



## **Low Circulator Bath LLCB-100 Series**



Labocon Low Circulator Bath LLCB-100 Series configured with PID control temperature it precisely maintains temperature ranging from -20°C to 95°C. This multi-functional circulator is ideal for constant temperature and auxiliary heating or cooling experiments.

## **Features**

- Circulator applies high quality cold rolling plate with Dupont powder.
- The interior applies SUS304 stainless steel.
- Combined use of refrigerator and heater makes the temperature range wider and more accurate.
- High precision temperature control can be conducted.
- Strong external circulation and cooling capacity.
- Condenser coil designed around for guaranteeing the even temperature inside the incubator.
- Fuzzy logistic PID control, high brightness LCD, which is able to display time, date and system information for facilitating the operation.
- Special interface for PC. Test program is written, monitored and saved with special PC software. Test data is directly displayed and printed.
- Air filter installed to air intake at the bottom of the control panel, so as it effectively prevent suction of ash and maintain the internal part clean.
- Fluid can be discharged easily for cleaning and maintenance.
- Easy to maintain and clean condenser to improve the refrigerating performance and to save energy.
- Professional mechanical design is applied to improve the comfort.
- Devices for electrical leakage protection, power down recovery, upper and lower limit alarm of temperature, etc. are provided to guarantee safety of operation.

## **Application**

Labocon Low Circulator Bath LLCB-100 Series is widely applied for low temperature cooling and temperature control of hot parts of machines used for research, analysis and measuring equipment and industrial mechanical equipment in pharmaceutical, chemical, medical and scientific research fields.

## Specification

Model no.	LLCB-101	LLCB-102	LLCB-103
Capacity	6 L	8.8 L	15.6 L
Max. Flow Rate (L/min)	5 optional Flow Rate of 10L/min, 15L/min, 20L/min		
Max Lift	1.5 m	1.5 m	1.5 m
Temperature Range	-20°C to 95°C	-20°C to 95°C	-20°C to 95°C
Working Temperature	5°C to 35°C	5°C to 35°C	5°C to 35°C
Temperature Display Accuracy	0.1°C	0.1°C	0.1°C
Temperature Control Accuracy	± 0.1°C	± 0.1°C	± 0.1°C
Temperature Control	Fuzzy logistic PID method	Fuzzy logistic PID method	Fuzzy logistic PID method
Refrigerant	R134a	R134a	R404A
Inner Dimension (WxDxH)	152x262x153 mm	152x302x193 mm	187x392x213 mm
Overall Dimension (WxDxH)	297x550x750 mm	297x590x770 mm	413x705x790 mm
Power	320 W	400 W	628 W
Power Supply	AC-220V 50/60 Hz	AC-220V 50/60 Hz	AC-220V 50/60 Hz
Weight	32 kg	36 kg	45 kg
Catalog No.	9501393472	9501392472	9501391472