

# Economy Constant Temperature Oil Bath

## BO302-A/312-A

Operating temp. range Room temp. +10~180°C

Bath capacity 5L

### Compatible with RE202-A/212-A



- Large capacity 5L with internal diameter of  $\phi 240$  mm
- Flat-shaped bath with no heater or sensor inside makes for ease in cleaning
- Full range of safety functions such as automatic overheat prevention, upper temperature limit abnormality, and independent overheat prevention (fixed temperature type)

### Specifications

| Model            |                               | BO302-A                                                                                                                                  | BO312-A                                                   |
|------------------|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|
| Performance*1    | Operating ambient temp. range | 5~35°C                                                                                                                                   |                                                           |
|                  | Temperature control range     | Room temp. +10~180°C                                                                                                                     |                                                           |
|                  | Temperature control accuracy  | $\pm 2.0^\circ\text{C}$                                                                                                                  |                                                           |
| Configuration    | Temperature control system    | PID control                                                                                                                              |                                                           |
|                  | Controller                    | White LED digital display, key entry, minimum digit of 1°C                                                                               |                                                           |
|                  | Temperature sensor            | Pt100 $\Omega$                                                                                                                           |                                                           |
|                  | Heater                        | 1000W aluminum sheathed heater                                                                                                           |                                                           |
|                  | Exterior                      | PBT (with fiber glass)                                                                                                                   |                                                           |
|                  | Bath reservoir                | Stainless steel                                                                                                                          |                                                           |
| Safety functions |                               | Automatic overheat prevention, independent overheat prevention (fixed temp.), temperature upper limit error, Overcurrent protection fuse |                                                           |
| Other functions  |                               | Overshoot alert, Auto resume (selectable), 2A service outlet, calibration offset                                                         |                                                           |
| Standard         | External dimensions*2         | $\phi 262$ (max. D286) x H240 mm                                                                                                         |                                                           |
|                  | Reservoir capacity            | ~5L                                                                                                                                      |                                                           |
|                  | Power supply (fuse capacity)  | 100-115V, 10-12A (Service outlet excluded) (15A)                                                                                         | 200-230V, 5 6A (10 A)                                     |
|                  | Power cable                   | 3m long, with inlet plug *3                                                                                                              |                                                           |
|                  | Weight                        | ~4.5 kg                                                                                                                                  |                                                           |
| Accessories      |                               | Power cable (1), Spare fuse for main power 15A (large)(1), Spare fuse for service outlet 2A (small)(1),                                  | Power cable (1), Spare fuse for main power 10A (large)(1) |

\*1 Performance data above based on 95-120VAC (BO302)/ 90-241 VAC (BO312) supplied power, 23  $\pm$  5 °C room temperature, 65%RH  $\pm$  20% humidity, and no process load. Operating temperature range for BM/BO series unit is between 5°C and 35°C. Be advised that maximum operating temperature may not be reached under low ambient temperatures, if source voltage is below 95V.(BO302)/190V (BO312)

\*2 Dimensions do not include protrusions.

\*3 BO302 is compatible with the voltage range of 100-115VAC and BO312 is compatible with the voltage range of 200-230VAC, by choosing a suitable power plug.

### Control Panel



### Replacement parts

| Product name                   | Description             | Product code | Compatible model |
|--------------------------------|-------------------------|--------------|------------------|
| Main power fuse 15A (large)    | 250V 15A                | LT00039643   | BO302-A          |
| Main power fuse 10A (large)    | 250V 10A                | LT00039644   | BO312-A          |
| Service outlet fuse 2A (small) | 250V 2A                 | LT00039642   | BO302-A          |
| Power cable                    | Comes with a plug, 3m   | LT00039650   | BO302-A          |
| Power cable                    | With ring terminals, 3m | LT00039652   | BO312-A          |



BO302-A shown with rotary evaporator RE202-A