



*Time to rotate your centrifuge.*

**AVANTI® J-E**  
CENTRIFUGE SYSTEM

FOR REPLACEMENT » NEW » 5 YEARS » 10 YEARS » 15 YEARS » READY



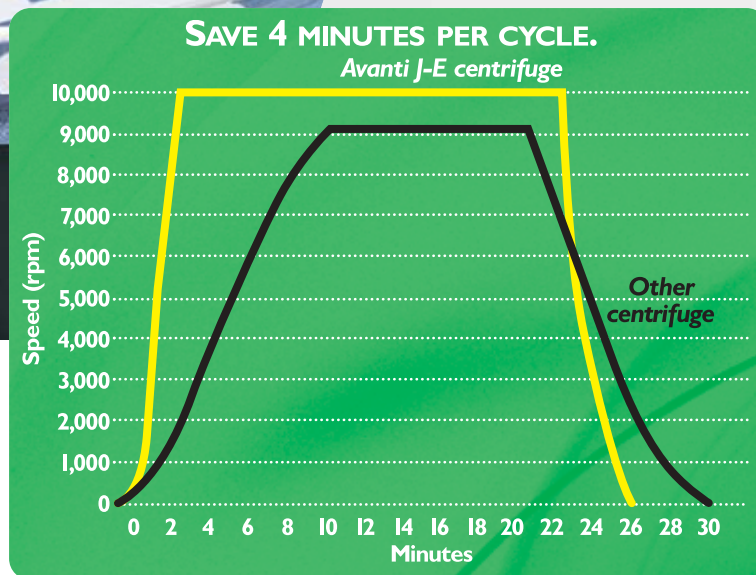
## *Turn to a more accommodating lab assistant.*

What separates our Avanti® J-E from your old centrifuge are little improvements that make a big difference in your day-to-day research. Like speeds up to 21,000 rpm (53,300 x g), coupled with powerful SR drive technology for fast separations. Energy efficiency for low heat output. Plus quiet operation to ensure a comfortable, productive work environment. All combined in a compact, versatile system that works to accommodate you. So you can spend more time on your science.



### *Quick on the job.*

*Shorter run times mean more discovery time for you. Avanti J-E's high-torque, switched reluctance (SR) drive gives you more time at speed and less time getting there. Built for convenience, it's imbalance tolerant with low maintenance, brushless technology.*





### *Shares lab space with others.*

*We know lab space is at a premium, so we made Avanti J-E about the size of a portable dishwasher. This smaller footprint gives you the freedom to place it right in your lab, so it's where you need it, when you need it.*



### *Helps lighten workload.*

*When you use something as much as your centrifuge, rotor access should be quick and easy. Avanti J-E's short instrument height and contoured front panel help ease the burden of rotor installation and retrieval. Even the large can size gives you a more assured grip.*



### *Conservative and resourceful.*

*Avanti J-E uses a vacuum to reduce friction on the rotor, allowing for a smaller motor and compressor that generate less heat, and less energy usage. These energy-efficient components not only prolong the life of the centrifuge, but also increase your savings when amortized over time.*



### *Easy to get along with.*

*Avanti J-E does everything it can to facilitate your process—from displaying a list of rotors for fast run setup to automatically recalling speed settings in repetitive runs. It also maximizes safety by providing proper rotor identification during acceleration.*



## *See how well Avanti J-E fits in.*

Why waste time traveling to and from a remote instrument room? Avanti J-E's small footprint and energy-efficient operation complement you and your workspace. But don't let Avanti J-E's diminutive size mislead you. This high-performance system delivers all the capability and versatility you need to run a wide variety of applications.



### *Fills any order.*

*Avanti J-E's attention to detail makes operation and control touch-pad simple. Speed, time, and temperature keys are conveniently grouped together. Intuitive programming stores individual runs for repetitive operations. While a set temperature range and individual speed rates fit your application needs.*



### *Widely respected in rotors.*

*For volume requirements ranging from microplates to 1-liter bottles, Avanti J-E's extensive rotor library maximizes capacity and optimizes g-force. The library includes: general purpose, high capacity (4 liter), and biosafe certified rotors with patented dual-locking lids for safe sample transportation.*



### *Popular for labware.*

*Choose from a full line of tubes, bottles, and microtiter plates to meet your changing needs. Selected tubes and bottles are resistant to a variety of chemical compounds, and can be sterilized and reused for greater cost-efficiency. DNA microtiter carrier plates and adapters for conical tubes and bottles add to Avanti J-E's versatility.*



### *Always at your disposal.*

*HarvestLine™ System Liners eliminate time-consuming manual scraping of harvested solids from labware, while enhancing operator biosafety. These unique, disposable liners retain pellets after decanting, and can be easily sealed, frozen and stored.*



### *Doesn't disturb coworkers.*

*No more grating sounds from doors slamming to signal the start of a run. Avanti J-E introduces a self-locking door that quietly pulls itself shut and secures with a double locking latch for safe, silent operation.*













# The right applicant for your application.

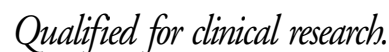
Whether your application is related to Cellomics, Genomics or Proteomics, Avanti J-E provides you with a comprehensive suite of rotors and a wide assortment of labware to satisfy your application requirements. The matrix below combines the application with the rotor to help you make the right choice.

## AVANTI J-E ROTOR SELECTION GUIDE\*

		Rotor							
									
		JS-5.3	JS-13.1	JA-10	JA-12	JA-14	JA-17	JA-18	JA-20
Bioseparation	Proteins		•	•	•	•	•	•	•
				•				•	•
		•							
		•	•	•	•	•	•	•	•
		•	•						
Subcellular Fractions	Chromatin/Nucleosomes						•	•	•
	Sucrose gradient isolation								
Microsomes	Pelleting								•
	Sucrose gradient isolation							•	•
	Microsomal membrane fraction							•	•
Mitochondria	Pelleting								•
	Sucrose gradient isolation							•	•
Nucleic	Pelleting					•	•	•	•
Cell membranes	Pelleting					•	•	•	•
	Sucrose gradient isolation						•	•	•
	Binding studies	•	•				•	•	•
Ribosomes	Pelleting						•	•	•
Polysomes	Sucrose gradient isolation								•
Cytosol	Clarification					•	•	•	•
Lysate/Tissue Homogenates	Clearing debris and large particles	•	•	•	•	•	•	•	•
Clearing media		•		•					
Nucleic Acids	Pelleting Alcohol precipitation		•	•	•	•	•	•	•
	Phenol/chloroform extraction	•	•						
	Minipreps in 96-well plates	•							
	Spin columns	•							
		•	•	•	•	•	•	•	•
Cells	Pelleting bacteria	•	•	•	•	•	•	•	•
	Pelleting mammalian cells	•	•	•	•	•	•	•	•
	Density gradient separation	•	•		•	•	•	•	•
Viruses	Pelleting								•
	PEG precipitates	•	•		•	•	•	•	•
	Density gradient isolation								•
Blood	Pelleting		•	•	•	•	•	•	•
	Plasma protein precipitation	•	•	•	•	•	•	•	•
	Blood component separation	•	•	•					
	Ficoll-Hypaque and other commercial reagents to isolate blood cells	•	•	•					



*Avanti J-E provides the fastest acceleration and deceleration rates in the general-purpose market. With a heat output two-thirds less than the competition, its energy-efficiency translates to lower electric bills. And with a noise level more closely related to conversation, Avanti J-E creates a tranquil environment that gives you the freedom to think.*



*Conical tubes and bottles for Avanti JE's swinging bucket rotor accommodate 15, 50, 250 and 500 mL capacity for effective blood component isolations using a variety of commercially available gradient kits. Fast acceleration and deceleration times guarantee that your material remains viable after the separation.*



*As advances in life sciences yield phenomenal improvements, researchers face growing pressure to do more with less. That's why Beckman Coulter has maintained its excellent reputation for service and support. As a result, thousands of our instruments are installed worldwide. All backed by our online, onsite and on-call support.*

[illegible]

\*Older rotors may run at reduced speeds.