

Analog Water Bath

- ❑ Easy to use, Economic Model
- ❑ Precise Temperature Control up to 99°C
- ❑ Built-in Safety and Convenience
- ❑ Three Models with Capacities from 6 to 22 l
- ❑ Seamless Stainless Steel Bath (SUS304)



Feature

Economic and Durable

general purpose water baths are ideal for industrial, pharmaceutical, clinical and biomedical use.

Precision Analog Controller

maintain water temperature from ambient +5°C to 99°C with $\pm 3.0^\circ\text{C}$ uniformity

Seamless Stainless Steel

corrosion resistant (SUS304) bath

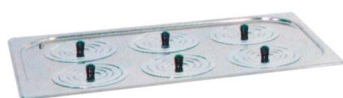
Over Temperature Protection

ensure user safety

Perforated Sample Tray

protects heater and sensor from unexpected damages

Optional Accessories



Ring cover (LWB-R6)



Ring cover (LWB-R8)




Gabled Lid



Test Tube Rack

MODEL		LWB-206A	LWB-211A	LWB-222A
Dimensions (W x D x H mm)	Inner	300 x 155 x 150	300 x 240 x 150	500 x 295 x 150
	Outer	327 x 178 x 280	327 x 265 x 280	537 x 327 x 280
Capacity		6l	11l	22l
Heater		500W	700W	1400W
Temperature	Range	Ambient + 5°C to 99°C		
	Set Accuracy	$\pm 0.5^\circ\text{C}$		
	Uniformity	$\pm 3.0^\circ\text{C}$		
Material	Interior	Seamless Stainless Steel (SUS304)		
	Exterior	Powder Coated Steel		
Safety		Over Temp. Cut-Off		
Electric Supply		110V 60Hz or 220V 50/60Hz		

 Custom made order is available
Specifications can be changed without prior notice for quality improvement.

Digital Water Bath

- Microprocessor PID Control for 0.1°C Precision
- Timer, Alarm, Auto-Tuning Function
- Built-in Safety and Convenience
- Three Models with capacities from 6 to 22 ℓ
- Seamless Stainless Steel Bath (SUS304)



Platinum Model (Option)



Feature

Precision Digital PID Controller

provides $\pm 1.0^\circ\text{C}$ uniformity, $\pm 0.1^\circ\text{C}$ accuracy, temperature range from ambient $+5^\circ\text{C}$ to 99°C . Front mount touch-sensitive membrane type keypad controller with timer, alarm and auto-tuning function.

Seamless Stainless Steel

corrosion resistant (SUS304) bath

Various Application

precision digital water baths are ideal for industrial, pharmaceutical, clinical and biomedical experiments needs precision temperature control

Over Temperature Protection

ensure user safety

Perforated Sample Tray

protects heater and sensor from unexpected damage

Optional Accessories



Ring cover (LWB-R6)



Ring cover (LWB-R8)




Gabled Lid



Test Tube Rack

MODEL		LWB-106D	LWB-111D	LWB-122D
Dimensions	Inner	300 x 155 x 150	300 x 240 x 150	500 x 295 x 150
	(W x D x H mm) Outer	327 x 178 x 280	327 x 265 x 280	537 x 327 x 280
Capacity		6ℓ	11ℓ	22ℓ
Heater		500W	700W	1400W
Temperature	Range	Ambient + 5°C to 99°C		
	Set Accuracy	± 0.1°C		
	Uniformity	± 1.0°C		
Material	Interior	Seamless Stainless Steel (SUS304)		
	Exterior	Powder Coated Steel		
Safety		Over Temp. Cut-Off		
Electric Supply		110V, 60Hz or 220V, 50/60Hz		

 Custom made order is available
Specifications can be changed without prior notice for quality improvement.

Multi Chamber Water Bath



LWB-311DC Multi-Chamber Water Bath
with Circulation Option*

- ❑ Three Chambers have Independent Controls for Operating at Different Temperatures
- ❑ Microprocessor PID Control for 0.1 °C Accuracy
- ❑ Timer, Alarm, Auto-Tuning Function
- ❑ Precise Temperature Control up to 99 °C
- ❑ Built-in Safety and Convenience
- ❑ Seamless Stainless Steel Bath (SUS304)

Feature

3 Bath Chamber Models

have independent controls for operating at different temperatures, ideal for industrial, pharmaceutical, clinical and biomedical use.

Drain Valve

let you easily drain off water from each bath

Seamless Stainless Steel

corrosion resistant (SUS304) bath

Precision Digital PID Controller

provides $\pm 1.0^{\circ}\text{C}$ uniformity, $\pm 0.1^{\circ}\text{C}$ accuracy, temperature range from ambient $+5^{\circ}\text{C}$ to 99°C .

Easy-to-use membrane touch type front mount controller with timer, alarm and auto-tuning function.

Over Temperature Protection

& over current, leakage breaker ensure user safety



Dual Water Bath

MODEL		LWB-211D	LWB-311D
Dimensions	Inner	320 x 245 x 150 x 2 baths	302 x 240 x 150 x 3 baths
	(W x D x H mm) Outer	600 x 450 x 350	969 x 450 x 350
Capacity		11ℓ x 2 baths	11ℓ x 3 baths
Temperature	Range	Ambient $+5^{\circ}\text{C}$ to 99°C	
	Set Accuracy	$\pm 0.1^{\circ}\text{C}$	
	Uniformity	$\pm 1.0^{\circ}\text{C}$ (Circulation)	
Heater		700W x 2 baths	700W x 3 baths
Controller		Digital PID Controller x 3 Baths	
Display		LED 4 Digit Display	
Timer		99hr 59min / continuous x 3 baths	
Material	Interior	Seamless Stainless Steel (SUS304)	
	Exterior	Powder Coated Steel	
Safety		Over Temp. Cut-Off	
Electric Supply		110V 60Hz or 220V 50/60Hz	

Optional Accessories



Gabled Lid



Test Tube Rack

*Model : LWB-311DC with built-in magnetic stirring device



Model LOB-506D Digital Oil Bath

- ❑ Microprocessor PID Control for 1.0°C Precision Temperature Control from ambient +5°C to 300°C
- ❑ Timer, Alarm, Auto-Tuning Function
- ❑ Built-in Safety and Convenience
- ❑ Three Models with Capacities from 6 to 22 ℓ
- ❑ 1.2 mm Thick Seamless Stainless Steel Bath (SUS304) with Ceramic Fiber Insulation

Feature

Precision Digital PID Controller

provides $\pm 1.0^\circ\text{C}$ set accuracy, $\pm 3.0^\circ\text{C}$ uniformity, temperature range from ambient +5°C to 300°C.

Touch-sensitive membrane type front mount controller with timer, alarm and auto-tuning function.

Stainless Steel & Ceramic Fiber

1.2 mm thickness corrosion resistant (SUS304) bath and ceramic fiber stands high temperature

Over Temperature Protection

& over current, leakage breaker ensure user safety



MODEL		LOB-506D	LOB-511D	LOB-522D
Dimensions (W x D x H mm)	Inner	300 x 155 x 150	300 x 220 x 170	400 x 300 x 170
	Outer	560 x 320 x 365	560 x 370 x 381	700 x 470 x 381
Capacity		6ℓ	11ℓ	22ℓ
Temperature	Range	Ambient + 5°C to 300°C		
	Set Accuracy	$\pm 1.0^\circ\text{C}$		
	Uniformity	$\pm 3.0^\circ\text{C}$		
Heater		2.0kW	2.5kW	3.0kW
Controller		Digital PID Controller		
Display		LED 4 Digit Display		
Timer		99hr 59min / continuous		
Material	Interior	Seamless Stainless Steel (SUS304)		
	Exterior	Powder Coated Steel		
	Insulation	Ceramic Fiber 50mm Thickness		
Safety		Over Temp. Cut-Off		
Electric Supply		110V 60Hz or 220V 50/60Hz		



Custom made order is available
Specifications can be changed without prior notice for quality improvement.



Model LVB-630S Viscosight Bath



LCB-600 (Option)
Holder for Viscometer

- ❑ Microprocessor PID Control for 0.1°C Precision Temperature Control from ambient to 99°C
- ❑ Front Mount Glass Window for Sample View
- ❑ Timer, Alarm, Auto-Tuning Function
- ❑ Built-in Safety and Convenience
- ❑ Two Models with Capacities 30 ℓ and 52 ℓ
- ❑ Powerful Circulation Pump with 30 ℓ/min Capacity enhances Temperature Uniformity
- ❑ Adjustable Stainless Steel Shelf

Feature

Precision Digital PID Controller

provides $\pm 0.1^\circ\text{C}$ accuracy and $\pm 0.2^\circ\text{C}$ uniformity, temperature range from ambient $+5^\circ\text{C}$ to 99°C .

Touch-Sensitive membrane type front mount controller with timer, alarm and auto-tuning function.

Stainless Steel Bath

corrosion resistant (SUS304) bath and durable powder coated body

Over Temperature Protection

& over current, leakage breaker ensure user safety


Front & Rear Glass Window

provides side-view in the water bath, vacuum sealed tempered safety pair glass

Powerful Circulation Pump

with 30 ℓ /min and 4.3 meters maximum height enhance temperature uniformity of the bath, circulation both inside and outside

MODEL		LVB-630SP	LVB-650SP
Controller		Programmable controller (Optional RS-232C PC Interface)	
MODEL		LVB-630S	LVB-650S
Dimensions (W x D x H mm)	Inner	320 x 245 x 150	302 x 240 x 150
	Outer	600 x 450 x 350	969 x 450 x 350
Capacity		30ℓ	52ℓ
Temperature	Range	Ambient $+5^\circ\text{C}$ to 99°C	
	Set Accuracy	$\pm 0.1^\circ\text{C}$	
	Uniformity	$\pm 0.2^\circ\text{C}$	
Heater		2kW	3kW
Controller		Digital PID Multi-Function Controller	
Display		LED 4 Digit Display	
Timer		99hr 59min / continuous	
Pump		Magnetic Drive Max. Flow : 30ℓ / min Max Height : 4.3meters	
Material	Interior	Seamless Stainless Steel (SUS304)	
	Exterior	Powder Coated Steel	
	Window	Vacuum Sealed Tempered Safety Pair Glass	
Safety		Over Current & Leakage Breaker Over Temp. Cut-Off	
Electric Supply		110V 60Hz or 220V 50/60Hz	

 Custom made order is available
Specifications can be changed without prior notice for quality improvement.

Cooling Viscosight Bath



Feature

Precision Digital PID Controller

provides $\pm 0.1^\circ\text{C}$ accuracy and $\pm 0.2^\circ\text{C}$ uniformity, temperature range from -10°C to 90°C .

Touch-Sensitive membrane type front mount controller with timer, alarm and auto-tuning function.

Powerful Circulation Pump

with 30 ℓ /min and 4.3 meters maximum height enhance temperature uniformity of the bath, circulation both inside and outside

Stainless Steel Bath

corrosion resistant (SUS304) bath and durable powder coated body


Over Temperature Protection

& over current breaker ensure user safety

Front & Rear Glass Window

provides side-view in the water bath, vacuum sealed tempered safety pair glass

MODEL		LVB-631R	LVB-651R
Controller		Digital PID Controller	
MODEL		LVB-632RP	LVB-652RP
Controller		Programmable controller (Optional RS-232C PC Interface)	
Dimensions (W x D x H mm)	Inner	350 x 300 x 300	500 x 300 x 350
	Outer	600 x 400 x 715	750 x 400 x 780
Capacity		30 ℓ	52 ℓ
Temperature	Range	-10°C to 90°C	
	Set Accuracy	$\pm 0.1^\circ\text{C}$	
	Uniformity	$\pm 0.2^\circ\text{C}$	
Heater		2kW	3kW
Refrigerant		1 / 4HP	1 / 2HP
Pump		Magnetic Drive Max. Flow : 30 ℓ / min Max Height : 4.3meters	
Material	Interior	Seamless Stainless Steel (SUS304)	
	Exterior	Powder Coated Steel	
	Window	Vacuum Sealed Tempered Safety Pair Glass	
Safety		Over Current & Leakage Breaker Over Temp. Cut-Off	
Electric Supply		110V 60Hz or 220V 50/60Hz	

 Custom made order is available
Specifications can be changed without prior notice for quality improvement.

Extraction (COD) Water Bath



Model LEB-104A Extraction Bath

- Digital and Analog, 1 to 12 Flask Model
- Digital PID Control for 0.1°C Precision Temperature Control from ambient to 99°C (Digital Model)
- Built-in Safety and Convenience
- Concentric Ring Cover
- Stainless Steel (SUS304) Bath and Stand

Feature

Ideal for Gentle Extraction

work for soxhlet extraction and determination of COD

High Quality Stainless Steel

Bath and stand provides durability

Concentric Ring Cover

sets makes effective steaming work

Wide Variety of Choice


analog and digital model, one to twelve extraction hole

Over Temperature Protection

ensure user safety

Digital Temperature Controller		LEB-104D	LEB-106D	LEB-108D	LEB-112D
Analog Temperature Controller		LEB-204A	LEB-206A	LEB-208A	LEB-212A
Dimensions (W x D x H mm)	Inner	620 x 160 x 130	920 x 160 x 130	620 x 320 x 130	920 x 320 x 130
	Outer	682 x 310 x 320	982 x 310 x 320	682 x 470 x 320	982 x 470 x 320
Capacity		12ℓ	19ℓ	25ℓ	38ℓ
Temperature	Range	Ambient +5°C to 99°C			
	Set Accuracy	Analog Model ±1.0°C		Digital Model ±0.1°C	
	Uniformity	Analog Model ±3.0°C		Digital Model ±1.0°C	
Heater		2kW		3kW	
Controller		Digital PID Multi-Function Controller (Digital model only)			
Display		LED 4 Digit Display (Digital model only)			
Timer		99hr 59min / continuous (Digital model only)			
Material	Interior	Stainless Steel			
	Exterior	Powder Coated Steel			
	Stand	Stainless Steel Frame			
No. of Extraction Holes		4	6	8	12
Top Opening Diameter		∅ 110 mm			
Safety		Over Temp. Cut-Off			
Electric Supply		110V, 60Hz or 220V, 50/60Hz			

*LEB-100L : Water level device (option)

 Custom made order is available
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Immersion Bath Circulator



Feature

Precision Digital PID Controller

provides $\pm 0.3^{\circ}\text{C}$ uniformity and $\pm 0.1^{\circ}\text{C}$ set accuracy, temperature range from ambient $+5^{\circ}\text{C}$ to 99°C .

Easy-to-use controller with reliable temperature compensation and setting

Various Application

precision immersion bath circulators are ideal for industrial, pharmaceutical, clinical and biomedical experiments needs precision temperature control

Seamless Stainless Steel

corrosion resistant (SUS304) bath durability

- ❑ Microprocessor PID Control for 0.1°C Precision
- ❑ Built-in Safety and Convenience
- ❑ Three Models with capacities from 6 to 22ℓ
- ❑ Seamless Stainless Steel Bath (SUS304)
- ❑ Powerful Circulation Pump

Over Temperature Protection

ensure user safety

Powerful Circulation Pump

keep uniform temperature of the bath and can be used external circulation

MODEL		LCB-6D	LCB-11D	LCB-22D
Dimensions (W x D x H mm)	Bath	300 x 155 x 150	300 x 240 x 150	500 x 295 x 150
	Overall	330 x 182 x 383	330 x 270 x 383	530 x 330 x 418
	Top	160 x 155	160 x 240	310 x 295
Capacity		6ℓ	11ℓ	22ℓ
Temperature	Range	Ambient $+5^{\circ}\text{C}$ to 99°C		
	Set Accuracy	$\pm 0.1^{\circ}\text{C}$		
	Uniformity	$\pm 0.3^{\circ}\text{C}$		
Heater		1.5kW	2kW	2.5kW
Controller		Digital PID Controller		
Display		4 Digit LED Display		
Pump		Internal & External Circulation Pump, 7ℓ / min		
Sensor		pt 100 Ω		
Material	Interior	Seamless Stainless Steel (SUS304)		
	Exterior	Powder Coated Steel		
Safety		Adjustable Over Temp. Cut-Off		
Electric Supply		110V 60Hz or 220V 50/60Hz		



Optional Accessories



Gabled Lid

Shaking Water Bath



- ❑ Quiet shaking Mechanism
- ❑ Universal Rack takes Flask from 50mℓ up to 2000mℓ
- ❑ PID Temperature Control up to 99℃
- ❑ Shakes from 20 to 250 rpm Digital Speed Control
- ❑ Three Models with Bath Capacities 22ℓ, 30ℓ and 45ℓ
- ❑ Stainless Steel Bath (SUS304)

Feature

Digital PID Controller

provide $\pm 0.1^\circ\text{C}$ accuracy, $\pm 0.5^\circ\text{C}$ uniformity temperature range from ambient $+5^\circ\text{C}$ to 99°C , touch-sensitive membrane type control panel

High Quality Stainless Steel

corrosion resistant (SUS304) bath

Quiet Shaking Mechanism

electronically controlled shaking mechanism provides noiseless reciprocal motion and precise speed control from 20 to 250 rpm, perfect for long time use

Over Temperature Protection

and over current protection capability ensure user safety

Universal Spring Rack

accommodates various sized flask from 50mℓ to 2000mℓ and all kinds of tube racks

MODEL		LSB-015S	LSB-030S	LSB-045S
Dimensions	Bath	300 x 300 x 240	500 x 300 x 240	570 x 370 x 240
	Outer	534 x 344 x 300	734 x 344 x 300	804 x 424 x 300
Capacity		22ℓ	30ℓ	45ℓ
Temperature	Range	Ambient $+5^\circ\text{C}$ to 99°C		
	Set Accuracy	$\pm 0.1^\circ\text{C}$		
	Uniformity	$\pm 0.5^\circ\text{C}$		
Shaking	Speed	20 to 250 Stroke / min		
	Stroke	Adjustable 15 to 30 min		
Heater		1.4kW	2.1kW	2.5kW
Controller		Digital PID Controller		
Display		LED 4Digit Display		
Timer		99hr 59 min / continuous		
Material	Interior	Seamless Stainless Steel (SUS304)		
	Exterior	Powder Coated Steel		
	Rack	Stainless Steel Spring Rack		
Safety		Over Temp. Cut-Off		
Electric Supply		110V 60Hz or 220V 50/60Hz		

Optional Accessories



Gabled Lid



Test Tube Rack

Refrigerated Bath Circulator



- ❑ **Precise PID Temperature Control** from -30°C to 99°C
- ❑ **Built-in safety Feature and Easy-to-Use**
- ❑ **Various Selection Capacities** from 8ℓ to 30ℓ
- ❑ **CFC Free Refrigerant**
- ❑ **Powerful Circulation Pump**

High Quality Stainless Steel

corrosion resistant (SUS304) bath and insulation and easy to maintenance with movable casters

Over Temperature Protection

and over cooling, over current protection capability ensure user safety and protect cooler from damage

Feature

Microprocessor PID Controller

provides $\pm 1.0^{\circ}\text{C}$ accuracy, $\pm 0.5^{\circ}\text{C}$ uniformity, temperature range from -30°C to 99°C , 10 step temperature programming 99 cycle function. (Programmable only)

Powerful Circulation Pump

with $7\ell/\text{min}$ and 4.3 meters maximum height enhance temperature uniformity of the bath, circulation both inside and out side of the bath

MODEL		LCP-R108	LCP-R113	LCP-R120	LCP-R130
Controller		Programmable controller (Optional RS-232L PC Interface)			
MODEL		LCB-R08	LCB-R13	LCB-R20	LCB-R30
Dimensions (W x D x H mm)	Bath	170 x 320 x 150	250 x 350 x 150	320 x 320 x 180	400 x 350 x 220
	Top	170 x 150	250 x 160	320 x 160	350 x 200
	Overall	235 x 440 x 645	320 x 440 x 750	380 x 460 x 800	505 x 605 x 830
Capacity		8ℓ	13ℓ	20ℓ	30ℓ
Temperature	Range	-30 to 99°C			
	Set Accuracy	$\pm 0.1^{\circ}\text{C}$			
	Uniformity	$\pm 0.5^{\circ}\text{C}$			
Heater		1kW	1kW	1.5kW	2kW
Refrigerant		1 / 4HP	1 / 4HP	1 / 2HP	3 / 4HP
Controller		Digital PID Multi-Function Controller			
Display		LED 4 Digit Display			
Pump		Magnetic Drive Circulation Pump, Max. Flow $7\ell/\text{min}$ Max. Height 4.3 meters			
Material	Interior	Stainless Steel			
	Exterior	Powder Coated Steel			
Safety		Over Temp. Cut-Off, OvCurrent and Leakage Breaker			
Electric Supply		110V 60Hz or 220V 50/60Hz			



Custom made order is available
Specifications can be changed without prior notice for quality improvement.



Feature

Multi-Purpose for Application

Universal Chiller for various application from 10 liters to 60 liters circulation capacity

Utility Devices

Various inlet and outlet liquid flow devices can be assembled by user demands

Microprocessor PID Controller

provides $\pm 0.3^{\circ}\text{C}$ uniformity, $\pm 0.1^{\circ}\text{C}$ accuracy, temperature range from -30°C to 90°C , Touch-sensitive membrane type control panel with timer, alarm, auto-tuning

High Quality Stainless Steel

corrosion resistant (SUS304) bath and insulation and easy to maintenance with movable casters

Over and Low Temperature Protection


and over cooling, over current protection capability ensure user safety and protect cooler from damage

Powerful Circulation Pump

with 7ℓ/min and 4.3 meters maximum height enhance temperature uniformity of the bath, circulation both inside and out side of the bath

- Economic Model for small heat load application
- Precise PID Temperature Control from -30°C to 90°C
- Built-in safety Feature and Easy-to-Use
- Stainless Steel Bath (SUS304)
- CFC Free Refrigerant
- Powerful Circulation Pump

MODEL		LCP-R210	LCP-R220	LCP-R230	LCP-R240	LCP-R260
Controller		Programmable controller (Optional RS-232L PC Interface)				
MODEL		LCC-R110	LCC-R120	LCC-R130	LCC-R140	LCC-R160
Dimensions (W x D x H mm)	Bath	240 x 200 x 200	300 x 250 x 250	330 x 340 x 250	390 x 390 x 280	390 x 390 x 400
	Top	190 x 170	250 x 190	270 x 270	340 x 340	340 x 340
	Overall	360 x 490 x 680	410 x 500 x 800	500 x 600 x 800	500 x 670 x 885	500 x 665 x 1020
Capacity		10ℓ	19ℓ	28ℓ	42ℓ	60ℓ
Temperature	Range	-30°C to 90°C				
	Set Accuracy	$\pm 0.1^{\circ}\text{C}$				
	Uniformity	$\pm 0.5^{\circ}\text{C}$				
Heater		700W	1kW	1.5kW	2kW	3kW
Refrigerant		1 / 4HP	1 / 3HP	3 / 4HP	3 / 4HP	1HP
Controller		Digital PID Controller				
Display		LED 4 Digit Display				
Pump		Magnetic Pump, Max. Flow 7ℓ/min Max. Height 4.3 meters		Magnetic Pump, Max. Flow 25ℓ/min Max. Height 2.6 meters		
Material	Interior	Stainless Steel				
	Exterior	Powder Coated Steel				
Safety		Over Temp. Cut-Off, Over Current and Leakage Breaker				
Electric Supply		110V 60Hz or 220V 50/60Hz				

 Custom made order is available
Specifications can be changed without prior notice for quality improvement.



Feature

Microprocessor PID Controller

provides $\pm 0.5^\circ\text{C}$ uniformity, $\pm 0.1^\circ\text{C}$ accuracy, temperature range from -30°C to 90°C , Touch-sensitive membrane type control panel with timer, alarm, auto-tuning

High Quality Stainless Steel

corrosion resistant (SUS304) bath and insulation and easy to maintenance with movable casters

Over Temperature Protection

and over cooling, over current protection capability ensure user safety and protect cooler from damage

Powerful Circulation Pump

with 30ℓ/min and 4.3 meters maximum height enhance temperature uniformity of the bath, circulation both inside and out side of the bath

- ❑ Ultra Low Temperature up to -60°C
- ❑ Precise PID Temperature Control from -60°C to 90°C
- ❑ Built-in safety Feature and Easy-to-Use
- ❑ Cascade Refrigeration System
- ❑ CFC Free Refrigerant

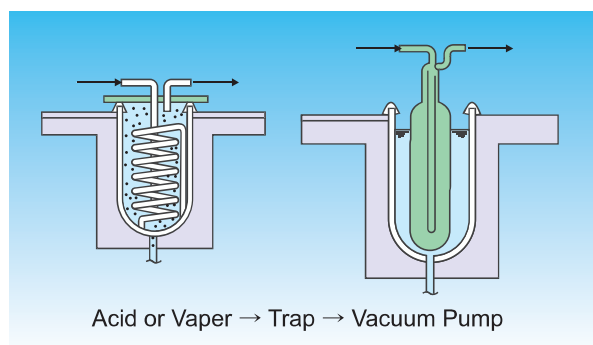
The **Labtech Ultra Low Cooling Bath Circulator** is a very durable and reliable system with an extremely low noise level (around 50dBA). This low noise level is created by a very efficient and effective use of the cascade compressor system with **non CFC refrigerants**



MODEL		LCC-R212U	LCC-R220U	LCC-R230U
Dimensions (W x D x H mm)	Bath	260 x 320 x 150	260 x 400 x 200	340 x 450 x 200
	Top	260 x 150	260 x 230	340 x 230
	Overall	470 x 720 x 1000	470 x 720 x 1000	470 x 720 x 1100
Capacity		12ℓ	20ℓ	30ℓ
Temperature	Range	-60°C to 90°C		
	Set Accuracy	$\pm 0.1^\circ\text{C}$		
	Uniformity	$\pm 0.5^\circ\text{C}$		
Heater		1.0kW	1.5kW	2kW
Refrigerant		1 / 2HP - 3 / 4HP	3 / 4HP - 3 / 4HP	3 / 4HP - 1HP
Controller		Digital PID Controller		
Display		LED 4 Digit Display		
Pump		Magnetic Pump, Max. Flow 25ℓ/min Max. Height 2.6 meters		
Material	Interior	Stainless Steel		
	Exterior	Powder Coated Steel		
Safety		Over Temp. Cut-Off, Over Current and Leakage Breaker		
Electric Supply		110V 60Hz or 220V 50/60Hz		



- Digital PID Controller, -25°C and -40°C Model
- 4ℓ Chamber Capacities
- LED Digital Temperature Display
- Over Current Breaker, Complete Safety Devices
- Durable Stain Steel Bath and Powder Coated Body



Feature

Vapor Collection

Ideal for collecting evaporation vapor or hazardous vapor from vacuum line

Digital PID Controller

provide temperature range down to -25°C or 40°C

Easy-to-Use

Device for melting ice and drain from chamber

Stainless Steel Bath

corrosion resistant stainless steel bath and powder coated body

Over Current Protection

and leakage protection device ensure user safety

MODEL		LCT-105	LCT-109
Dimensions (W x D x H mm)	Inner	∅ 200 x H 215	∅ 200 x H 215
	Outer	370 x 500 x 680	470 x 560 x 700
Capacity		4.0ℓ	4.0ℓ
Temperature		Max -25°C	Max -40°C
Refrigerator		1 / 4HP	1 / 2HP
Material	Interior	Stainless Steel	
	Exterior	Powder Coated Steel	
	Cover	Stainless Steel	
	Insulation	Polyurethane Foam	
Electric Supply		110V 60Hz or 220V 50/60Hz	



Ultrasonic cleaning is faster, more thorough and safer than any other method—scrubbing, soaking, steam and so on. Ultrasonic sound waves moving through a cleaning solution an effect called cavitation, the rapid formation and implosion of microscopic bubbles. Heat enhances the process. The deep cleaning action of ultrasonic removes even the most stubborn dirt and contaminants.

Feature

- ❑ Built-in micro process controller
- ❑ Furnishing all information - ultrasonic power, set time, elapsed time, set temperature, current temperature, heater operation status and so on for optimum conditions / operations status
- ❑ Selectable use with ultrasonic and timer to set a optimum condition for cleaning
Built-in a digital thermometer and timer to set a optimum condition for cleaning
Easy to read operation status on digital display (400 series)
- ❑ Built-in drain valve unit
- ❑ Three model case on engineering plastic molds



MODEL		LUC-405	LUC-410	LUC-420
Dimensions (W x D x H mm)	Inner	300 x 155 x 150	300 x 240 x 150	500 x 300 x 150
	Outer	500 x 285 x 255	510 x 375 x 275	720 x 450 x 275
Capacity		5.7ℓ	10ℓ	20.7ℓ
Temperature	Range		0 - 50°C (digital)	
Display			Digital Display	
Timer			0 - 99min (digital)	
Transducer			Industrial BLT Type	
Housing			Engineering Plastic	
Frequency			40 KHz	
Net Weight		7Kg	9Kg	14Kg
Electric Supply			110V 60Hz or 220V 50/60Hz	

Custom made order is available
Specifications can be changed without prior notice for quality improvement.

Features of separate type

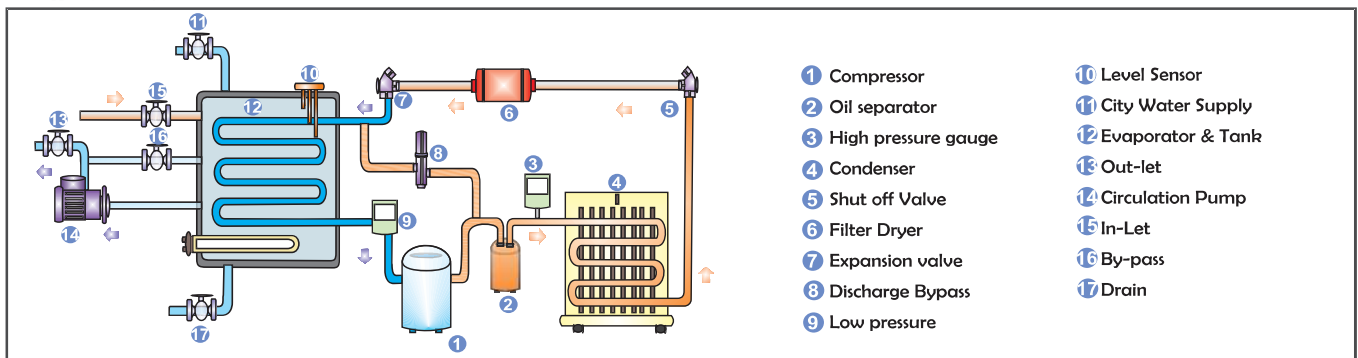
- Remarkable cooling system that eliminate completely uncomfortable working condition caused by humidity and high internal temperature during the summer
- Compact internal structure makes it possible to install under any condition

Features of package type

- Using for cooling like temperature exchange, medical instrument, instron, large rotary evaporator, laser machinery.
- High quality stainless steel
- Applicable for small space and convenient mobile caster
- Green lamp (DC/24V) is installed for easy check on operation status
- Red lamp with buzzer alarm at malfunction




Flow Sheet



MODEL	LCH-101A	LCH-102A	LCH-103A	LCH-105A	LCH-107A	LCH-110A
Dimension (W x D x H mm)	600 x 750 x 950	600 x 750 x 950	600 x 750 x 950	800 x 910 x 1250	900 x 1000 x 1250	900 x 1000 x 1350
Output Compressor kW(HP)	0.75(1)	1.5(1)	2.2(3)	3.75(5)	5.5(7.5)	7.5(10)
Output of pump kW	0.4	0.4	0.75	0.75	0.75	1.5
Temperature Range	-5°C ~ 90°C					
Flow rate (ℓ/min)	10(13)	20(24)	30(36)	50(60)	70(80)	100(120)
Reservoir tank (ℓ)	30	40	50	100	130	150
Cooling capacity (kcal/hr)	2500~2800	5000~5600	7500~8400	12500~14000	18750~21000	25000~28000
Electric Supply	AC 1PH 220V, 50/60Hz			AC 3PH 380V, 440V, 460V, 50/60Hz		

MODEL	LLC-001A	LLC-002A	LLC-003A	LLC-005A	LLC-007A	LLC-010A
Dimension (W x D x H mm)	600 x 750 x 950	600 x 750 x 950	600 x 750 x 950	800 x 910 x 1250	900 x 1000 x 1250	900 x 1000 x 1350
Output Compressor kW(HP)	0.75(1)	1.5(1)	2.2(3)	3.75(5)	5.5(7.5)	7.5(10)
Output of pump kW	0.4	0.4	0.75	0.75	0.75	1.5
Temperature Range	10°C ~ 25°C					
Flow rate (ℓ/min)	10(13)	20(24)	30(36)	50(60)	70(80)	100(120)
Reservoir tank (ℓ)	30	40	50	100	130	150
Cooling capacity (kcal/hr)	2500~2800	5000~5600	7500~8400	12500~14000	18750~21000	25000~28000
Electric Supply	AC 1PH 220V, 50/60Hz			AC 3PH 380V, 440V, 460V, 50/60Hz		

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