

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 |
| Stringing 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.

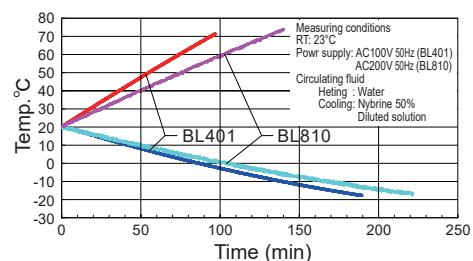
Optional items

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

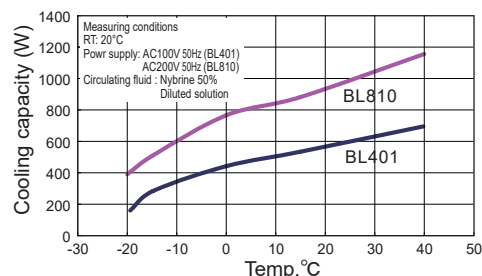
Control Panel



Heating / cooling-cooling capacity curve



Cooling capacity curve



Dimensions (mm)

