Water Bath (High Precision Constant Temp., Programmable)

Thermo-Elite® BH302

Operating temp. range	-20~80°C	Temp. adjustment accuracy	±0.02°C (at 20°C)	Internal capacity	30L (Approx. 20L of liquid)

Low temperature water bath with high performance and wide operating temp. range.

- Temp. adjustment accuracy achieve to ±0.02°C
- Powerful circulation pump makes external circulation of analytical instrument is possible
- Various support functions
- Remote control is available
- Control panel is removable with communication cable for the remote control. (Communication cable is optional.)

■ Specifications

Product code	222047
Model	**BH302**
Circulation system	Water jet pump circulation (closed system circulation)
Operating temp. range*1	-20 to +80°C
Temp. adjustment accuracy*1	±0.02°C JTM K05 (at 20°C) ±0.05°C JIS (at 20°C)
Temp. indication unit*1	0.1°C
Cooling capacity*1	Approx. 360W (310 kcal/h) at 20°C
Refrigerator / Coolant	Air-cooled, 300W / R404A
Pump max. flow (50/60Hz)	14/15L/min.
Pump max. lift (50/60Hz)	2.8/3.4m
Heater	900W
Ambient temperature range	5~30°C
Temperature control	PID control by microprocessor
Temperature setting / display	Digital setting / Digital display
Sensor	Pt Sensor, Pt100Ω A-class (for Temp. Control)+ K-thermocouple (for Overheat Prevention) Double Sensor
Timer	1min.~99hrs.59min., 100~9999hrs Timer / Time switchable function
Operation function	Fixed temp. operation, Quick auto stop, Auto stop / start at setting time, Program operation (max. 99 steps, repeating, gradient operation), Program auto start operation
Safety device	Overcurrent leakage breaker , Refrigerator overload relay, Refrigerator pressure detection, Float switch, Delay timer function for refrigerator protection, Automatic overheat protection, Independent overheat protection
Other functions	Drain cock, Condenser filter, RS485 communication function, Temperature output terminal, Alarm output terminal, Time up output terminal, Key lock function, Calibration offset function, Power failure compensation function
Water bath dimension	W296×D501×H200mm
Internal capacity	30L (liquid 20L)
Effective water bath dimension	W244×D338×H200mm
External dimensions*2	W386×D590×H1135mm (water bath height: 830mm)
Power source (50/60Hz)	AC115V/AC220V Single phase with step-down transformer
Weight	Approx. 68kg
Accessories	External circulation hose nipple (1/2×ø14mm) ×2pcs. Drain hose×1pc.

*1 Performance value test condition: room temperature 20°C, no load, power source 50Hz
*2 Protrusions not included.
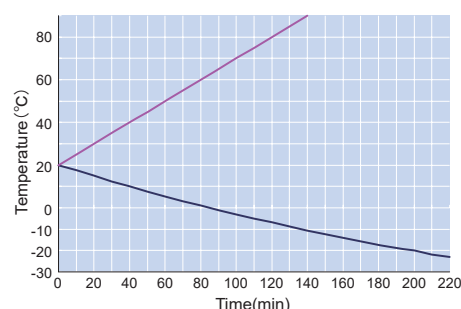The length of the power cord is about 2m outside the unit.

■ Optional items

No.	Description	Specifications	Product code
①	Circulation insulation hose	I.D. ø12mm, Length 2m, 1pc.	222088
②	External communication adapter	RS485－RS232C conversion	281388
③	External Pt sensor	Pt 100Ω, 0.15 level with protection tube, 3m	281350
④	Communication cable for remote control	4 core cable, 5m	281397
⑤	Remote control panel stand		281398
⑥	Remote control power supply	AC100V－DC5V	281399
⑦	Caster fixing holder	Set of 4pcs.	281440

30L
BH302

■ Heating and cooling characteristics

*Room temp. : 20°C, Load : No load, Power supply : AC100V 50Hz
Amount of liquid: 20L, Heating (tap water) Cooling (ethanol 50%)

The control panel can be detached from the main unit to perform remote control.

Circulation port
For externally closed circulation an insulated hose is used.

⑤Remote control panel stand

⑥Remote control power supply

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