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Micromax®
Microcentrifuges







Sophistication, Performance and Affordability

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Thermo ELECTRON CORPORATION

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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

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® 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 dual-row 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***.

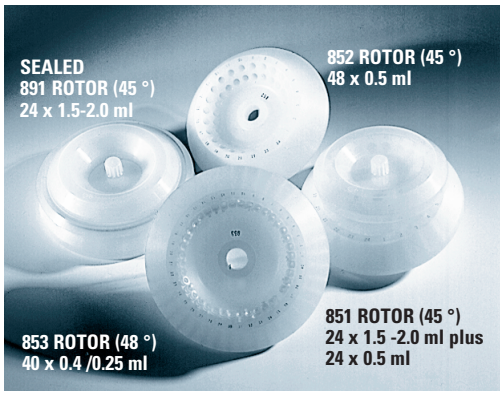
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Unique Polypropylene Microtube Rotors

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 high-durability, polypropylene rotors are virtually impervious to chemical attack and may be repeatedly autoclaved without damage.

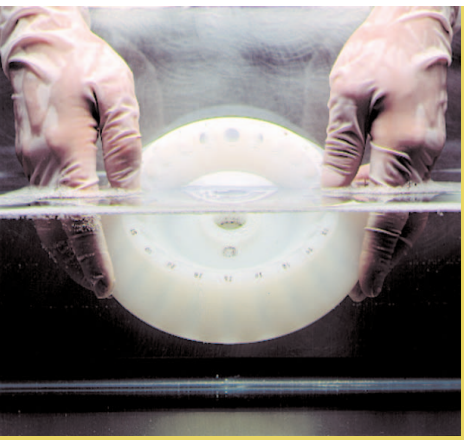
Micromax Rotor/Tube Selection Chart

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		
5763**	1 pkg of 12 x 0.5 ml tube adapters	12 x 0.5 ml
5764**	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.



The Micromax features microprocessor-based controls for added reliability.

Temperature
Selectable temperature range is –9°C to +40°C

Function Keys
For start, stop, and cover open

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

Speed/Force
Set speed in RPM (up to 15,000) or force in RCF (up to 21,000 xg)

Time
Set time in seconds or minutes (up to 99 min.), momentary spin, or indefinite hold

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Micromax Specifications

Specification

Max. Speed:	15,000 rpm	
Max. Force:	21,000 xg	
Max. No. of Tubes:	48 x 0.5 ml	
Max. Sample Volume:	60 ml (24 x 2.0 ml + 24 x 0.5 ml))	
Operator Controls:		
Speed:	Range:	1000 - 15,000 rpm
	Increments:	100 rpm
	Accuracy:	± 10 rpm
Force (RCF):	Range:	100 - 1,000 xg
	Increments:	100 - 1,000 RCF by 50 xg
		1,000 - 10,000 RCF by 100 xg
		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:		Fast or Slow
Deceleration Rate Control:		Hard brake, Soft brake, Coast
Refrigerant (Micromax RF ONLY):		CFC-Free, R-404

Dimensions

Height:	**Micromax**	**Micromax RF**
Cover Closed:	9.8 in. (24.9 cm)	9.8 in (24.9 cm)
Cover Open:	19.8 in. (50.3 cm)	19.8 in(50.3 cm)
Width:	12 in (30.5 cm)	12 in.(30.5 cm)
Depth:	13.3 in. (33.8 cm)	23.2 in. (58.9 cm)
Weight	**Cat. No. 3590**	**Cat. No. 3592**
Net:	36 lbs (16.4 kg)	70.5 lbs (32 kg)
Shipping:	46 lbs (21 kg)	83 lbs (37.7 kg)
	Cat. No. 3591	**Cat. No. 3593, 3594, 3595**
Net:	42.5 lbs (19.3 kg)	77 lbs (35 kg)
Shipping:	52.5 lbs (23.9 kg)	90 lbs (41 kg)

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 RF Refrigerated Microcentrifuge

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	Sealed microtube rotor	24 x 1.5 - 2.0 ml
851	Dual row microtube rotor	24 x 1.5 - 2.0 ml + 24 x 0.5 ml
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.)
5764	Adapter for 0.4 ml	(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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