

# Smart Notes

Enhanced energy savings  
and sustainability



## How is it possible to reduce energy consumption and environmental impact with production-level centrifuges?

Large capacity centrifuges are critical instruments in both blood banking and bioprocessing applications. Often used in production environments on a 24 hours per day, seven days per week schedule, these centrifuges can significantly contribute to the overall energy consumption of the lab.

To manage energy and environmental impact, several sustainable features are available for today's centrifuges including:

- Energy-efficient rotor design
- Increased capacity compared with legacy systems
- Efficient cooling system
- Environmentally-friendly packaging of centrifuge and accessories

Total system sustainability in compliance with RoHS (Restriction of Hazardous Substances) and WEEE (Waste Electrical and Electronic) directives also ensures that hazardous substances are avoided, environmental pollution is reduced and electronic substances are optimally designed.

### NEW! Thermo Scientific™ large capacity centrifuges:

Thermo Scientific™ Sorvall™ BP 8 and 16

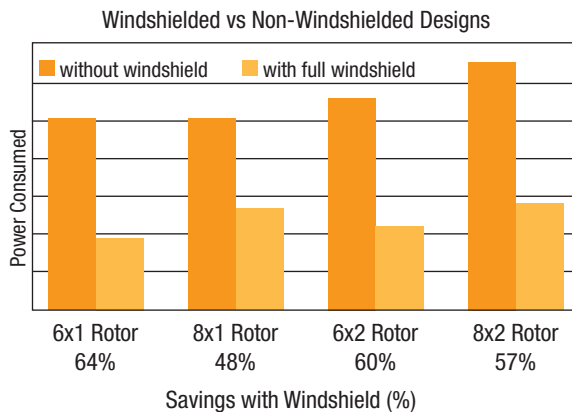
Thermo Scientific™ Heraeus™ Cryofuge™ 8 and 16

Thermo Scientific™ Sorvall™ BIOS 16

### Energy-Efficient Rotor Design

- NEW! Thermo Scientific large capacity centrifuges achieve up to 64% energy savings with Thermo Scientific™ Eco-Spin™ windshielded rotors when compared with non-windshielded rotors<sup>1</sup>.

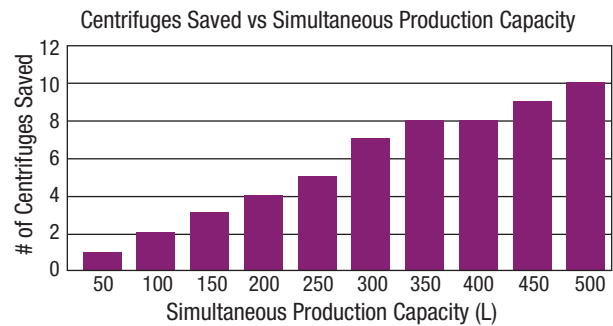
<sup>1</sup> Based on an engineering evaluation of windshielded and non-windshielded designs of the same rotor body.



### Increased Capacity up to 33%

- Three new large capacity centrifuges can separate the same amount of samples as four legacy units, realizing significant energy consumption and footprint savings as the volume of simultaneous centrifugation is increased<sup>2</sup>.

<sup>2</sup> Based on comparison of maximum capacity of new and legacy centrifuges.



### Efficient Cooling System

- No CFC refrigerant is used and scheduled cooling programs allow for the compressor to be used only when necessary.
- Energy-savings mode shuts off the automatic cooling function when the instrument is not in use. Additionally, the cooling system is shut off with the Thermo Scientific™ Auto-Door™ centrifuge opening.

### Eco-Friendly Product Packaging

- Employs more than 75% recycled material and no polystyrene foam, but rather biodegradable foam pellets and foam-in-place methods. In addition, the glue used for the cardboard box is produced from natural raw-material.
- Supports forest ecosystem management with fresh wood fiber for transportation, produced on sustainable plantations where each tree cut down is replaced by two new plants. Inbound wooden pallets are also re-used rather than discarded.



### Summary

In a production environment of continuous use, Thermo Scientific large capacity centrifuges provide substantial energy savings in an eco-friendly package through the use of Eco-Spin windshielded rotors, innovative cooling control features, increased capacity and modern packaging.

▶ Experience our large capacity centrifuges now at [www.thermofisher.com/largecapcentrifuges](http://www.thermofisher.com/largecapcentrifuges)

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**Australia** +61 39757 4300  
**Austria** +43 1 801 40 0  
**Belgium** +32 53 73 42 41  
**China** +800 810 5118 or  
 +400 650 5118  
**France** +33 2 2803 2180  
**Germany national toll free** 0800 1 536 376  
**Germany international** +49 6184 90 6000

**India toll free** 1800 22 8374  
**India** +91 22 6716 2200  
**Italy** +39 02 95059 552  
**Japan** +81 3 5826 1616  
**Netherlands** +31 76 579 55 55  
**New Zealand** +64 9 980 6700  
**Nordic/Baltic/CIS countries**  
 +358 10 329 2200

**Russia** +7 812 703 42 15  
**Spain/Portugal** +34 93 223 09 18  
**Switzerland** +41 44 454 12 12  
**UK/Ireland** +44 870 609 9203  
**USA/Canada** +1 866 984 3766

**Other Asian countries** +852 2885 4613  
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