



Sophistication, Performance and Affordability



## The Micromax Microcentrifuge– Sophistication, Performance and Affordability

- Combines powerful, quiet performance with attractive, compact styling
- Available in both refrigerated and ventilated models
- Capable of up to 21,000 xg @ 15,000 rpm
- Unique dual-tube rotor holds both 2.0 ml microtubes and 0.5ml PCR tubes
- 24-place sealed rotor tested by CAMR Porton Down

Thermo

#### **More Separating Power**

The Micromax produces forces up to 21,000 xg at speeds of 15,000 rpm on 24 (1.5-2.0 ml) samples or 48 (0.5 ml) microtubes, providing full application flexibility.

#### **More Control**

Features like g-force run control, gentle and fast acceleration/braking rates, audible end of run signals, and momentary spin and hold timers give you more control and consistency over your centrifugation.

#### **More Convenience**

A "glove friendly" membrane control panel with digital display makes the Micromax easy to clean and operate. Repeat runs are as simple as touching a single membrane switch. The unique 851 rotor spins both 24 x 2.0 ml plus 24 x 0.5 ml in the same rotor, reducing cost and saving time.

#### **More Peace of Mind**

Polypropylene rotors, including a sealed rotor for aerosol containment, can be autoclaved or decontaminated using bleach and agents such as Count-Off<sup>®</sup> without fear of corrosion.

#### **Less Noise**

The Micromax operates at a low noise level on your bench so that you can work without distraction.

#### **Less Space**

Precious benchspace is conserved with the compact Micromax. The refrigerated unit extends to the rear of your bench to conserve width.

#### **Less Time**

The Micromax accelerates to full speed rapidly, in less than 15 seconds, minimizing your wait time.

#### **Less Maintenance**

The Micromax's brushless motor is designed for longevity and requires no maintenance, which saves you time and money. In addition, all controls are microprocessor-based for added reliability.



Thermo Electron's exclusive 851 dualrow microtube rotor lets you spin both 24 x 1.5/2 ml and 24 x PCR tubes in the same rotor, without the need for adapters, or for cutting off the tops of other microtubes. It's like getting a second rotor **free**.

#### Unique Polypropylene Microtube Rotors

Thermo Electron's exclusive line of high-durability polypropylene rotors are virtually impervious to chemical attack and may be repeatedly autoclaved without corrosion.

The sealed rotor (Cat. No. 891) provides aerosol containment, and can be removed from the Micromax and unsealed under an environmental hood. This rotor has been tested by the Center for Applied Microbiology and Research (CAMR) in Porton Down, England, the gold standard in biocontainment safety.

All other rotors include a translucent lid for quiet operation.



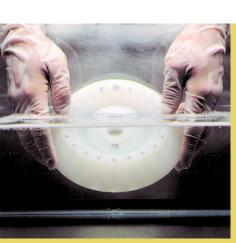
Thermo Electron's exclusive line of highdurability, polypropylene rotors are virtually impervious to chemical attack and may be repeatedly autoclaved without damage.

#### **Micromax Rotor/Tube Selection Chart**

Maximum Speed 15,000 rpm; maximum force 21,000 xg\*

Rotors		
Cat. No.	Description	Tubes and Tube Sizes
851	Dual tube, unsealed microtube rotor	24 x 1.5 / 2.0 ml (outer row)
		24 x 0.5 ml (inner row)
891	Sealed 24 place microtube rotor	24 x 1.5 / 2.0 ml
852	0.5 ml microtube rotor	48 x 0.5 ml
853	0.25 to 0.4 ml microtube rotor	40 x 0.4 ml
		40 x 0.25 ml
		40 x 0.8 ml glass tube
		(6 x 50 mm)
Adapters		
<b>5763</b> **	1 pkg of 12 x 0.5 ml tube adapters	12 x 0.5 ml
<b>5764</b> **	1 pkg of 12 x 0.25 / 0.4 ml tube adapters	12 x 0.4 ml

- \* A maximum force of 21,000 xg is based upon the rotating radius of 8.35cm for the 851 and 891 rotors with 1.5 -2.0 ml microtubes.
- \*\* Adapters for 851 (outer row of 24 x 1.5 / 2.0 ml holes only) and 891 rotors Order 2 pkg to fill 24 x 1.5 / 2.0 ml places on 851 or 891 rotors. Note: The 851 rotor does not require adapters to run 24 or fewer 0.5 ml microtubes.



All polypropylene microtube rotors are fully compatible with decontamination washes, including 5% bleach and Count-Off.

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#### Speed/Force Time

Set speed in RPM (up to 15,000) or force in RCF (up to 21,000 xg) Set time in seconds or minutes (up to 99 min.), momentary spin, or indefinite hold

#### The Micromax features microprocessor-based controls for added reliability.

**Temperature** Selectable temperature range is -9°C to +40°C

F**Function Keys** For start, stop, and cover open

#### Acceleration / Braking

Select gentle or fast acceleration/ braking, or coast to rest (no braking)

### **Micromax Specifications**

Specification			Dimensions		
Max. Speed:	15,000 rpm		Height:	Micromax	Micromax RF
Max. Force:	21,000 xg		Cover Closed:	9.8 in. (24.9 cm)	9.8 in (24.9 cm)
Max. No. of Tubes:	48 x 0.5 ml		Cover Open:	19.8 in. (50.3 cm)	19.8 in(50.3 cm)
Max. Sample Volume:	60 ml (24 x 2.0	ml + 24 x 0.5 ml))	Width:	12 in (30.5 cm)	12 in.(30.5 cm)
Operator Controls:			Depth:	13.3 in. (33.8 cm)	23.2 in. (58.9 cm)
Speed:	Range:	1000 - 15,000 rpm	Weight	Cat. No. 3590	Cat. No. 3592
	Increments:	100 rpm	Net:	36 lbs (16.4 kg)	70.5 lbs (32 kg)
	Accuracy:	± 10 rpm	Shipping:	46 lbs (21 kg)	83 lbs (37.7 kg)
Force (RCF):	Range:	100 - 1,000 xg		Cat. No. 3591	Cat. No. 3593, 3594, 3595
	Increments:	100 - 1,000 RCF by 50 xg	Net:	42.5 lbs (19.3 kg)	77 lbs (35 kg)
		1,000 - 10,000 RCF by 100 xg	Shipping:	52.5 lbs (23.9 kg)	90 lbs (41 kg)
		10,000 - 21,000 RCF by 200 xg			
Timer:	Range:	1 sec 99 min.			
	Increments:	0:01- 0:59, by 1 sec.			
		1:00 - 4:45, by 15 sec.			
		5:00 - 99 min, by 1 min			
	Mode:	Momentary Spin, Hold			
		(Indefinite duration)			
Temperature (RF):	Range:	-9°C to +40°C			
	Increments:	1°C			
	Repeatability:	Maintain 4°C at 15,000 rpm			
		(21,000 xg)			
Acceleration Rate Control: Fa		Fast or Slow			
Deceleration Rate Control:		Hard brake, Soft brake, Coast			
Refrigerant (Micromax	RF ONLY):	CFC-Free, R-404			

#### **Ordering Information**

Micromax Ventilated Microcentrifuge			
Cat. No.	Description	Power supply	
3590	Micromax Ventilated	100 V-120 V, 50/60 Hz	
3590F	Micromax Ventilated + 851 rotor	100 V-120 V, 50/60 Hz	
3591	Micromax Ventilated	220 - 240 V, 50/60 Hz	
3591F	Micromax Ventilated + 851 rotor	220 - 240 V, 50/60 Hz	

Micromax R	Refrigerated	Microcentrifuge
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Cat. No.	Description	Power supply
3592	Micromax RF	120 V, 60 Hz
3592F	Micromax RF + 851 rotor	120 V, 60 Hz
3593	Micromax RF	220 - 240 V, 50 Hz
3593F	Micromax RF + 851 rotor	220 - 240 V, 50 Hz
3594	Micromax RF	220 - 240 V, 60 Hz
3594F	Micromax RF + 851 rotor	220 - 240 V, 60 Hz
3595	Micromax RF	100 V, 50 Hz
3595F	Micromax RF + 851 rotor	100 V, 50 Hz

#### **Micromax Rotors / Adapters** Cat. No. Description 891 24 x 1.5 - 2.0 ml Sealed microtube rotor 24 x 1.5 - 2.0 ml + 24 x 0.5 ml 851 Dual row microtube rotor 852 0.5 ml microtube rotor 48 x 0.5 ml 853 0.25/0.4 ml microtube rotor 40 x 0.25 ml / 0.4 ml 5763\* Adapter for 0.5 ml (12/pk.) Adapter for 0.4 ml 5764 (12/pk.)

Other rotors and adapters sold separately

\* Adapters unnecessary to run up to 24 x 0.5 ml tubes in the 851 rotor.

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