

PurpleCore™

Benchtop Incubator Shaker

- User-friendly control panel with clear display for monitoring operating parameters such as temperature, speed, and running time.
- Advanced PID temperature regulation system ensures accurate and consistent temperature performance throughout the experiment.
- Built-in temperature calibration function and compact chamber design help maintain stable internal conditions.
- Special soft-start mechanism minimizes sudden motion, helping prevent liquid spillage and protecting sensitive samples.
- Equipped with a durable brushless DC motor that offers low noise, stable operation, reduced maintenance, and long service life.
- Automatic recovery function restores previously set operating parameters after power interruption.
- Safety pause function automatically stops operation when the cover is opened, improving user protection.
- Integrated over-temperature safety protection enhances operational safety and reliability during continuous use.
- Designed for long-term laboratory applications with dependable and efficient performance.



Description:

This compact laboratory shaker combines precise temperature control with gentle and stable shaking performance in a space-saving benchtop design. It is simple to operate, easy to maintain, and suitable for handling different types of laboratory containers and samples.

The equipment is widely used in microbiology, cell culture, fermentation studies, hybridization experiments, biochemical applications, and other laboratory processes that require controlled temperature and uniform shaking conditions. It is ideal for both static and dynamic cultivation of microorganisms and various biological samples.

Applications:

- **PID Temperature Regulation**
Intelligent temperature management system designed to maintain accurate and stable heating conditions throughout operation.
- **Gentle Start Function**
Smooth startup mechanism that reduces sudden shaking movement, helping to protect samples from splashing or disturbance.
- **Brushless Motor Technology**
High-performance maintenance-free motor that ensures quiet operation, energy efficiency, and long-lasting durability.
- **Over-Temperature Safety Protection**
Built-in safety feature that automatically protects the instrument and samples from excessive temperature conditions.

Technical Specifications

Specification				
Product Code	PBI014	PBI015	PBI016	PBI017
Temperature Setting Range	0°C to 60°C	0°C to 60°C	0°C to 60°C	0°C to 60°C
Temperature Control Range	RT +5°C to 60°C	RT +5°C to 60°C	5°C to 60°C (RT drops by 20°C)	5°C to 60°C (RT drops by 20°C)
Timer Range	1 min to 99 hr 59 min / continuous	1 min to 99 hr 59 min / continuous	1 min to 99 hr 59 min / continuous	1 min to 99 hr 59 min / continuous
Temperature Accuracy	≤±0.5°C at 37°C	≤±0.5°C at 37°C	≤±0.5°C at 37°C	≤±0.5°C at 37°C
Display Resolution	0.1°C	0.1°C	0.1°C	0.1°C
Temperature Uniformity	≤±0.5°C at 37°C	≤±0.5°C at 37°C	≤±0.5°C at 37°C	≤±0.5°C at 37°C
Speed Range	50 – 300 rpm	50 – 300 rpm	50 – 300 rpm	50 – 300 rpm
Shaking Movement	20 mm horizontal motion	20 mm horizontal motion	20 mm horizontal motion	20 mm horizontal motion
Tray Type	Universal platform tray	Universal platform tray	Universal platform tray	Universal platform tray
Platform Dimensions	230 × 230 mm	350 × 350 mm	230 × 230 mm	350 × 350 mm
Chamber Height	182 mm	300 mm	182 mm	300 mm
Maximum Load Capacity	4.0 kg	10.0 kg	4.0 kg	10.0 kg
Heating Duration	≤15 minutes (25°C to 60°C)	≤15 minutes (25°C to 60°C)	≤15 minutes (25°C to 60°C)	≤15 minutes (25°C to 60°C)
Power Failure Recovery	Available	Available	Available	Available
Lid Open Pause Function	Available	Available	Available	Available
Power Consumption	350 W	600 W	500 W	900 W
Fuse Specification	250V 3A Φ5×20	250V 6A Φ5×20	250V 4A Φ5×20	250V 6A Φ5×20
External Dimensions (LxWxH)	421 × 320 × 338 mm	421 × 320 × 338 mm	421 × 320 × 338 mm	421 × 320 × 338 mm
Net Weight	18.5 kg	32.5 kg	20 kg	39.5 kg
Electrical Supply	110V / 220V, 50/60 Hz	110V / 220V, 50/60 Hz	110V / 220V, 50/60 Hz	110V / 220V, 50/60 Hz

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