

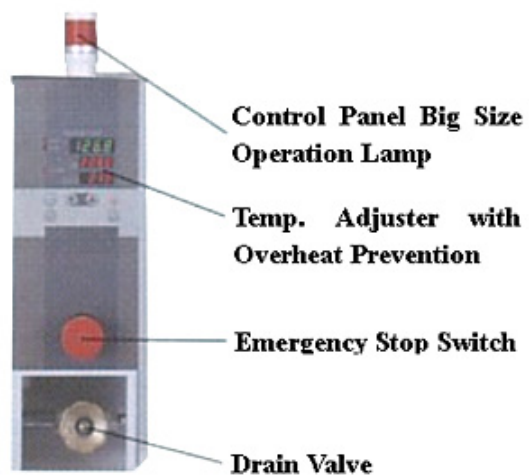
## Constant Temperature Oil Bath

**BOA200/310**

Model	
200	310
Operating Temperature Range (Room Temp. +10 to)	
200deg.C	270deg.C

### FEATURES

- Temperature distribution accuracy is high by using jet stirring method
- Abundant in support function
- 6 safety functions are equipped ( Overheating prevention, emergency stop switch, float switch for preventing sky-fried, float switch for preventing oil overflow , temperature operating condition warning, self diagnosis function )



To operate with Exhaust Hood such as Draft Chamber, etc.

## Specifications

Model	BOA200	BOA310
<b>■ Performance</b>		
Operating Temp. Range	Room Temp. +10 to 200deg.C	Room Temp. +10 to 270deg.C
Temp. Adjustment Accuracy	±0.1deg.C	
Temp. Distribution Accuracy	±0.2	±0.3
Max. Temp. Reaching Time	120min.	70min.
<b>■ Components</b>		
Temp. Control	PID Control by Digital Controller	
Temp. Sensor	Pt100Ω(Temp. Adjuster) + K Thermocouple (Overheat Prevention Function) (Double Sensor)	
Function	Fixed Operation	
Stirring Type	Water Jet Stirring	
Heater	SUS316 Pipe Heater 2kW	SUS316 Pipe Heater 4.5kW
<b>■ Safety Device</b>		
Safety Countermeasure	Electric Leakage Breaker for Over Current Protection, Self Diagnosis Function, Temp. Sensor Error, Heater Error, Automatic Overheat Prevention Function, Overheat Preventor, Independent Overheat Preventor (Fixed 230deg.C for BOA200, Fixed 300oC for BOA310), Float Switch Detector for Overflow Oil, Float Switch Detector, Emergency Stop Switch	
Other Function	Drain Valve, Big Size Operation Lamp, External Alarm Output Terminal, Temp. Output Terminal (1-5V, 4-20mA Changeable Type), RS485 Communication Function, Key Lock Function, Breakout Protection Function, Calibration Offset Function, External Communication Adapter (Optional)	
<b>■ Standard</b>		
Oil Bath Dimensions	W296 x D340 x H270mm	
Capacity	37L	
External Dimensions	W531 x D520 x H578 (Oil Bath Height 397) mm	
Power	AC100V, 50/60Hz, 21A (30A)	AC200V, 50/60Hz, 23A (30A)
Weight	Approx. 37kg	
Accessory	Shelf 1pc., Lid 1pc.	

### About silicone oil

Please select silicone oil which viscosity less than 100mm<sup>2</sup>/s (cSt)

Less than 200deg.C → Toshiba silicone TSF458-50

From 200 to 270deg.C → Toshiba silicone TSF458-100

### Silicone oil characteristics

Manufacturer	Toshiba Silicone	
Recommendation temp.	Less than 200deg.C	From 200 to 270deg.C
Product name	TSF458-50	TSF458-100
Appearance	Pale yellow transparent	
Specific gravity (25deg.C)	0.961	0.963
Viscosity (25deg.C)	50mm <sup>2</sup> /s (cSt)	100mm <sup>2</sup> /s (cSt)
Volatilization (150deg.C, 24h)	0.3%	0.3%
Viscosity temperature coefficient	0.59	0.59
Flash point	325deg.C	342deg.C
Pour point	less than -50deg.C	less than -50deg.C
Viscosity increase rate 300deg.C, 168h)	40%	35%