

# Water Bath (Low Constant Temp., Large Capacity)

## BL401/810

Operating temp. range -15~+70°C

Temp. distribution accuracy ±0.3°C

Bath capacity Approx. 36L BL401 Approx. 80L BL810

Large capacity low constant temperature water bath with observation window.

### Operation and functions

- Wide temp. range: -15°C+70°C.
- Fixed temperature, auto stop and auto start operations with auxiliary functions such as RS485 communication function and temp. output terminal (4~20mA).
- Designed large observation window.  
BL401 : W250×H135mm  
BL810 : W450×H135mm
- Adjustable shelf plate height up to 2 sections.

### Specifications

Product code	211567	211340
Model	BL401	BL810
System	Pump circulating cooling	
Operating temp. range*1	-15 to +70°C (at room temp. 20°C) (when the chiller is set below 40°C)	
Temp. control accuracy / Temp. fluctuation*1	±0.1°C (JTM K05) at 20°C 1.0°C (JIS) at 20°C	±0.1°C (JTM K05) at 20°C 1.4°C (JIS) at 20°C
Temp. distribution accuracy / Temp. gradient*1	±0.3°C (JTM K05) at 20°C 1.2°C (JIS) at 20°C	±0.3°C (JTM K05) at 20°C 0.6°C (JIS) at 20°C
Temp. indicating unit	0.1°C	
Cooling capacity*1	Approx. 540W (464Kcal/h), at fluid temp. 15°C, room temp. 20°C	Approx. 880W (756Kcal/h), at fluid temp. 15°C, room temp. 20°C
Temperature control	PID control	
Temperature sensor	Double sensor: Pt100Ω (Temp. controller) + K Thermocouple (Overheat prevention device)	
Temp. setting / display	Digital setting / Digital display	
Refrigerator / refrigerant	Air cooling 350W / R404A	Air cooling 600W / R404A
String method	Jet stirring method by magnet pump	
Heater	1.3KW	2KW
Operating ambient temp. range	5~30°C	
Safety device	Over current leakage breaker, Refrigerator overload relay, Refrigerator pressure detection, Float switch to prevent empty boiling, Delay timer function to protect the refrigerator, Automatic overheat prevention function, Overheat prevention device	
Other functions	Drain cock, Float switch, Condenser filter, RS485 communication function, Temperature output terminal, Refrigerator pressure switch indicator, Key lock function, Calibration offset function, Power failure compensation function, Condensation water drain outlet	
Bath dimensions	W400×D300×H300mm	W600×D400×D350mm
Bath capacity	36L (Approx. 31L of liquid)	80L (Approx. 72L of liquid)
Shelf plate steps / pitch	2 steps, 30mm adjustable pitch	
Observation window dimensions	W250×H135mm	W450×H135mm
External dimensions*2	W680×D390×H805mm	W880×D490×H855mm
Power source (50/60Hz)	AC220V 9A Single phase with step-down transformer	AC220V 15A Single phase with step-down transformer
Weight	Approx. 68kg	Approx. 105kg
Accessories	0.3m Drain hose (1 pc.), 0.3m Condensation water drainage hose (1 pc.), Shelf plate (1 pc.)	

\*1 Performance data is based on room temperature of 20°C with no load and rated power supply voltage of 50Hz. The performance will vary depending on the ambient temperature and operating conditions.

\*2 Do not include protrusions.

The length of the power cord is about 2m outside the unit.

### Optional items

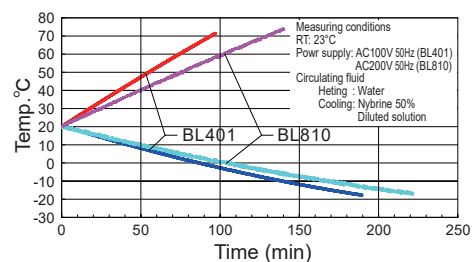
Description	Specifications	Product code
External communication adapter	RS485 - RS232C conversion	281388
Holder for fixing casters	Set of 4 pcs.	281440



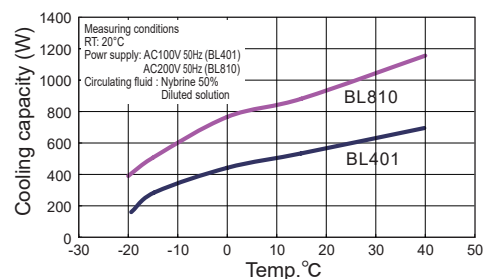
### Control Panel



### Heating / cooling-cooling capacity curve



### Cooling capacity curve



### Dimensions (mm)

