

# PurpleCore™

## Digital Display Emulsifying Homogenizer

### **High-Performance DC Motor**

Equipped with a powerful DC high-speed motor that delivers stable operation, reduced noise levels, longer service life, and lower energy consumption.

### **High-Definition Digital Display**

Features a clear digital screen for real-time speed monitoring and convenient experimental data observation.

### **Laboratory-Grade Material Construction**

All stainless-steel wetted components offer excellent corrosion resistance and durability under high-temperature conditions.

### **Interchangeable Probe Options**

Comes with two optional dispersing probe configurations to support different laboratory applications and sample volumes.

### **Stepless Speed Adjustment**

The rotary control knob enables precise speed adjustment within the range of **2,000–20,000 rpm** for flexible operation.

### **Real-Time Digital Monitoring**

The digital display provides accurate and intuitive speed readings during operation for improved process control.

### **Adjustable Lifting Mechanism**

The flexible lifting clamp allows free height adjustment according to experimental container size and laboratory requirements.



### **Description:**

The digital emulsifying homogenizer is specially developed for efficient homogenization, emulsification, and mixing of two immiscible liquid phases. It is also suitable for extracting trace organic compounds, fat soluble substances and organic solvent soluble substances in water.

The equipment is widely used in industries and laboratories where high-efficiency sample processing and fine dispersion are required. Typical application areas include scientific research institutes, colleges and universities, environmental testing laboratories, sanitation and epidemic prevention centres, chemical industries, water quality analysis, and medical institutions.



## Available Probe Options

### □ Two Types of Dispersing Probes Available

The dispersing probes are manufactured using high-quality stainless steel, providing excellent corrosion resistance and allowing sterilization under high-temperature and high-pressure conditions.

- Probe option: 20–1200 mL sample capacity
- Probe option: 20–1000 mL sample capacity

## Technical Specifications

| Specification :                       |                                                               |
|---------------------------------------|---------------------------------------------------------------|
| Product Code                          | PBI023                                                        |
| Power                                 | 200 W                                                         |
| Power Adapter                         | 24V, 6A                                                       |
| Speed Range                           | 2,000 – 20,000 rpm                                            |
| Speed Control                         | Stepless speed adjustment via rotary knob                     |
| Maximum Viscosity                     | 5,000 mPa·s                                                   |
| Standard Probe Set 1 (Small Capacity) | Diameter: 12 mm, Length: 15 cm, Processing Volume: 20–1000 mL |
| Standard Probe Set 2 (Large Capacity) | Diameter: 18 mm, Length: 16 cm, Processing Volume: 20–1200 mL |
| Wetted Material                       | SS304 Stainless Steel, PTFE                                   |
| Protection Class                      | IP20                                                          |
| Motor Type                            | Direct-Drive High-Speed Precision Motor                       |
| Support Stand Dimensions (LxWxH)      | 360 × 320 × 600 mm                                            |
| Weight                                | 4 kg                                                          |
| Power Supply                          | 100–240V AC, 50/60Hz                                          |



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