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MICROCENTRIFUGES

Powerful performance and a compact design make our variable-speed MicroCentrifuges ideal for a variety of applications in medical, industrial, and scientific laboratories. Ventilated Models 5520 and 5521 and refrigerated Models 5522 and 5523 are available to meet your specific requirements.



Quiet running Model 5522 (refrigerated) and Model 5520 (ventilated) MicroCentrifuges

- Units can achieve a centrifugal force of up to 16,250 xg, a speed range of 1,000 to 13,200 RPM, and a temperature range (refrigerated models only) from -9C to 40C (15.8F to 104F).
- Full speed is reached within 15 seconds, even when fully loaded; rotor brakes to a stop in approximately 15 seconds.
- Maintenance-free, brushless drive motor is permanently lubricated.
- Suction feet grip the work surface to prevent “walking.”
- Cover interlock safety feature ensures that the MicroCentrifuge cover is closed before a run can begin and keeps the cover closed until the rotor is at a safe, low speed.

EASY-TO-USE CONTROL PANEL

Three modes of operation include: Automatic Time Run, Momentary Spin (Pulse), and Continuous Operation (Hold). Repeat runs using the previous time and speed settings are achieved at the touch of a button.

Time –

Time can be set from 1 second to 99 minutes. System counts down from the setpoint in Automatic Time Run mode; system counts up in Continuous Operation (Hold) and Momentary Spin (Pulse) modes.

Speed/Force –

Speed can be selected in 100 RPM increments from 1,000 to 13,200 RPM. Select force (RCF) from 100 to 1,000 xg in 50 xg increments, from 1,000 to 10,000 xg in 100 xg increments, and from 10,000 xg in 200 xg increments. Speed is shown within 100 RPM and never requires calibration.

Temperature (Models 5522 and 5523 only) – Displays whole degrees C from -9C to 40C, based on the temperature setpoint.

Function Keys –

Start: Starts a run based on the set parameters. Light stays on when the rotor reaches the set run speed.

Stop/Open: Stops the run and unlocks the cover when the rotor has slowed below 100 RPM. On refrigerated models, a steady red light indicates that the cover can be opened.

Pulse: MicroCentrifuge runs up to the set speed when this button is pressed and held. When released, the MicroCentrifuge stops.



On/Off – Provides power to the MicroCentrifuge.

Thermo Forma

A Thermo Electron business

P.O. Box 649
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International Distributors Worldwide
An ISO 9001 Company

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USA and Canada 1-800-848-3080
www.forma.com

Rev. 0, 11/00

SPECIFICATIONS

Maximum Speed	13,200 RPM
Maximum Force	16,250 xg
Maximum No. of Tubes	48 x 0.5ml
Maximum Sample Volume	48ml (24ml x 1.5/2.0ml)
Operator Controls	
Rotation	1,000 to 13,200 by 100 RPM
Spin Duration	0:01 through 0:59 by 1 second 1:00 through 4:45 by 15 seconds 5:00 through 99 by 1 minute
	Momentary Spin (Pulse) and Continuous Operation (Hold) modes
Accel. and Decel. Rate.	Fast (15 seconds)
Repeatability	
Rotation	Within 10 RPM
Spin Timing	0.1 second
Temperature*	±1C in range 4C to 20C (39.2F to 68F)
Construction (interior)	Stainless steel cabinet with inter- locking mechanically latched lid
Display	RPM/RCF (speed/force), Time, Temperature*, warning and error messages Stop, Start (indicated by lights) Modes: Actual (bright light display), Set (dim light display)

Refrigeration*	Non-CFC, non-flammable, and commercially available refrigerant 1/4 HP hermetic compressor
Electrical	
Ventilated	5520: 120V, 60 Hz, 4.0 FLA 5521: 220-240V, 50/60 Hz, 2.0 FLA
Refrigerated	5522: 120V, 60 Hz, 7.0 FLA 5523: 220-240V, 50 Hz, 4.0 FLA
Cord Set	6 ft. (1.8m)
Certification	5520, 5522: CSA Certified 5521, 5523: CE Marked
Dimensions	
Height (cover open)	19.8" (50.3cm)
Height (cover closed)	9.8" (24.9cm)
Width	12.0" (30.5cm)
Depth (ventilated)	13.3" (33.8cm)
Depth (refrigerated)	23.2" (58.9cm)
Clearance	Add 3.0" (7.6cm) to all sides
Weight	
Net	5520: 36 lbs. (16.3 kg) 5521: 44 lbs. (20.0 kg) 5522: 71 lbs. (32.2 kg) 5523: 79 lbs. (35.8 kg)
Shipping	5520: 46 lbs. (20.9 kg) 5521: 54 lbs. (24.5 kg) 5522: 83 lbs. (37.6 kg) 5523: 91 lbs. (41.3 kg)

Continuing research and improvements may result in specification changes at any time.

*Applies to refrigerated units only



POLYPROPYLENE MICROTUBE ROTORS



Specialized microplate rotors and cover

These lightweight, dynamically balanced Microtube Rotors are virtually impervious to chemical attack and may be autoclaved repeatedly without damage. The 45 degree sealed rotor (**No. 5800891**) provides aerosol containment. The other 45 degree rotors—**unsealed No. 5800851, No. 5800852, and No. 5800853**—include a see-thru plastic lid for quiet operation. The adapters, which are ordered separately, are sold with 12 adapters per pack.

TUBE		MAXIMUM RPM/RCF*	ROTOR NUMBER	RADIUS	QUANTITY x ADAPTER (FOR MAX. CAPACITY)
ROTOR CAPACITY	DESCRIPTION				
24x1.5/2.0ml	Microtubes	13,200/16,250	Can use	8.35cm	Not required
24x0.6ml	Becton Dickinson Microtainers®	13,200/16,450	5800891 (aerosol contained) or	8.45cm	2 x 5805763
24x0.5ml	Microtubes (PCR)	13,200/14,500		7.45cm	2 x 5805763
24x0.4ml	Microtubes	13,200/16,250	5800851	8.35cm	2 x 5805764
24x0.25ml	Microtubes	13,200/14,100		7.25cm	2 x 5805764
24 x0.06ml	Becton Dickinson Microtainers	13,200/16,450	5800852	8.6cm	Not required
40x0.4ml	Microtubes	13,200/16,350	5800853	8.4cm	Not required
40x0.25ml	Microtubes	13,200/14,600	5800853	7.5cm	Not required
40x0.8ml	6x50mm Glass	13,200/16,500	5800853	8.5cm	Not required
48x0.5ml	Microtubes (PCR)	13,200/15,575/14,600**	5800852	8.0/7.5cm**	Not required

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*RCF displayed on the control panel is based on the radius of rotation for No. 5800851 and 5800891 rotors for 1.5/2.0ml tubes.

**Outer row/inner row; each row holds 24 tubes.



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