



Thermo Scientific Medifuge Centrifuge



Greener by design™

 **Less waste:** generates up to 62% less waste at end of life than prior models and 33% less waste than comparable alternatives

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Introduction

We are committed to designing our products with the environment in mind. This fact sheet provides the rationale behind the environmental claim that the Thermo Scientific™ Medifuge™ Small Benchtop Centrifuge generates less waste than prior models and other centrifuges currently on the market. This product replaces the need to purchase two separate centrifuge models due to its unique Thermo Scientific™ DualSpin™ Rotor. An additional benefit is its smaller benchtop footprint. As a result of the hybrid, space-saving design, this centrifuge generates up to 62% less waste at the end of its useful life.

Product description

The Medifuge small benchtop centrifuge features a compact design and the unique 2-in-1 hybrid DualSpin rotor. It easily changes between fixed angle and swinging buckets using the same lightweight rotor. Four customizable programs allow you to quickly run routine protocols. Three selectable deceleration profiles, including a brake-off option, are designed to optimize separation. With spacers accommodating 1.4 mL to 15 mL tubes, the Medifuge centrifuge has the versatility to enable a full suite of routine clinical and life science separations on a single machine.

Green feature

Less waste

The DualSpin hybrid rotor enables both routine clinical and life science applications in one platform, eliminating the need to purchase a second centrifuge. Previously, labs required a fixed angle centrifuge and a separate swinging bucket centrifuge to cover their suite of protocols. Instead, this lightweight, 8-place rotor features a unique hybrid design with interchangeable fixed angle and swinging buckets. It can be switched between modes with a simple turn of the locking knob, requiring no additional tools.

Two spacer options allow it to accommodate 1.4 mL to 15 mL tubes while operating as either a fixed angle or swinging bucket centrifuge. It can even run both fixed angle and swinging buckets at the same time to compare separation performance. This allows the user to fine-tune protocols to save time and reduce additional tube and sample waste.



Figures 1 & 2. Thermo Scientific Medifuge Small Benchtop Centrifuge.

Figure 3. Thermo Scientific DualSpin rotor configurations. (1) fixed angle, (2) swinging bucket and (3) fixed angle and swinging bucket.

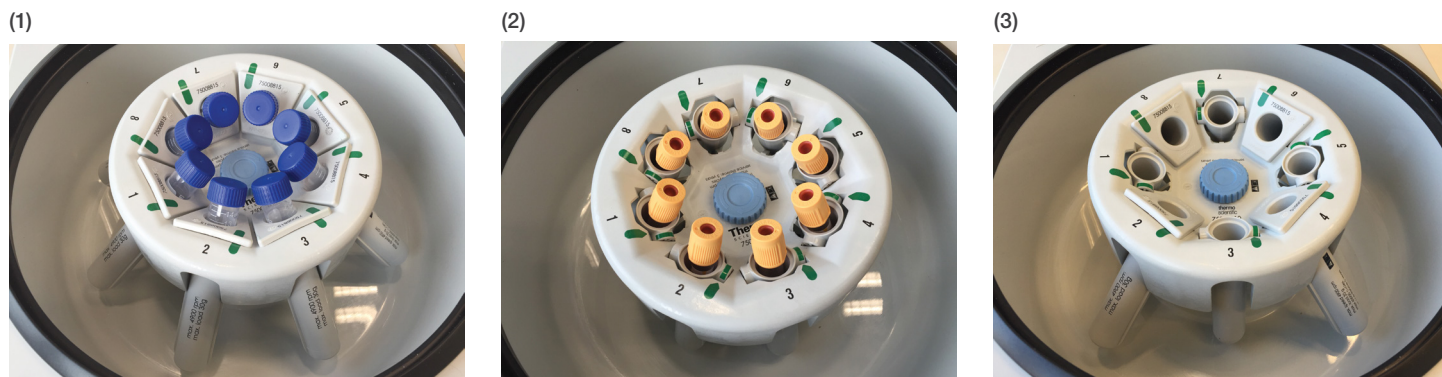


Table 1. Comparison of centrifuge weight as waste generated at product's end of life.

Centrifuge model	Rotor type	Instrument weight (kg)	Weight for equivalent combined functionality (kg)	Weight reduction (kg)	Waste reduction with Medifuge model
Medifuge Small Benchtop Centrifuge	DualSpin	15.5	15.5	—	—
Thermo Scientific™ Labofuge™ 200 Centrifuge	Fixed angle	10.7	40.7	25.2	62%
Thermo Scientific™ Labofuge™ 300 Centrifuge	Swinging bucket	30.0			
Hettich™ EBA 200 Small Centrifuge	Fixed angle	9.0	23.0	7.5	33%
Hettich EBA 270 Small Centrifuge	Swinging bucket	14.0			

Table 2. Comparison of benchtop footprint for centrifuge models.

Centrifuge model	Rotor type	Overall instrument footprint (W x D x H mm)	Benchtop footprint area (mm ²)	Benchtop footprint area for equivalent combined functionality (mm ²)	Footprint reduction with Medifuge model
Medifuge Small Benchtop Centrifuge	DualSpin	325 x 450 x 240	146,250	—	—
Labofuge 200 Centrifuge	Fixed angle	284 x 375 x 240	106,500	287,000	49%
Labofuge 300 Centrifuge	Swinging bucket	380 x 475 x 315	180,500		
Hettich EBA 200 Small Centrifuge	Fixed angle	261 x 353 x 228	92,133	224,133	35%
Hettich EBA 270 Small Centrifuge	Swinging bucket	330 x 400 x 241	132,000		

Designing the Medifuge Small Benchtop Centrifuge to generate significantly less waste while delivering unparalleled flexibility in a smaller footprint is a win for our customers, our company and the planet. Our commitment to environmental responsibility doesn't end there. Our centrifuges are also manufactured at the Osterode am Harz, Germany site, that procures 100% of their electric energy from renewable sources.

Find out more at thermofisher.com/centrifuges

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