions.
- ⊗ Seamless stainless steel 304 bath with fully round cornered edges provide easy cleaning and maintenance.
- ⊗ IPH-technology provides maximum usable volume and depth. No possibility of scale formation on the heater surface.
- ⊗ Hydraulic over temperature cut-off and CG-fuse for safety.
- ⊗ Stainless steel flat lid included.
- ⊗ Stainless steel gabled lid also available (optional).



LIWB-06TL, 11TL, 22TL & 30TL

Technical Specifications and Ordering Information

Model No		LIWB-06TL	LIWB-11TL	LIWB-22TL	LIWB-30TL
Bath Capacity		6L	11L	22L	30L
Temperature	Heating type	Indirect heating by IPH technology			
	Range	Ambient + 5°C ~ 80°C at room temp. <25°C			
	Accuracy	$\pm 0.1^{\circ}\text{C}$ at 37°C			
	Uniformity	$\pm 0.2^{\circ}\text{C}$ at 37°C			
Control	Main Controller	Digital PID Controller			
	Wait-off Timer	mm:ss / hh:mm / Continuous selectable			
	Sensor	Pt 100 Ω			
Safety Device	Temperature	Hydraulic over temperature protection safety device			
	Electrical	CG Fuse			
Dimensions (WxDxH) mm	Inner	300 x 155 x 150	300 x 240 x 150	500 x 300 x 150	500 x 300 x 190
	Usable	300 x 155 x 150	300 x 240 x 150	500 x 300 x 150	500 x 300 x 190
	Outer	360 x 235 x 255	360 x 320 x 255	570 x 380 x 255	570 x 380 x 295
Material	Bath	Seamless stainless steel electro-polished (SUS304)			
	External	Steel 1T with epoxy powder coating			
	Lid	Stainless steel flat lid included (inquire for stainless steel gabled lid)			
	Drain	None		Self -adhesive magnetic cap	
Catalog No.		10150101	10150102	10150103	10150104

Direct heating of bath by immersed incolony heater provides fast and accurate temperature control within $\pm 0.2^{\circ}\text{C}$.

Main Specifications:

⊕ Temperature Range	Ambient + 5°C ~ 99°C
⊕ Controller	Digital PID Control
⊕ Accuracy	$\pm 0.2^{\circ}\text{C}$
⊕ Uniformity	$\pm 0.5^{\circ}\text{C}$
⊕ Heating Type	Direct heating by immersed incolony heater
⊕ Capacity	6 / 11 / 22 / 30 Litres



LWB-06T, 11T, 22T & 30T

Features:

- ⊕ Direct heating by immersed incolony heater provides fast heating to set temperature.
- ⊕ Up to Max. 90°C , $\pm 0.2^{\circ}\text{C}$ accuracy and $\pm 0.5^{\circ}\text{C}$ uniformity.
- ⊕ Digital PID controller enables $\pm 0.1^{\circ}\text{C}$ resolution.
- ⊕ Seamless stainless steel 304 bath with fully round cornered edges provide easy cleaning and maintenance.
- ⊕ Perforated stainless steel heat cover protects heater and sensor from damage.
- ⊕ Hydraulic over temperature cut-off and CG-fuse for safety.
- ⊕ Stainless steel flat lid included.

Technical Specifications and Ordering Information

Model No		LWB-06T	LWB-11T	LWB-22T	LWB-30T
Bath Capacity		6L	11L	22L	30L
Temperature	Heating type	Direct heating by immersed stainless steel incolony heater			
	Range	Ambient + 5°C ~ 99°C			
	Accuracy	$\pm 0.2^{\circ}\text{C}$ at 37°C			
	Uniformity	$\pm 0.5^{\circ}\text{C}$ at 37°C			
Control	Main controller	Digital PID controller			
	Wait-off timer	mm:ss/hh:mm/Continuous selectable			
	Sensor	Pt 100 Ω			
Safety Device	Temperature	Hydraulic over temperature protection safety device			
	Electrical	CG Fuse			
Dimensions (W x D x H) mm	Inner	300 x 155 x 150	300 x 240 x 150	500 x 300 x 150	500 x 300 x 190
	Usable	300 x 155 x 130	300 x 240 x 130	500 x 300 x 130	500 x 300 x 170
	Outer	360 x 235 x 255	360 x 320 x 255	570 x 380 x 255	570 x 380 x 295
Material	Bath	Seamless stainless steel electro-polished (SUS304)			
	External	Steel 1T with epoxy powder coating			
	Lid	Stainless steel flat lid included (inquire for stainless steel gabled lid)			
	Drain	None		Self-adhesive magnetic cap	
Catalog No.		10150201	10150202	10150203	10150204

Ideal for high temperature applications up to 250°C such as dipping and melting experiments.

Main Specifications:

⊗ Temperature Range	Ambient + 10°C ~ 250°C
⊗ Controller	Digital PID Control
⊗ Accuracy	± 1.5°C
⊗ Uniformity	± 3.0°C
⊗ Heating Type	Incolony immersed heater
⊗ Capacity	10 / 20 / 33 Litres



LOB-100T, 200T, & 330T

Features:

- ⊗ Direct heating by immersed incolony heater provides fast heating.
- ⊗ Up to Max. 250°C, ± 1.5°C accuracy and ± 3.0°C uniformity.
- ⊗ Digital PID controller enables ± 0.1°C resolution.
- ⊗ Over temperature protection, alarm, timer, auto-tuning and inbuilt temperature calibration functions.
- ⊗ 1.6mm thick stainless steel 304 bath with 50mm thick ceramic wool insulation.
- ⊗ Perforated stainless steel heat cover protects heater and sensor from damage.
- ⊗ Hydraulic over temperature cut-off and ELB for safety.
- ⊗ Stainless steel lid with foamed silicon packing included.
- ⊗ Steam ventilation hole on the lid for safety.

Technical Specifications and Ordering Information

Model No		LOB-100T	LOB-200T	LOB-330T
Bath capacity		10L	20L	33L
Temperature	Heating type	Direct heating by immersed stainless steel incolony heater		
	Range	Ambient + 10°C ~ 250°C		
	Accuracy	± 1.5°C at 120°C		
	Uniformity	± 3.0°C at 120°C		
Control	Main controller	Digital PID controller		
	Wait-off timer	mm:ss/ hh:mm/Continuous selectable		
	Sensor	Pt 100 Ω		
Safety Device	Temperature	Hydraulic over temperature protection safety device		
	Electrical	Electrical leakage breaker		
Dimensions (W x D x H) mm	Inner	300 x 220 x 170	400 x 300 x 170	430 x 300 x 260
	Usable	300 x 220 x 130	400 x 300 x 130	430 x 300 x 220
	Outer	550 x 310 x 330	650 x 390 x 330	680 x 390 x 420
Material	Bath	1.6 gauge stainless steel polished (SUS304)		
	External	Steel 1T with epoxy powder coating		
	Lid	Stainless steel lid with foamed silicon packing		
	Drain	Ball check valve		
Catalog No.		10150301	10150302	10150303

Ideal for use with cannon or ubbelohde glass capillary viscometer which determine viscosity using ASTM testing method.

Main Specifications:

- ⊗ Temperature Range Ambient + 5°C ~ 99°C
- ⊗ Controller Digital PID Control
- ⊗ Accuracy ± 0.1°C
- ⊗ Uniformity ± 0.2°C
- ⊗ Heating Type Direct heating with circulation
- ⊗ Capacity 30 Litres



LVWB-30T

Features:

- ⊗ Direct heating by immersed incolony heater with magnetic driven pump that circulates water to keep uniform temperature.
- ⊗ Up to Max. 99°C, ± 0.1°C accuracy and ± 0.2°C uniformity.
- ⊗ Digital controller enables ± 0.1°C resolution.
- ⊗ Over temperature protection, alarm, timer, auto-tuning and inbuilt temperature calibration functions.
- ⊗ Stainless steel 304 bath with large viewing window to measure viscosity easily.
- ⊗ Perforated stainless steel heat cover protects heater and sensor from damage.
- ⊗ Hydraulic over temperature cut-off and CG-fuse for safety.
- ⊗ Stainless steel lid for each viscosity hole.

Technical Specifications and Ordering Information

Model No.		LVWB-30T
Bath Capacity		30L
Temperature	Heating type	Direct heating by immersed stainless steel incolony heater with magnet driven circulation pump
	Range	Ambient + 5°C ~ 99°C
	Accuracy	± 0.1°C at 50°C
	Uniformity	± 0.2°C at 50°C
Control	Main controller	Digital PID controller
	Wait-off timer	mm:ss/hh:mm/Continuous selectable
	Sensor	Pt 100 Ω
Safety Device	Temperature	Hydraulic over temperature protection safety device
	Electrical	Electrical circuit breaker
Dimensions	Inner	350 x 300 x 300
(W x D x H) mm	Usable	350 x 300 x 280
	Outer	600 x 400 x 450
Material	Bath	Stainless steel electro-polished (SUS304)
	External	Steel 1T with epoxy powder coating
	Lid	Stainless steel lid included
	Drain	Self-adhesive magnetic cap
Catalog No.		10150401

Ideal for chemistry, chemical engineering, cell culture, biological samples, yeast, soil extraction and general applications that requires stable and reproducilbe temperature and mixing condition.

Main Specifications:

⊕ Temperature Range	Ambient + 5°C ~ 99°C
⊕ Shaking	20 ~ 120rpm
⊕ Controller	Digital PID Control
⊕ Accuracy	± 0.1°C
⊕ Uniformity	± 0.3°C
⊕ Capacity	30 / 50 Litres



LSWB-30T & 50T

Features:

- ⊕ Integrated precision temperature control within ± 0.1°C and reciprocal shaking motion from 20 ~ 120rpm with a stroke length of 25mm.
- ⊕ Dual digital LED displays PV and SV values and selection of temperature, speed and time.
- ⊕ Temperature and shaking can be controlled together or independently with wait-off timer.
- ⊕ Silent, low noise level belt drive shaking mechanism.
- ⊕ Acceleration and reduction speed rate is adjustable.
- ⊕ Corrosion resistant seamless stainless steel 304 (AISI304) internal bath gabled lid.
- ⊕ Over temperature cut-off and electrical leakage breaker.
- ⊕ Including stainless steel 304 (AISI304) universal spring rack to accommodate various kinds of containers.
- ⊕ Stainless steel 304 (AISI304) gabled lid.

Technical Specifications and Ordering Information

Model No		LSWB-30T	LSWB-50T
Bath Capacity		30L	50L
Temperature	Range	Ambient + 5°C ~ 99°C	
	Accuracy	± 0.1°C	
	Uniformity	± 0.3°C	
Controller		Integrated digital PID Controller with timer and auto-tuning	
	Display	Dual 4 digit LED display	
	Sensor	Pt 100 Ω / Opto-electric feedback control	
Shaking Speed		20 ~ 120 rpm / 25 mm stroke reciprocal motion / ± 1 rpm	
Safety Device		Over temp. cut-off/Electrical leakage breaker	
Dimensions (W x D x H) mm	Inner	500 x 300 x 190	600 x 380 x 220
	Outer	760 x 370 x 390	860 x 450 x 390
	Rack usable	350 x 210 x 140	470 x 250 x 150
Material	Bath	Seamless stainless steel 304	Stainless steel 304
	Body	Steel with epoxy powder coating	
Catalog No.		10150501	10150502

Water bath temperature control range from ambient + 5°C to 99°C, with internal and external circulation pump. Internal circulation enables precise temperature uniformity in the bath within $\pm 0.1^\circ\text{C}$ comparing to conventional heated water bath without circulation system. External circulation pump enables to circulate water to external equipments at constant temperature. External circulation flow rate is 12 litre/minute and pressure is 250 mbar.

Main Specifications:

- ⊕ Temperature Range Ambient + 5°C ~ 99°C
- ⊕ Controller Digital PID Control
- ⊕ Accuracy $\pm 0.1^\circ\text{C}$
- ⊕ Uniformity $\pm 0.2^\circ\text{C}$
- ⊕ Circulation Internal and external up to 12 Litres/minute
- ⊕ Capacity 11 / 22 Litres



LIBC-11T & 22T

Features:

- ⊕ Direct heating by immersed incolony heater and circulation by over head motor pump which provide high precision in temperature and uniformity.
- ⊕ Up to Max. 99°C, $\pm 0.1^\circ\text{C}$ accuracy and $\pm 0.2^\circ\text{C}$ uniformity.
- ⊕ Digital PID Controller enables $\pm 0.1^\circ\text{C}$ resolution.
- ⊕ Over temperature protection, alarm, timer, auto-tuning and inbuilt temperature calibration functions.
- ⊕ Seamless stainless steel 304 bath with fully round cornered edges provide easy cleaning and maintenance.
- ⊕ Stainless steel pump assembly is corrosion resistant for life time repeated usage.
- ⊕ Over head motor pump assembly circulates water up to 12litres/minute and 250 mbar pressure.
- ⊕ Stainless steel flat lid included.

Technical Specifications and Ordering Information

Model No		LIBC-11T	LIBC-22T
Bath Capacity		11L	22L
Temperature	Range	Ambient + 5°C to 99°C	
	Accuracy	$\pm 0.1^\circ\text{C}$	
	Uniformity	$\pm 0.2^\circ\text{C}$	
Controller		Digital PID controller with timer and auto-tuning	
	Display	4 digit LED display	
	Sensor	Pt 100 Ω	
Safety Device		Over temp. cut-off/Electrical leakage breaker	
Dimensions (W x D x H) mm	Inner	300 x 240 x 150	500 x 300 x 150
	Outer	360 x 290 x 440	560 x 340 x 440
	Usable	130 x 240 x 150	330 x 300 x 150
Material	Bath	Seamless stainless steel 304	
	Body	Steel with epoxy powder coating	
Circulation Pump		Internal and External /Capacity 12 litre/min/250 mbar	
Catalog No.		11150101	11150102

LARGE CAPACITY CIRCULATING BATH

LLCB Series



Water bath temperature control range from ambient + 5°C to 99.9°C, with large volume of internal and external circulation pump. Internal circulation enables precise temperature uniformity in the bath within ± 0.3°C comparing to conventional heated water bath without circulation system. External circulation pump enables to circulate water to external equipments at constant temperature. External circulation flow rate is 7 litres/minute and pressure is 450 mbar.

Main Specifications:

⊕ Temperature Range	Ambient + 5°C ~ 99°C
⊕ Controller	Digital PID Control
⊕ Accuracy	± 0.1°C
⊕ Uniformity	± 0.3°C
⊕ Circulation	Internal and external up to 7 litres/min
⊕ Capacity	50 / 100 Litres



Features:

- ⊕ Direct heating by immersed incolony heater and circulation by magnetic driven pump which provides high precision in temperature and uniformity.
- ⊕ Up to Max. 99°C, ± 0.1°C accuracy and ± 0.3°C uniformity.
- ⊕ Digital PID Controller enables ± 0.1°C resolution.
- ⊕ Over temperature protection, alarm, timer, auto-tuning and inbuilt temperature calibration functions.
- ⊕ Stainless steel 304 bath is corrosion resistant, easy to clean and maintain.
- ⊕ Magnetic driven pump is ABS material which is corrosion resistant for life time repeated usage.
- ⊕ Pump assembly circulates water up to 7/20 Litres/minutes at high pressure up to 450 mbar.
- ⊕ Stainless steel flat lid included.

Technical Specifications and Ordering Information

Model No		LLCB-50T	LLCB-100T
Bath Capacity		50L	100L
Temperature	Range	Ambient + 5°C to 99°C	
	Accuracy	± 0.1°C	
	Uniformity	± 0.3°C	
Controller		Digital PID controller with timer and auto-tuning	
	Display	4 digit LED display	
	Sensor	Pt 100 Ω	
Safety Device		Over temp. cut-off/Electrical leakage breaker	
Dimensions (W x D x H) mm	Inner	300 x 400 x 400	400 x 500 x 500
	Outer	400 x 550 x 550	500 x 650 x 650
	Usable	300 x 440 x 350	400 x 500 x 450
Material	Bath	Seamless stainless steel 304	
	Body	Steel with epoxy powder coating	
Circulation Pump		Internal and external /Capacity 7 litre/min for 50T, 20 litre/min for 100T / 450 mbar	
Catalog No.		11150201	11150202

REFRIGERATED BATH CIRCULATOR

LRBC Series



Low temperature circulation control range from -40°C or -20°C to 120.0°C , with internal and external circulation pump. Internal circulation enables precise temperature uniformity in the bath within $\pm 0.1^{\circ}\text{C}$. Impeller type external circulation pump enables to circulate chilled water to external equipments at constant temperature. External circulation flow rate is 12 litres/minute and pressure is 250 mbar.

Main Specifications:

- ⊗ Temperature Range -40°C or $-20^{\circ}\text{C} \sim 120^{\circ}\text{C}$
- ⊗ Controller Digital PID Control
- ⊗ Accuracy $\pm 0.1^{\circ}\text{C}$
- ⊗ Uniformity $\pm 0.3^{\circ}\text{C}$
- ⊗ Circulation Internal and external up to 12 litres/min
- ⊗ Capacity 13 / 22 Litres

Features:

- ⊗ Cooling by hermetically sealed compressor, temperature controlled by heater and over head motor pump keeps high precision in temperature and uniformity.
- ⊗ From -40°C or -20°C to 120.0°C , $\pm 0.1^{\circ}\text{C}$ accuracy.
- ⊗ Digital PID Controller enables $\pm 0.1^{\circ}\text{C}$ resolution.
- ⊗ Over temperature protection, alarm, timer, auto-tuning and inbuilt temperature calibration functions.
- ⊗ Corrosion resistant stainless steel 304(AISI304) bath is easy to clean and maintain.
- ⊗ Stainless steel pump assembly is corrosion resistant for life time repeated usage.
- ⊗ Over head motor pump assembly circulates water up to 12 litres/minute at 250 mbar pressure.
- ⊗ Stainless steel flat lid included.



LRBC-13C, 22C, 13CL & 22CL

Technical Specifications and Ordering Information

Model No		LRBC-13C	LRBC-22C	LRBC-13CL	LRBC-22CL
Bath Capacity		13L	22L	13L	22L
Temperature	Heating type	Direct heating by immersed stainless steel incolony heater with circulation			
	Range	$-20.0^{\circ}\text{C} \sim 120.0^{\circ}\text{C}$		$-40.0^{\circ}\text{C} \sim 120.0^{\circ}\text{C}$	
	Accuracy	$\pm 0.1^{\circ}\text{C}$ at -10°C			
	Uniformity	$\pm 0.3^{\circ}\text{C}$ at -10°C			
Control	Main controller	Digital PID controller			
	Wait-off timer	mm:ss/hh:mm/Continuous selectable			
	Sensor	Pt 100 Ω			
Safety Device	Temperature	Hydraulic over temperature protection safety device			
	Electrical	CG Fuse			
Dimensions (W x D x H) mm	Inner	240 x 320 x 150	320 x 420 x 150	240 x 320 x 150	320 x 420 x 150
	Outer	330 x 420 x 650	415 x 505 x 730	330 x 420 x 650	415 x 505 x 730
	Usable	240 x 150 x 150	320 x 250 x 150	240 x 150 x 150	320 x 250 x 150
Material	Bath	Stainless steel HL(AISI 304)			
	External	Steel 1T with epoxy powder coating			
	Lid	Stainless steel flat lid included			
Circulation Pump		Internal and external / Capacity 12 litre/min/250 mbar			
Catalog No.		11150301	11150302	11150303	11150304

Low temperature circulation control range from -40°C or -20°C to 90.0°C , with internal and external high pressure circulation pump. Internal circulation enables precise temperature uniformity in the bath within $\pm 0.1^{\circ}\text{C}$. Magnetic driven external circulation pump enables to circulate chilled water to external equipments at constant temperature. External circulation flow rate is 7 litres/minute and pressure is 450 mbar.

Main Specifications:

⊕ Temperature Range	-40°C or $-20^{\circ}\text{C} \sim 90^{\circ}\text{C}$
⊕ Controller	Digital PID Control
⊕ Accuracy	$\pm 0.2^{\circ}\text{C}$
⊕ Uniformity	$\pm 0.3^{\circ}\text{C}$
⊕ Circulation	Internal and external up to 12 litres/min
⊕ Capacity	13 / 22 / 30 Litres

Features:

- ⊕ Cooling by hermetically sealed compressor, temperature controlled by heater & magnetic driven pump keeps high precision in temperature & uniformity.
- ⊕ From -40°C or -20°C to 90°C , $\pm 0.2^{\circ}\text{C}$ accuracy.
- ⊕ Digital PID Controller enables $\pm 0.1^{\circ}\text{C}$ resolution.
- ⊕ Over temperature protection, alarm, timer, auto-tuning and inbuilt temperature calibration functions.
- ⊕ Stainless steel 304 bath is corrosion resistant, easy to clean and maintain.
- ⊕ Magnetic driven pump is ABS material which is corrosion resistant for life time repeated usage.
- ⊕ Pump assembly circulates water up to 7 litres/minute at high pressure up to 450mbar.
- ⊕ Stainless steel flat lid included.



LCCB-13C, 22C, 30C,
13CL, 22CL & 30CL

Technical Specifications and Ordering Information

Model No		LCCB-13C	LCCB-22C	LCCB-30C	LCCB-13CL	LCCB-22CL	LCCB-30CL
Bath Capacity		13L	22L	30L	13L	22L	30L
Temperature	Heating type	Direct heating by immersed stainless steel incolony heater with circulation					
	Range	$-20.0^{\circ}\text{C} \sim 90.0^{\circ}\text{C}$			$-40.0^{\circ}\text{C} \sim 90.0^{\circ}\text{C}$		
	Accuracy	$\pm 0.2^{\circ}\text{C}$ at -10.0°C					
	Uniformity	$\pm 0.3^{\circ}\text{C}$ at -10.0°C					
Control	Main controller	Digital PID controller					
	Wait-off timer	mm:ss/ hh:mm/Continuous selectable					
	Sensor	Pt 100 Ω					
Safety Device	Temperature	Hydraulic over temperature protection safety device					
	Electrical	Electrical circuit breaker					
Dimensions (W x D x H)mm	Inner	260x240x180	340x320x220	350x350x250	260x240x180	340x320x220	350x350x250
	Usable	235x215x155	265x265x195	275x295x225	235x215x155	265x265x195	275x295x225
	Outer	320x500x750	400x250x790	410x280x820	320x500x750	400x250x790	410x280x820
Material	Bath	Stainless steel HL(AISI 304)					
	External	Steel 1T with epoxy powder coating					
	Lid	Stainless steel flat lid included					
Circulation Pump		Magnetic driven pump/Internal and External Capacity 7 litre/min/450 mbar					
Catalog No.		11150401	11150402	11150403	11150404	11150405	11150406

Low temperature control range from -20°C to 90.0°C , application needs large capacity heat exchange, high pressure and large volume circulation. Ideal for use with analytical instruments. Magnetic driven external circulation pump enables to circulate chilled water to external equipments at constant temperature. External circulation flow rate is 45 litres/minute and pressure is 400 mbar.

Main Specifications:

- ⊕ Temperature Range $-20^{\circ}\text{C} \sim 90^{\circ}\text{C}$
- ⊕ Controller Digital PID Control
- ⊕ Accuracy $\pm 0.2^{\circ}\text{C}$
- ⊕ Uniformity $\pm 0.3^{\circ}\text{C}$
- ⊕ Circulation Internal and external up to 45 litres/min
- ⊕ Capacity 35 Litres



LLCC-35C

Features:

- ⊕ Cooling by hermetically sealed compressor, temperature controlled by heater and magnetic driven pump keeps high precision in temperature and uniformity.
- ⊕ From -40°C or -20°C to 90°C , $\pm 0.2^{\circ}\text{C}$ accuracy, $\pm 0.3^{\circ}\text{C}$ uniformity.
- ⊕ Digital PID Controller enables $\pm 0.1^{\circ}\text{C}$ resolution.
- ⊕ Over temperature protection, alarm, timer, auto-tuning and inbuilt temperature calibration functions.
- ⊕ Stainless steel 304 bath is corrosion resistant easy to clean and maintain.
- ⊕ Magnetic driven pump is ABS material which is corrosion resistant for life time repeated usage.
- ⊕ Pump assembly circulates water up to 20 litres/minute at high pressure up to 450 mbar.
- ⊕ Stainless steel flat lid included.

Technical Specifications and Ordering Information

Model No		LLCC-35C
Bath Capacity		35L
Temperature	Heating Type	Direct heating by immersed stainless steel incolony heater with circulation
	Range	$-20^{\circ}\text{C} \sim 90^{\circ}\text{C}$
	Accuracy	$\pm 0.2^{\circ}\text{C}$ at -10.0°C
	Uniformity	$\pm 0.3^{\circ}\text{C}$ at -10.0°C
Control	Main Controller	Digital PID Controller
	Wait-off Timer	mm:ss /hh:mm /Continuous selectable
	Sensor	Pt 100 Ω
Safety Device	Temperature	Hydraulic over temperature protection safety device
	Electrical	Electrical circuit breaker
Dimensions (W x D x H) mm	Inner	400 x 350 x 250
	Clearance	500 x 680 x 840
	Outer	500 x 645 x 770
Material	Bath	Stainless steel HL (AISI304)
	External	Steel 1T with epoxy powder coating
	Lid	Stainless steel lid included
Circulation Pump	Magnetic driven pump/Internal and External/Capacity 20 litre/min/450mbar	
Catalog No.	11150501	



43040 Christy St., Fremont, CA 94538 USA,

Toll Free : (877) 620 9992

Tel. : (925) 271 4322,

Fax : (925) 886 0400

Email : info@labnics.com

Website : www.labnics.com