

## BIOPREP® BP-525-HS Large Capacity High-Speed Refrigerated Centrifuge

### Accelerating Research with Precision & Reliability

The BIOPREP® BP-525-HS is a high-performance floor-standing refrigerated centrifuge designed for advanced molecular biology, biotechnology, pharmaceutical, clinical research, and industrial laboratory applications. Combining high-speed performance, intelligent touchscreen control, advanced refrigeration, and a large sample capacity, the BP-525-HS delivers exceptional separation efficiency while ensuring sample integrity.

### Key Features

<p><b>⚡ High-Speed Performance</b></p> <ul style="list-style-type: none"> <li>• Maximum Speed: <b>25,000 rpm</b></li> <li>• Maximum RCF: <b>64,800 × g</b></li> <li>• Maximum Capacity: <b>4 × 1000 mL</b></li> <li>• Precise speed control with <math>\pm 10</math> rpm accuracy</li> </ul>	<p><b>❄️ Advanced Refrigeration System</b></p> <ul style="list-style-type: none"> <li>• Temperature Range: <b>-20°C to +40°C</b></li> <li>• Temperature Accuracy: <b><math>\pm 1^\circ\text{C}</math></b></li> <li>• Environment-friendly <b>CFC-free refrigeration</b></li> <li>• Enhanced thermal insulation for superior temperature stability</li> </ul>
<p><b>🖨️ Intelligent Touchscreen Control</b></p> <ul style="list-style-type: none"> <li>• Large <b>7-inch HD LCD Touch Screen</b></li> <li>• Speed and RCF interchangeable display</li> <li>• Automatic RCF calculation</li> <li>• 10 acceleration and deceleration profiles</li> <li>• Storage of more than <b>99 user programs</b></li> <li>• Quick-access shortcut keys for frequently used protocols</li> </ul>	<p><b>🔒 Comprehensive Safety Protection</b></p> <ul style="list-style-type: none"> <li>• Automatic rotor identification</li> <li>• Overspeed protection</li> <li>• Overtemperature protection</li> <li>• Imbalance detection system</li> <li>• Automatic lid locking mechanism</li> <li>• Electromagnetic induction door safety system</li> </ul>
<p><b>🔇 Low Noise Operation</b></p> <ul style="list-style-type: none"> <li>• Advanced vibration reduction technology</li> <li>• Noise level <math>\leq 65</math> dB(A)</li> <li>• Flexible bearing drive system for stable high-speed operation</li> </ul>	<p><b>👤 User-Friendly Design</b></p> <ul style="list-style-type: none"> <li>• Ergonomic low-height lid design</li> <li>• One-touch lid closing</li> <li>• Tool-free rotor installation and removal</li> <li>• Stainless steel centrifuge chamber with anti-corrosion coating</li> </ul>

## Technical Specifications

Parameter	Specification
Model	BIOPREP® BP-525-HS
Maximum Speed	25,000 rpm
Maximum RCF	64,800 × g
Maximum Capacity	4 × 1000 mL
Timer	1 sec – 99 h 59 min 59 sec
Speed Accuracy	±10 rpm
Temperature Range	-20°C to +40°C
Temperature Accuracy	±1°C
Voltage	AC 220V ±10%, 50Hz
Power Consumption	4.5 kW
Noise Level	≤65 dB(A)
Dimensions (W × D × H)	815 × 720 × 1060 mm
Weight	270 kg
Rotor Identification	Automatic



BIOPREP® BP-525-HS

## Available Rotor Options

### High-Speed Angle Rotors



Rotor Capacity		Max Speed	Max RCF
24 × 1.5/2.0 mL Titanium		25,000 rpm	64,800 × g
18 × 10 mL		23,000 rpm	60,460 × g
8 × 50 mL Titanium		21,000 rpm	52,356 × g
8 × 50 mL Carbon Fiber (Optional)		20,000 rpm	46,420 × g
6 × 50 mL Carbon Fiber (Optional)		20,000 rpm	41,365 × g

## ★ Premium Carbon Fiber Rotors

**BIOPREP® carbon fiber rotors provide:**

<ul style="list-style-type: none"> <li>✓ Lightweight construction</li> <li>✓ Higher operational efficiency</li> <li>✓ Faster acceleration and deceleration</li> <li>✓ Excellent chemical resistance</li> </ul>	<ul style="list-style-type: none"> <li>✓ Superior mechanical strength</li> <li>✓ Extended service life</li> <li>✓ Increased sample throughput</li> <li>✓ Reduced rotor maintenance costs</li> </ul>
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## Large Capacity Rotors

Rotor Capacity		Max Speed	Max RCF
12 × 15 mL		16,000 rpm	29,050 × g
6 × 250 mL Carbon Fiber (Optional)		14,000 rpm	30,074 × g
8 × 100 mL		13,000 rpm	19,830 × g
12 × 50 mL		12,000 rpm	22,135 × g
6 × 500 mL Carbon Fiber (Optional)		10,000 rpm	17,778 × g
4 × 1000 mL Carbon Fiber (Optional)		8,930 rpm	15,000 × g

### Precision • Performance • Reliability

**BIOPREP® BP-525-HS Large Capacity High-Speed Refrigerated Centrifuge offers the perfect combination of high-speed performance, large-volume processing, advanced refrigeration, and intelligent control—making it an ideal solution for modern research and production laboratories.**