

Low Constant Temperature Water Bath

BBL101/301

Model	
101	301
Operating Temperature Range	
-10deg.C to +80deg.C	
Temp. Distribution Accuracy	
±0.3deg.C	
Bath Capacity	
8L	13L

FEATURES

- Desk Top Type
- Wider Operating Temp. Range and Sufficient Water Bath Space
- Inner/External Circulation can be changed easily
- Can choose Shelf Height up to 2 steps
- Capable for small container, too
- With auto start and auto stop operation, RS485 communication function, temperature output terminal (4-20mA) also standard equipped.

Control Panel



Monitoring Indicator for Pump and Refrigerator



Max. Q'ty for Erlenmeyer Flask

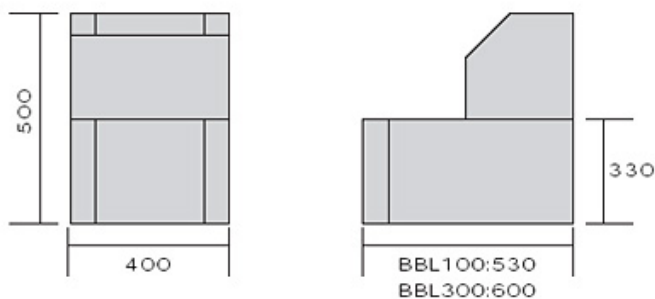
Model	300ml	500ml	1,000ml
BBL101	3pcs.	2pcs.	N/A
BBL301	5pcs.	3pcs.	2pcs.



Usage example



Size (mm)



Side View



Specifications

Model	BBL100	BBL300
■ Performance		
Circulation Type	Pump Circulation Cooling / Closed System Circulation	
Operating Temp. Range	-10 to +80deg.C (at Room Temp. 20deg.C)	
Temp. Adjustment Accuracy	±0.1deg.C	
Temp. Distribution Accuracy	±0.3deg.C	
Cooling Capacity (at Liquid Temp. 15deg.C)	Approx. 370W (320Kcal/h)	Approx. 410W (350Kcal/h)
■ Components		
Temp. Control System	PID Control by Micro Computer	
Operating Function	Fixed Operation, Automatic Stop Operation, Automatic Start Operation	
Temp. Sensor	Pt100Ω(for Temp. Control) + K-thermocouple (for Overheat Preventor) (Double Sensor)	
Refrigerator / Coolant	160W Cooling Air Closed Type Rotary R134A	300W Cooling Air Closed Type Rotary R404A
Stirring Type	Magnet Pump Type	
Circulation system capacity (50/60Hz)	Maximum flow (pump capacity)	3.7/4.7L/min (11.0/12.0L/min)
	Maximum pump head (pump capacity)	1/1.5m (1.5/2.1m)
Heater	700W	900W
Surrounding Operation Temp. Range	5 to 30deg.C	
■ Safety Device		
Safety Countermeasure	Electric Leakage Breaker for Over Current Protection, Refrigerator Overload Relay, Refrigerator Pressure Detector, Float Switch for Empty Boiling Prevention, Refrigerator Protection Delay Timer Function, Automatic Overheat Prevention, Overheat Preventor, Breakout Protection Function, Key Lock Function	
Other Function	Drain Cock, Condenser Filter, RS485 Communication Function, Temp. Output Terminal, Refrigerator Pressure Switch Indicator, Calibration Off Set Function	
■ Standard		
Water Bath Dimensions	W300 x D150 x H177.5mm	W300 x D240 x H177.5mm
Effective Water Bath Dimensions	W238 x D100 x 85mm	W238 x D190 x H85mm
Bath Capacity	8L	13L
Effective Bath Capacity	6.75L	11.5L
External Dimension	W500 x D530 x H500mm	W502 x D603 x H500mm
Water Bath Height	330mm	330mm
Power	AC100V, 50/60Hz, 9.3A (15A)	AC100V, 50/60Hz, 12.5A (15A)
Weight	Approx. 50kg	Approx. 55kg
Accessory	Bottom Shelf 1pc., Lid 1pc., Drain Horse 0.5m 1pc., Hose for Over Flow 0.5m 1pc., Instruction Manual	

■ Optional items

Description	Model No.	Product Code
External Communication Adapter, RS485-RS232C (conversion)	BBL Series	281387
Shelf for BBL100, With Shelf Support 4pcs.	BBL Series	221586
Shelf for BBL300, With Shelf Support 4pcs.	BBL Series	221587