

Low Constant Temperature Water Bath "Neo-cool Bath"
BB301/401/601



BB301/401/601

Model		
301	401	601
Operating Temperature Range		
-30deg.C to +80deg.C		
Temp. Distribution Accuracy		
±0.3deg.C		
Bath Inner Capacity (Approx.)		
6L	13L	26L

- The Bigger Bath Capacity.
- Precise control with a temperature adjustment accuracy ± 0.1 deg. C.
- Inner/External circulation can be changed easily.
- The height of the shelf can be changed 3 steps, capable for small containers.
- Various fulfilling functions are available. (RS485 Communication Function, Temp. Output Terminal, Calibration Off Set Function)

■ Specifications

Model	BB301	BB401	BB601
Performance			
Operating Temp. Range	-30 deg.C to +80 deg.C		
Temp. Adjustment Accuracy / Temp. fluctuation	±0.1 deg.C (JTM K05) at 20 deg.C	±0.1 deg.C (JTM K05) ±0.6 deg.C (JIS) at 20 deg.C	±0.1 deg.C (JTM K05) ±0.7 deg.C (JIS) at 20 deg.C
Temp. Distribution Accuracy / Temp. gradient	±0.3 deg.C (JTM K05) at 20 deg.C	±0.3 deg.C (JTM K05) ±1.0deg.C (JIS) at 20 deg.C	±0.3 deg.C (JTM K05) ±1.8 deg.C (JIS) at 20 deg.C
Temp. indication unit	0.1 deg.C		
Cooling Capacity	Approx. 420W (361Kcal/h) at 15 deg.C	Approx. 475W (408Kcal/h) at 15 deg.C	Approx. 750W (645Kcal/h) at 15 deg.C
Components			
Temp. Control System	PID Control by Micro Computer		
Operating Function	Fixed Operation, Automatic Stop Operation, Automatic Start Operation		
Temp. Sensor	Double Sensor: Pt Sensor 100Ω (for Temp. Control) + K-thermocouple (for Overheat Prevention)		
Temp. setting/display	Digital setting/display		
Refrigerator / Coolant	300W Air Cooling R404A	350W Air Cooling R404A	600W Air Cooling R404A
Pump Max. Flow (50/60Hz)	2.8/3.2L/min (Water Jet Circulation)		
Pump Max. Lift (50/60Hz)	1.1/1.4m		
Heater	850W		1.2kW
External circulation nozzle	Hose nipple 10.5mm dia. (Outlet and Inlet port)		
Ambient temperature range	5 deg.C to 30 deg.C		
Safety Device			
Safety Countermeasure	Self Diagnosis Function, Electric Leakage Breaker with Over Current Protection, Refrigerator Over Load Relay, Refrigerator Pressure Detector, Float Switch for Empty Boiling, Delay Timer Function for Refrigerator Protection, Automatic Overheat Prevention Function, Key Lock Function, Overheat Preventor		
Other Function	Drain Cock, Condenser Filter, RS485 Communication Function, Temp. Output Terminal, Refrigerator Pressure Indicator, Calibration Off Set Function, Power failure compensation function		
Standard			
Water Bath Dimensions	W150 x D300 x H170mm	W250 x D315 x H190mm	W330 x D435 x H200mm
Effective Water Bath Dimensions	W120 x D140 x H140mm	W220 x D150 x H160mm	W300 x D285 x H170mm
Bath Capacity	6L	13L	26L
External Dimension	W434 x D472 x H883mm	W420 x D550 x H885mm	W440 x D650 x H885mm
Power	AC100V, 50/60Hz, 12A (15A)	AC100V, 50/60Hz, 13.8/12.5 (20A)	AC100V, 20/19A (30A)
Weight	Approx. 46kg	Approx. 65kg	Approx. 80kg
Accessory	Drain hose 0.5m (1pc), Over flow hose 0.5m (1pc), Lid (1pc), Shelf (1pc)		

■ Control Panel



■ Back Side

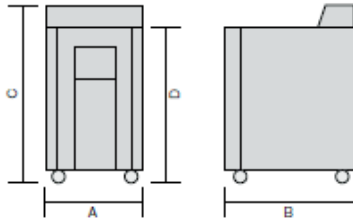


■ Max. Q'ty for Erlenmeyer Flask

Model	300ml	500ml	1,000ml
BB301	1pc.	1pc.	N/A
BB401	3pcs.	2pcs.	2pc.
BB601	9pcs.	5pcs.	4pcs.



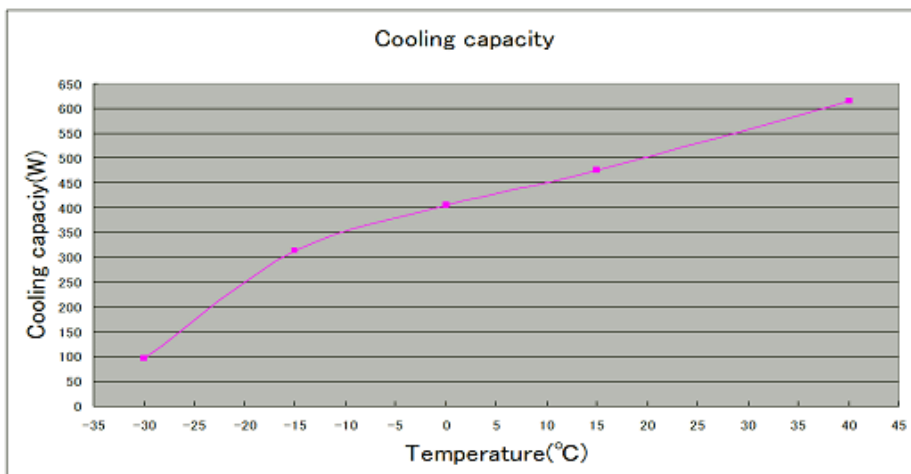
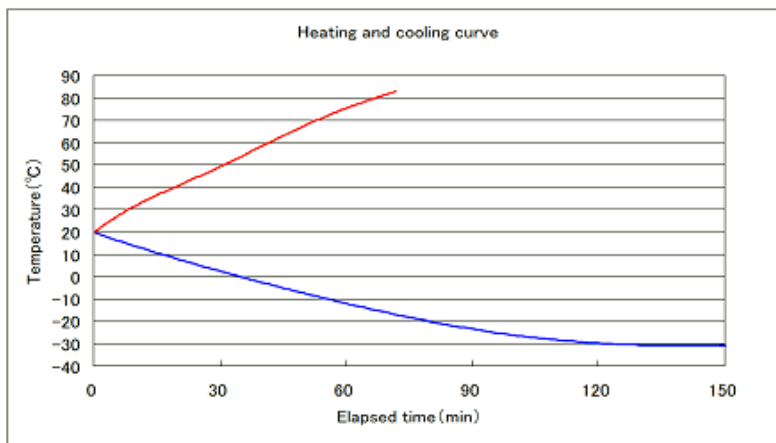
■ Dimensional drawing (mm)



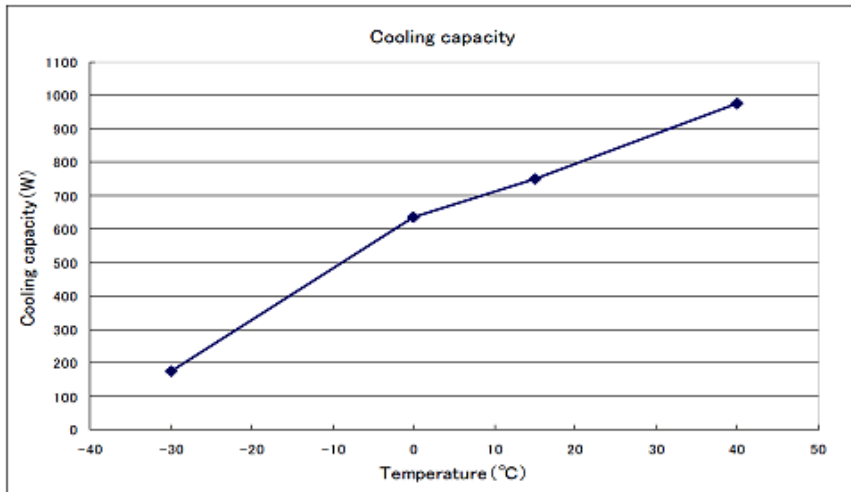
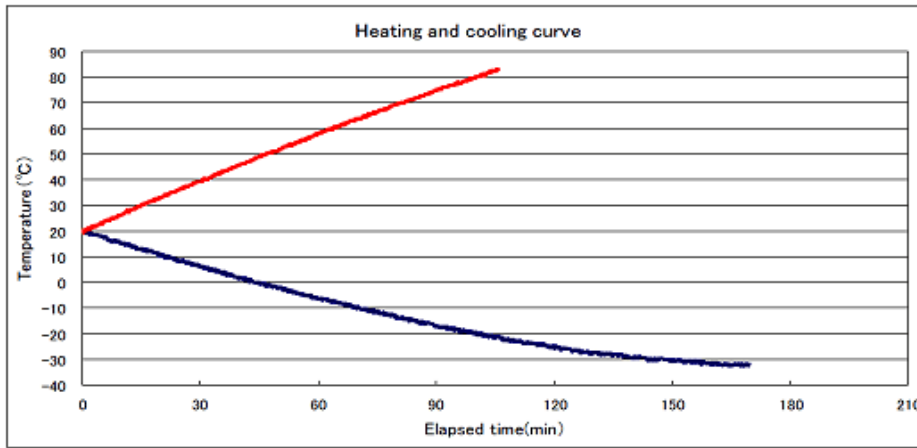
	A	B	C	D
BB301	434	472	883	750
BB401	420	550	885	755
BB601	440	650	885	755

■ Cooling curve

BB401



BB601



■ **Optional items**

Description	Main Unit Model No.	Item Code
External Communication Adapter, RS485-RS232C (conversion)	BB301/BB401/BB601	281387
Shelf, With 4pcs. Shelf Support	BB301	221583
Shelf, With 4pcs. Shelf Support	BB401	221584
Shelf, With 4pcs. Shelf Support	BB601	221585
Caster stopper	BB301/BB401/BB601	281440