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Find the *Thermo / Thermo Electron Micro GP 5521* at our website: *Click HERE*

# 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.

**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.

**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.




**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*

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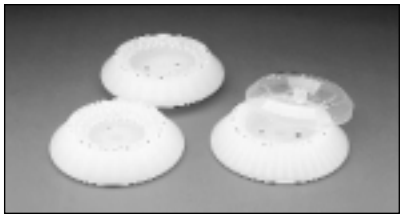
## SPECIFICATIONS

**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 interlocking 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 | ROTOR | | QUANTITY x ADAPTER |
|---|---|---|---|---|---|
| ROTOR CAPACITY | DESCRIPTION | RPM/RCF* | NUMBER | RADIUS | (FOR MAX. CAPACITY) |
| 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 | 8.45cm | 2 x 5805763 |
| 24x0.5ml | Microtubes (PCR) | 13,200/14,500 | (aerosol | 7.45cm | 2 x 5805763 |
| 24x0.4ml | Microtubes | 13,200/16,250 | contained) or | 8.35cm | 2 x 5805764 |
| 24x0.25ml | Microtubes | 13,200/14,100 | 5800851 | 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 |

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