

## Techne® Portable Dry Block Temperature Calibrator

Case is cool to the touch—even at maximum temperatures

- Maximum temperature of 430°C (806°F)
- Fast heat-up and cool-down
- Independent overtemperature cutout
- Temperature sensor burnout protection
- Built rugged to handle portable field use
- Lightweight, only 4-kg (9 lb)

**What's included:** one multi-well insert (3.17-, 4.76-, 6.35-, 7.93- & 9.52-mm well sizes), insert extractor, mains cable, and NIST-traceable calibration report supplied by the manufacturer.



Model	3028950
<b>Catalogue number</b>	<b>MY-16101-98</b>
Minimum temperature	5°C / 9°F above ambient
Maximum temperature	430°C / 806°F
Cooling rate 400 to 100°C	21 min
Heating rate, 20 to 400°C	12 min
Independent overtemp. cutout	Approx. 450°C / 842°F
Display resolution	0.1°C / 0.1°F
Insert immersion depth	11.43 cm (4½")
Stability after 15 minutes	±0.03°C @ 200°C; ±0.05°C @ 400°C
Display accuracy	±0.3°C @ 200°C; ±0.5°C @ 400°C
Well-to-well uniformity	0.015°C @ 200°C; 0.025°C @ 400°C
Dimensions (H x W x D)	222 x 203 x 203 mm (8¾" x 8" x 8")
Power (VAC, Hz, W)	240, 50/60, 900



### Optional Inserts

Model	Description	Catalogue number
7032533	Insert 5 x 0.63 cm	<b>MY-08510-70</b>
7032534	Insert 0.95 cm + 0.79 cm + 0.63 cm + 0.47 cm + 0.3 cm	<b>MY-16104-25</b>
7032535	Insert 2 x 0.95 cm + 2 x 0.63 cm	<b>MY-16104-26</b>
7032536	Insert 2x 1.27 cm + 2 x 0.63 cm	<b>MY-16104-27</b>
7032537	Insert 1 x 0.63 cm	<b>MY-16104-28</b>
7032538	Insert blank	<b>MY-16104-29</b>
7032574	Insert 1 x 1.42 cm & 1 x 0.63 cm	<b>MY-16104-39</b>
7032575	Insert 1 x 1.58 cm & 1 x 0.63 cm	<b>MY-16104-40</b>
7032576	Insert 1 x 1.74 cm & 1 x 0.63 cm	<b>MY-16104-41</b>
7032577	Insert 1 x 1.9 cm & 1 x 0.63 cm	<b>MY-16104-42</b>

**MY-16104-43 Soft-side carrying case**

**MY-17002-16 ILAC MRA, NIST-traceable recalibration with data**

## Stuart® 8500 Microcentrifuge

Be safe with dual locking lid

- Quickly change rotors with quick-release adapter—no tools required
- Built-in recessed rotor bowl contains spills for easy cleanup
- Small footprint—the perfect unit for your personal workspace
- Spin samples rapidly or be used in applications where greater g-force is required
- Automatic shut-off discontinues operation after 60 minutes of continuous use



The Stuart 8500 microcentrifuge, with enhanced safety features, provides high speed centrifugation while protecting you and your samples. Spin samples rapidly to be used in applications where greater g-force is required. The innovative dual safety lock lid prevents you from accidentally opening the unit. It will only spin when the lid is closed and will automatically shut off after 60 minutes of continuous use. The rubber-coated base allows for enhanced stability and reduced vibration.



### Specifications

**Rotors (included):** fixed-angle, 8 x 1.5- to 2.0-mL tubes; 32 x 0.2-mL strip tubes  
**Power:** 100 to 240 VAC, 50/60 Hz

Speed range	Max RCF x g	Catalogue number
8500 rpm	3884	<b>MY-17414-70</b>

## Cole-Parmer® Personal Microcentrifuges

Quickly and efficiently spin down samples

- Includes two rotors: one for 1.5- to 2.0-mL tubes and one for PCR tubes (0.4 mL)
- On/off switch lets you stop rotor before opening lid

Operation is extremely simple, just close the lid and the rotor accelerates quickly to 6000 rpm. Small footprint with rubber feet keep unit stable.



### Specifications

**Rotors (included):** fixed-angle, 6 x 1.5- to 2.0-mL tubes; 2 x 0.2-mL strip tubes  
**Power:** 220 VAC, 50/60 Hz

Speed range	Max RCF x g	Catalogue number
6000 rpm	2000	<b>MY-17310-15</b>

# Cole-Parmer® MP and MPR Series Multipurpose Centrifuges

## Rugged construction without sacrificing reliable performance

- Extra-thick stainless steel chamber and zinc-coated alloy and steel frame increase durability for inorganic separations requiring strong solvents
- Industrial-grade inverter drive (VFD) and brushless motor provide a long service life
- User-accessible service sections allow on-site maintenance
- Programmable memory quickly administers routine tests and accommodates multiple users
- Pulse feature lets you perform very short runs to 90 seconds, perfect for fast pelleting

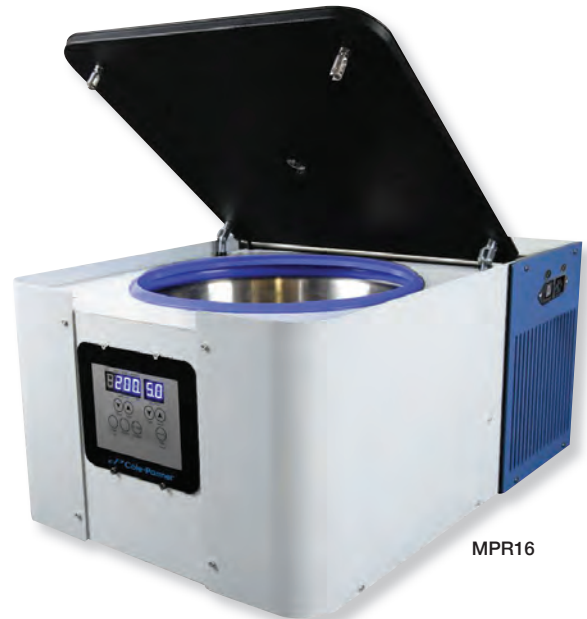
This Cole-Parmer multipurpose (MP and MPR) series of benchtop centrifuges features advanced safety elements, including lid with multipoint lock and gas struts, emergency lid release during power failure, and barrier ring to protect the chamber. Multiple sensors prevent damage to centrifuge in case of misuse or malfunction: lid lock detector ensures lid is secure before running, imbalance detector guarantees samples are loaded correctly, and overspeed and motor overheating sensors warn of mechanical or electronic failures.

Basic models feature three LED displays showing temperature, rpm, and time. Memory supports ten programs including acceleration and deceleration rates. Advanced models feature a large touch-screen LCD with memory for 108 programs. The refrigerated models (MPR) deliver accurate cooling to protect your valuable samples from heat.

**Basic MP16 and MPR16 models** include a fixed-angle rotor holding eight 50-mL tubes—perfect for civil, environmental, and water supply engineering applications.

**Basic MPR315 model** adds the automatic rotor recognition function. Automatic rotor recognition provides safety and convenience when different rotors are used. The installed rotor is recognised at the beginning of a run and is automatically limited to its rated maximum speed.

**Advanced MPR115 model** adds automatic rotor recognition function. Plus, the large intuitive touch-screen LCD is simple to navigate, saving you time in the lab. Programmable memory supports 108 programs including acceleration and deceleration rates for routine tasks, or use the W2t functionality normally found only on ultracentrifuges.



MPR16



MPR115



ISO9001:2008  
CERTIFIED SUPPLIER



Model	Interface	Max speed (rpm)	Max RCF x g	Max capacity	Timer	Rotors included	Power	Catalogue number
<b>Nonrefrigerated MP model</b>								
MP16	Basic	6000	4800	1 L	0 to 99 minutes, 10-second increments	Fixed-angle rotor (17406-09)	230 VAC, 50 Hz	MY-17406-55
<b>Refrigerated MPR models, -9 to 40°C ( 15.8 to 104°F)</b>								
MPR16	Basic	6000	4800	1 L	0 to 99 minutes, 10-second increments	Fixed-angle rotor (17406-09)	230 VAC, 50 Hz	MY-17406-25
MPR315	Basic	15,000	22,000	3 L	0 to 99 minutes, 1-second increments	Fixed-angle rotor (17406-03) and swing-out rotor (17406-01) with buckets (17406-02) and adapters (17406-04)	230 VAC, 50 Hz	MY-17406-17
MPR115	Advanced	15,000	22,000	1 L	0 to 9999 minutes, 1-second increments	Fixed-angle rotor (17406-13) and swing-out rotor (17406-11) with buckets (17406-12) and adapters (17406-14)	230 VAC, 50 Hz	MY-17406-19

Find even more! Additional centrifuges, rotors, adapters, and reducers are available online.

## Flip-Cap Centrifuge Tubes

### No more lost caps!

- Hinged flip-top cap allows for single-handed use
- Grooved cap surface for easier manipulation
- Guaranteed DNase, RNase, and pyrogen free
- Can be spun up to 9400 g

Centrifuge tubes with hinged flip-top caps allow for easy one-handed opening and closing. No more dropping or losing the tube cap. Bold black graduations are easy to read and accurate to  $\pm 2\%$ . A large frosted marking area allows for permanent sample identification.

The conical-bottom, polypropylene (PP) tubes are compatible with any fixed angle or swing bucket rotor and can withstand temperatures from  $-80$  to  $120^{\circ}\text{C}$ .



**Not recommended for use in long term storage or sample transport applications.**



Capacity (mL)	Tube material	Max RCF (x g)	Cap included	Sterile	Packaging	Qty/ cs	Catalog number
15	PP	9400	Yes	Yes	20 bags of 25	500	MY-04395-55
50	PP	9400	Yes	Yes	20 bags of 25	500	MY-04395-56

## 5-mL Microcentrifuge Tubes

### Perfect for medium-sized samples



- Easy-open attached cap eliminates hand fatigue and maintains sample integrity
- Polypropylene handles autoclaving to  $120^{\circ}\text{C}$  and freezing to  $-90^{\circ}\text{C}$
- Certified RNase-, DNase-, and pyrogen-free

These graduated 5-mL tubes were designed to fill the gap for samples too large for standard microcentrifuge tubes and too small to pipette without contamination from a 15-ml conical tube. Use in centrifuges that accept 15-mL tubes.

Capacity (mL)	Max RCF (x g)	Sterile	Colour	Qty/pk	Catalogue number
5	5000	No	Natural	200	MY-04395-47
		Yes†	Natural	200†	MY-04395-48
		No	Blue	200	MY-04395-49
		No	Yellow	200	MY-04395-50
5	5000	No	Green	200	MY-04395-51
		No	Pink	200	MY-04395-52
		No	Black	200	MY-04395-53

†Sterile tubes are packaged as 10 bags of 20 tubes.

MY-04395-54 Acrylic tube rack holds 10 x 5-mL microcentrifuges

## CapLock™ Microcentrifuge Tube

### Make sure your samples stay secure with double-locking cap

- Polypropylene is autoclavable at  $121^{\circ}\text{C}$  and freezable to  $-100^{\circ}\text{C}$
- Free of RNase, DNase, endotoxins, and human DNA
- Certified TSE/BSE free



Capacity (mL)	Max RCF (x g)	Sterile	Qty/pk	Catalogue number
1.5	30,000	No	1000	MY-04395-57

## Black Microcentrifuge Tubes

### Protect your photosensitive samples

Black tubes provide a completely opaque barrier, protecting even the most light-sensitive compounds. Ideal for use with fluorescent probes or ethidium bromide. Tubes are made of polypropylene with a click-fit cap to prevent accidental opening. Tubes can be stored down to  $-100^{\circ}\text{C}$  and can be autoclaved to  $122^{\circ}\text{C}$ .



Capacity (mL)	Tube material	Max RCF x g	Sterile	Qty/ pk	Catalogue number
0.5	PP	15,000	No	500	MY-06333-75
1.5	PP	15,000	No	500	MY-06333-80
15	PP	8,400	No	50	MY-06344-30
30	PP	10,000	No	50	MY-06344-35

## BackSpring™ Tube

### Easy opening and closing tubes

- RNase-free, DNase-free, and non-pyrogenic
- Boil-proof and withstands freezing to  $-90^{\circ}\text{C}$

This unique 1.5-mL microcentrifuge tube lets you open it from the back with just one hand, versus the traditional front-open style. Pivot design allows the tube to snap open when pressure is applied to the back of the cap—enabling quick, comfortable opening and closing of the lid. Tube features easy-puncture top, graduations, and frosted writing surface. **Autoclavable.**



Capacity (mL)	Tube material	Max RCF (x g)	Colour	Cap included	Sterile	Qty/ pk	Catalogue number
1.5	Homopolymer plastic	30,000	Clear	Yes	No	500	MY-22999-00