

# Avanti J-30I

Higher performance. Incredible speed.



Brilliance  
*at every turn.*





## ACCELERATE YOUR DISCOVERY PROCESS.

The Avanti J-30I high-performance centrifuge system gives you the fastest separations possible, in the shortest amount of time. With either of two specific rotors, the Avanti J-30I can achieve forces in excess of 100,000 x g at up to 30,000 rpm—speeds that are sure to add momentum to your workflow.

Accommodating both swinging bucket and fixed-angle rotors, the Avanti J-30I provides unmatched acceleration and deceleration rates, so your sample spends more time at full force and less time in the centrifuge. Process up to 10 microplates in a single run. Spend less time waiting, and gain greater control over your workflow.

### SPECIFICATIONS

**Maximum Speed/g-Force**

**Maximum Capacity**

**Speed Control**

**Set Temperature**

**Temperature Control**

**Ambient Operating Range**

**Accel/Decel Profiles**

**Heat Output**

**Drive Type/Cooling**

**Refrigeration**

**Sterile Filter**

**Sound Level**

**Dimensions**

**Weight**

#### Avanti J-30I

30,000 rpm/110,500 x g

4 Liters

±0.15% rpm of set speed

-20° C to 40° C in 1° increments

±2° C of set temperature after equilibration

16° C to 38° C

12/13

≤6900 BTU/hr (2.0 kW)

SR\* drive/Air-cooled

Non-CFC, non-ozone depleting refrigerant

Available

<57 dBa (0.91 m/3 ft from instrument at maximum speed)

71W x 86D x 86H cm (28W x 34D x 34H in)

310 kg (680 lb)

\*SR drives are manufactured by Beckman Coulter with technology licensed from Switched Reluctance Drives Limited.





## ORDERING INFORMATION

### AVANTI SERIES CENTRIFUGE MODELS

Model	Part No.	Description
Avanti J-30I	363118	200/208/240V, 50/60 Hz
Avanti J-30I	363120	230V, 50 Hz
Avanti J-30I	363121	220V, 50 Hz, 3-phase
BioSafe** Avanti J-30I	A20691	200/208/240V, 50/60 Hz
BioSafe** Avanti J-30I	A20692	230V, 50 Hz
BioSafe** Avanti J-30I	A20693	220V, 50 Hz, 3-phase

### FIXED-ANGLE ROTORS

	Rotor Type	Part No.	Max Speed (rpm)	Max RCF, x g	k Factor	No. Tubes x Volume (mL)	Max Tube Size (mm)	Rotor Capacity
	JA-30.50 Ti	363421 Single-Locking Lid 363420 Dual-Locking Lid	30,000	108,860	280	8x50	29x104	400 mL
<b>BIO</b> <b>C</b>	JA-25.50	363055 Single-Locking Lid <sup>§</sup> 363058 Dual-Locking Lid	25,000	75,600	418	8x50	29x104	400 mL
<b>BIO</b> <b>C</b>	JA-25.15	363054 Single-Locking Lid <sup>§</sup> 363050 Dual-Locking Lid	25,000	74,200	265	24x15	18x100	360 mL
<b>BIO</b> <b>C</b>	JA-20.1	342095	20,000	51,500	371	32x15	18x99	480 mL
	JA-21	334845	21,000	50,400	470	18x10	16x80	180 mL
<b>BIO</b> <b>C</b>	JA-20	334831	20,000	48,400	769	8x50	29x104	400 mL
<b>BIO</b> <b>C</b>	JA-18	369679	18,000	47,900	566	10x100	38x102	1 L
	JA-18.1	347824	18,000	42,100	156	24x1.8	11x39	43.2 mL
<b>BIO</b> <b>C</b>	JA-17	369691	17,000	39,800	690	14x50	29x104	700 mL
<b>BIO</b> <b>C</b>	JLA-16.250	363934 Single-Locking Lid <sup>§</sup> 363930 Dual-Locking Lid	16,000	38,400	1,090	6x250	62x120	1.5 L
<b>BIO</b> <b>C</b>	JA-14	339247	14,000	30,100	1,764	6x250	62x120	1.5 L
<b>BIO</b> <b>C</b>	JA-12	360993 Single-Locking Lid <sup>§</sup> 360992 Dual-Locking Lid	12,000	23,200	1,244	12x50 Conical	30x115	600 mL
<b>BIO</b> <b>C</b>	JLA-10.500	369681	10,000	18,500	2,840	6x500	69x160	3 L
	JA-10	369687	10,000	17,700	3,610	6x500	69x160	3 L
	JLA-9.1000	366754	9,000	16,800	2,540	4x1,000	95x191	4 L

Dual-Locking Lids provide sample containment by enabling the rotor to remain sealed while being transported to a biocontainment hood.

<sup>§</sup>Single-locking lid versions of these rotors are not BioCertified.

\*\***BioSafe** and **Biosafety** are terms intended to describe the enhanced biocontainment features of our products. Elutriation systems are available. Please contact your sales representative.

**BIO****C** **BioCertified** is a term used to describe our products which have been tested and validated to demonstrate containment of microbiological aerosols by an independent, third-party facility (Health Protection Agency, Porton Down, UK or USAMRIID, Ft. Detrick, MD, USA). Improper use or maintenance may affect seal integrity and, thus, containment.



SWINGING BUCKET ROTORS							
Rotor Type	Part No.	Max Speed (rpm)	Max RCF, x <i>g</i>	k Factor	No. Tubes x Volume (mL)	Max Tube Size (mm)	Rotor Capacity
JS-24.15	362396	24,000	110,500	376	6x15	16x96	90 mL
JS-24.38	360743	24,000	103,900	334	6x38.5	25x89	231 mL
JS-13.1	346963	13,000	26,500	1,841	6x50	29x104	300 mL
JS-7.5	336380	7,500	10,400	5,287	4x250	62x136	1 L
JS-5.9	369331	5,900	6,570	—	10 Microplates	—	—

CONTINUOUS FLOW AND ZONAL ROTORS					
Rotor Type	Part No.	Max Speed (rpm)	Max RCF, x <i>g</i>	k Factor	Max Volume (mL)
JCF-Z Large Core	357521	20,000	39,900	293	1,250
JCF-Z Standard Core	335140	20,000	39,900	100	660
JCF-Z Reorienting Gradient Core	354005	20,000	39,000	779	1,750
JCF-Z Zonal Core	354006	20,000	39,900	710	1,900
JCF-Z Small Core	357544	20,000	36,300	281	240

Maximum rotor speeds may differ between instrument models.

# Avanti J-30I

Gain momentum. Gain control.

Beckman Coulter helps create the world's most productive and efficient laboratories by providing the finest centrifuges available. Finest, and most accommodating. Because we believe life-altering research should not be confined by the size of a lab, or the size of its throughput.

With the Avanti Series, we've set an all-new standard for enhanced performance and flexibility. Limits are now a thing of the past. In the footsteps of our founder, Beckman Coulter remains dedicated to your resourcefulness.

## Service and Support

When you invest in Beckman Coulter instruments, you're backed by an incomparable support organization. In North America, our customer support center directs a team of engineers with extensive product knowledge who have the power to solve your technical problems quickly and efficiently. And no matter where you are in the world, as a Beckman Coulter customer you have access to experienced, courteous service long after your initial purchase. Because when your issues are taken care of, you can return your attention to critical tasks.



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