

Heating BLOCK

MODULAR
ALUMINUM BLOCKS
Max. 180 °C



Heating Block

JSBL-Series Dry Block Heater provides precise and constant temperature control source in the laboratory by heating interchangeable modular aluminum block.

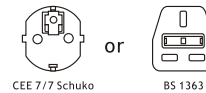
Ideal for microbiology and clinical laboratories for incubation, enzyme assay, inactivation, boiling, wet washing, extraction, sample concentration and many other applications.

The anodized modular aluminum blocks accommodate PCR tubes, eppendorf tubes, microcentrifuge tubes. Heating Block hold 1, 2, 4 interchangeable modular blocks to accommodate a variety of vessels.

Specifications

Heating	Heat transduction through aluminum block
Temp. Range	ambient + 10 °C ~ 180 °C
Accuracy	± 0.5 °C at 60°C
Uniformity	± 3.0 °C at 60°C
Controller	Microprocessor PID Control Wait ON / OFF Timer
Sensor	Class A Pt-100 Ω Sensor
Safety	Over-Temperature Cut-Off Over Current Cut-Off
Material	Body : Steel with Epoxy Powder Coating Bath : Stainless Steel 304 Block : Anodized Aluminum
Electric	220 ± 10% VAC 50/60Hz

Plug Config.



Interchangeable Blocks



Max 180 °C



Constant Temperature
Controller



Timer On / Off



Control Accuracy

- ▶ $\pm 0.1\text{ }^{\circ}\text{C}$ Digital PID Controller with automatic START/STOP timer max. 99min 59sec / 99hr 59min / 99 day 23hr
- ▶ Temperature calibration, auto-tuning function
- ▶ Class A Pt-100 Ω sensor
- ▶ 정밀한 PID 컨트롤러는 온도를 $\pm 0.1\text{ }^{\circ}\text{C}$ 단위로 제어
- ▶ 예약 / 정지 타이머 내장 99분59초/99시간59분/99일23시간
- ▶ 온도보정, 오토튜닝 기능 내장
- ▶ Class A Pt-100 Ω 온도 센서

Performance

- ▶ Heater under the bottom transduce heat trough aluminum block and to maintain uniform temperature
- ▶ Class A Pt-100 Ω sensor embedded into the modular block to measure accurate temperature of the aluminum block
- ▶ 챔버 외부 바닥면 에서 알루미늄 블럭을 가열하여 효율적으로 열을 전도하여 블럭 전체의 온도가 균일
- ▶ Class A Pt-100 Ω 온도센서가 블럭의 온도를 직접 측정, 제어하여 온도 편차가 적음

Convenience

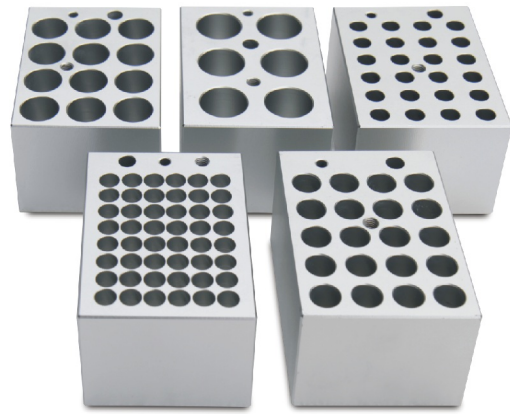
- ▶ Corrosion resistant Stainless Steel 304 (ASTM 304) solid bath interior
- ▶ Wide range of interchangeable modular blocks as accessories for all applications
- ▶ Block extraction tool is supplied with , allowing blocks to be removed easily
- ▶ Aluminum block with additional thermometer hole to measure and compare actual temperature of block
- ▶ 내부식성이 강한 Stainless Steel (SUS304) 배스
- ▶ 다양한 종류의 튜브를 사용할 수 있는 알루미늄 블럭
- ▶ 블럭을 손쉽게 교환할 수 있는 손잡이 포함
- ▶ 블럭에 추가의 온도계 구멍이 있어 실제 블럭의 온도를 간편하게 확인할 수 있음

Safety

- ▶ DUAL OVER TEMP. CUT-OFF
- ▶ MAX TEMP CUT-OFF
- ▶ SENSOR DISCONNECTION ALARM
- ▶ OVER CURRENT CUT-OFF : Electrical Leakage Breaker

Accessories

Art No.	Descriptions
	Modular Aluminum Block
PHA-02B	48 x 0.2ml PCR Tubes or Strip
PHA-05B	24 x 0.2ml PCR Tubes or Strip
PHA-15B	20 x 1.5ml Tubes
PHA-16B	12 x Φ 16mm Tubes
PHA-24B	6 x Φ 24mm Tubes



Ordering Information

	JSBL-01T	JSBL-02T	JSBL-04T
Modular Block Capacity	1 Block	2 Blocks	4 Blocks
Dimensions Inner	90 x 65 x 50	130 x 90 x 50	130 x 180 x 50
W x D x H mm Outer	180 x 245 x 110	220 x 270 x 110	220 x 360 x 50
Single Block Dims.		90 x 65 x 50	
Temperature Range	ambient +5 $^{\circ}\text{C}$ to 180 $^{\circ}\text{C}$		
Accuracy at 60 $^{\circ}\text{C}$	$\pm 0.5\text{ }^{\circ}\text{C}$		
Uniformity at 60 $^{\circ}\text{C}$	$\pm 3.0\text{ }^{\circ}\text{C}$		
Heat up time to 60 $^{\circ}\text{C}$	8 min.	10 min.	14 min.
Heater Capacity	150 Watt	200 Watt	400 Watt
Power Rating	0.7 Amp	0.9 Amp	1.8 Amp
Power Plug	CEE 7/7 Schuko		