

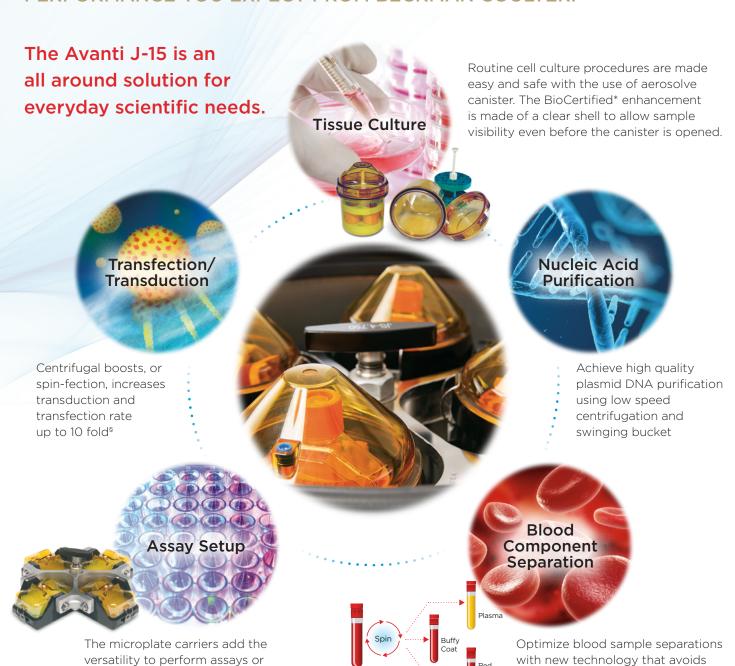






FROM GENERAL CELL CULTURE PREPARATIONS TO PURIFIED END PRODUCT APPLICATIONS

THE NEW AVANTI J-15 SERIES IS PART OF A NEW FAMILY OF LIFE SCIENCE EQUIPMENT THAT PROVIDES THE EXCEPTIONAL PERFORMANCE YOU EXPECT FROM BECKMAN COULTER.



sample interface disturbances[¥]

Brilliance at Every Turn

grow cells in a plate format

[§] Berggren, W. Travis, Margaret Lutz, and Veronica Modesto. General spinfection protocol. StemBook (2012).

ENHANCED CONTROL OF SAMPLE, TIME AND WORKFLOW



The Ultra Harmonic Technology optimizes sample separation by reducing the net changes of forces to the sample, maximizing the amount of specimen presence in the pellet, and reducing the presence of contaminants or unpelleted materials in the supernatant

4350

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It also optimizes time by implementing faster acceleration and deceleration profiles without compromising on sample quality.



BIOC

 BioCertified has been tested and validated to demonstrate containment of microbial aerosols by an independent third party facility (Health Protection Agency, Porton Down, UK or USAMRIID, Ft. Detrick, MD, USA).

or microbiology

With our truly ventilated unit while processing any protocol

in cell culture, blood separation

Ease of Use and Faster Accessibility

Icon usability and intuitive display on high contrast color LCD screen

MULTI-DIMENSIONAL IMBALANCE TOLERANCE

IMPROVES CONFIDENCE AND ACCURACY IN THE DETECTION OF IMBALANCED CONDITIONS WHILE REDUCING NUISANCE IMBALANCE DIAGNOSTICS.



Early Imbalance Detection

Increases confidence on experimental runs

We've optimized our sensitivity to detect rotor imbalance as close to the beginning of the run as possible. That means the user can set the experiment and walk away with confidence. This saves time and protects the sample.



True Imbalance Detection Within 30 Seconds

Reduces false diagnostics

Our improved hardware and software accurately respond to true imbalance without triggering nuisance imbalance diagnostics. This feature reduces the hassle and downtime during the workflow.



FASTER CHAMBER COOLING

4 in 4

The Avanti J-15R cooling capabilities are fast and consistent.

The Avanti J-15R cools from room temperature to 4° C in 4 minutes, allowing the user to protect the samples while completing the runs faster.[†]



ROTOR ACCESSORIES AND PACKAGES

FIXED ANGLE

AVANTI J-15 SERIES FIXED ANGLE PACKAGES

Includes benchtop centrifuge and BioCertified* JA-10.100 (6 x 100 mL) fixed angle rotor.

Adapters, tubes/bottles are NOT included and can be ordered separately.

Part Number	Description
C19393	Avanti J-15, IVD, Ventilated, 200-230 V, 50/60 Hz, Fixed Angle Package
C19392	Avanti J-15R, IVD, Refrigerated, 120 V, 60 Hz, Fixed Angle Package
C19394	Avanti J-15, Ventilated, 200-230 V, 50/60 Hz, Fixed Angle Package
C19391	Avanti J-15R, Refrigerated, 120 V, 60 Hz, Fixed Angle Package
C19389	Avanti J-15R, Refrigerated, 200-230 V, 50/60 Hz, Fixed Angle Package
C19390	Avanti J-15R, IVD, Refrigerated, 200-230 V, 50/60 Hz, Fixed Angle Package



- 600 mL Maximum Capacity
- 10,200 RPM
 11,420 x g RCF
- Biosafety Lid

Table 1: Bottle and Tube Adapters for the JA-10.100 Rotor^a

Adapter Part Number (Set of 6)			Nominal Tube Volume (mL)
392830	round-bottom tube or bottle	29 x 108	50
392268	conical tube	30 x 115	50
392823	bottle	18 x 107	15
392270	conical tube	17 × 120	15
392824	round-bottom bottle	16 x 82	10
344497°	microfuge tube	11 x 39	1.5

- a. Unless otherwise indicated, adapters are polypropylene
- b. Observe manufacturer's recommendations for RCF and temperature limitations.
- c. 344497 fits in 392830.

ROTORS ACCESSORIES AND PACKAGES

SWINGING BUCKET

AVANTI J-15 SERIES SWINGING BUCKET PACKAGES

Includes benchtop centrifuge and BioCertified* JS-4.750 (4 x 750 mL) swinging bucket rotor.

(Rotor is BioCertified* when used with lid, bucket covers or aerosolve canister.)

Adapters, tubes/bottles, bucket covers and aerosolve canisters are NOT included and can be ordered separately.

Part Number	Description
C19399	Avanti J-15, IVD, Ventilated, 200-230 V, 50/60 Hz, Swinging Bucket Package
C19398	Avanti J-15R, IVD, Refrigerated, 120 V, 60 Hz, Swinging Bucket Package
C19400	Avanti J-15, Ventilated, 200-230 V, 50/60 Hz, Swinging Bucket Package
C19397	Avanti J-15R, Refrigerated, 120 V, 60 Hz, Swinging Bucket Package
C19395	Avanti J-15R, Refrigerated, 200-230 V, 50/60 Hz, Swinging Bucket Package
C19396	Avanti J-15R, IVD, Refrigerated, 200-230 V, 50/60 Hz, Swinging Bucket Package



Aerosolve Canisters

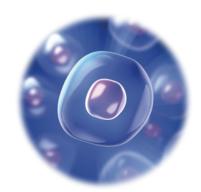
- 3 liter Maximum Capacity
- 4,739 RPM/5,250 x g RCF (200-230V)
- 4,540 RPM/ 4,820 x g RCF (120V)

AVANTI J-15 SERIES MICROPLATE PACKAGES

Includes benchtop centrifuge and JS- 4.750μ microplate rotor (yoke with microplate carriers).

Microplates and microplate covers are NOT included and can be ordered separately.

Part Number	Description
C19405	Avanti J-15, IVD, Ventilated, 200-230 V, 50/60 Hz, Microplate Package
C19404	Avanti J-15R, IVD, Refrigerated, 120 V, 60 Hz, Microplate Package
C19406	Avanti J-15, Ventilated, 200-230 V, 50/60 Hz, Microplate Package
C19403	Avanti J-15R, Refrigerated, 120 V, 60 Hz, Microplate Package
C19401	Avanti J-15R, 200-230 V, 50/60 Hz, Microplate Package
C19402	Avanti J-15R, IVD, 200-230 V, 50/60 Hz, Microplate Package



AVANTI J-15 SERIES CELL CULTURE PACKAGES

Includes benchtop centrifuge and BioCertified* JS-4.750 (4 x 750 mL) swinging bucket rotor, 15 mL conical tube adapters (qty 4) and 50 mL conical tube adapters (qty 4). (Rotor is BioCertified* when used with bucket covers.)

Bucket covers and tubes/bottles are NOT included and can be ordered separately.

Part Number	Description
C19417	Avanti J-15, IVD, Ventilated, 200-230 V, 50/60 Hz, Cell Culture Package
C19416	Avanti J-15R, IVD, Refrigerated, 120 V, 60 Hz, Cell Culture Package
C19418	Avanti J-15, Ventilated, 200-230 V, 50/60 Hz, Cell Culture Package
C19415	Avanti J-15R, Refrigerated, 120 V, 60 Hz, Cell Culture Package
C19413	Avanti J-15R, Refrigerated, 200-230 V, 50/60 Hz, Cell Culture Package
C19414	Avanti J-15R, IVD, Refrigerated, 200-230 V, 50/60 Hz, Cell Culture Package

Table 2: Additional Biosafety accessories for personal protection and sample protection

392805 BIOC	JS-4.750 Tube-Bottle Bucket Covers (Set of 2)
393070 BIOC	JS-4.750 Multi-well Plate Carrier Cover (Set of 2)
392804	JS-4.750 Replacement Tube-and-bottle bucket (set of 2)
392806	JS-4.750 Multi-well plate carrier (set of 2)
359481 BIOC	JS-4.750 Aerosolve Canister (Set of 2)



JS-4.750µ Rotor (Microplates and microplate covers are not included.)

- 16 Plate Capacity
- 4,450 RPM/4,060 x g RCF (200-230V)
- 4,350 RPM/ 3,880 x g RCF (120V)

ROTORS ACCESSORIES AND PACKAGES

SWINGING BUCKET

AVANTI J-15 SERIES BIOSAFE PACKAGES

Includes benchtop centrifuge and BioCertified* JS-4.750 (4 x 750 mL) swinging bucket rotor, BioCertified* aerosolve canisters (qty 4), 15 mL conical BioSafe aerosolve canister tube racks (qty 4) and 50 mL conical BioSafe aerosolve canister tube racks (qty 4). (Rotor is BioCertified* when used with aerosolve canisters.)

Tubes/bottles are NOT included and can be ordered separately.

Part Number	Description
C19411	Avanti J-15, IVD, Ventilated, 200-230 V, 50/60 Hz, BioSafe Package
C19410	Avanti J-15R, IVD, Refrigerated, 120 V, 60 Hz, BioSafe Package
C19412	Avanti J-15, Ventilated, 200-230 V, 50/60 Hz, BioSafe Package
C19409	Avanti J-15R, Refrigerated, 120 V, 60 Hz, BioSafe Package
C19407	Avanti J-15R, Refrigerated, 200-230 V, 50/60 Hz, BioSafe Package
C19408	Avanti J-15R, IVD, Refrigerated, 200-230 V, 50/60 Hz, BioSafe Package



AVANTI J-15 SERIES BLOOD SAMPLE PACKAGES

Includes benchtop centrifuge and BioCertified* JS-4.750 (4 x 750 mL) swinging bucket rotor, 13 mm diameter tube adapters (qty 4) and 16 mm diameter tube adapters (qty 4). (Rotor is BioCertified* when used with bucket covers.)

Bucket covers and tubes/bottles are NOT included and can be ordered separately.

Part Number	Description
C19423	Avanti J-15, IVD, Ventilated, 200-230 V, 50/60 Hz, Blood Sample Package
C19422	Avanti J-15R, IVD, Refrigerated, 120 V, 60 Hz, Blood Sample Package
C19424	Avanti J-15, Ventilated, 200-230 V, 50/60 Hz, Blood Sample Package
C19421	Avanti J-15R, Refrigerated, 120 V, 60 Hz, Blood Sample Package
C19419	Avanti J-15, Refrigerated, 200-230 V, 50/60 Hz, Blood Sample Package
C19420	Avanti J-15, IVD, Refrigerated, 200-230 V, 50/60 Hz, Blood Sample Package



Table 3: Modular Disk Adapters (polypropylene).

Color	Nom. Tube	Nom. Tube	be Max. No. of	Max. No. Tubes in	Adapter Part No.	
Code	Vol. (mL)	Dia. (mm)	Tubes per Adapter	Rotor	Set of 2	Set of 4
blue	3 5	10 12	37	148	359469	359148
tan	3 & 5	13	30	120	359478	359157
orange	7 & 10	14	24	96	359470	359149
purple	12	16	19	76	359471	359150
green conical	15	18	14	56	359472	359151
green	15 & 20	18	14	56	359473	359152
lt. green conical	30 & 50	30	4	16	359475	359154
yellow	50	29	7	28	359474	359153
dk. blue	50	35	4	16	359476	359155

Table 4: Cell Culture Flask Adapters (EPDM)

Color Code	Flask Size (cm²)	No. Flasks per Adapter	Part No. (Qty 2)
orange	75	1	369292
green	25	2	369295



COMPLIANCE AND TECHNICAL SUPPORT

- At Beckman Coulter, engineering, sales, support, training and service work together to offer comprehensive and extensive customer focused products.
- Expert service engineering team strives for "Fix It Right the First Time."
- Certifications of Compliance.





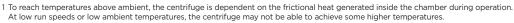
Specification	Description	Avanti J-15	Avanti J-15R	
	Set Speed	200 to 10,200 RPM in 10 RPM increments	200 to 10,200 RPM in 10 RPM increments	
	Set RCF	10 to 11,420 x g in 10 x g increments 10 to 11,420 x g in 10 x g incre		
Speed	Speed Display	Actual rotor speed in 10 RPM increments or actual RCF in 10 x g increments		
	Speed Accuracy	±25 RPM of Set Speed from 200 to 10,200 RPM		
	Set Time	1 minute to 99 hours and 59 r	minutes or continuous (Hold)	
Time	Time Display	Timed run: indicates run ti Hold run: indicates ela Pulse run: indicates ela	osed time (HH:MM:SS)	
	Set Temperature		-10 to +40° C in 1° C increments	
	Temperature Display	N/A	Chamber temperature in 1° C increments	
Temperature	Temperature Accuracy ¹	. • . • . •	±2° C of Chamber temperature (after equilibration); applies to 4 to 25°C temperature range	
	Over Temperature Shutdown ²	> 55° C	> 55° C	
Acceleration	Acceleration Profiles	10 acceleration rates, inc	luding maximum torque	
Deceleration	Deceleration Profiles	11 deceleration rates, including maximum torque and no braking		
	Width	55.6 cm (21.9 in)	75.6 cm (29.8 in)	
Dimensions	Depth	74.9 cm (29.5 in)	70.3 cm (27.7 in)	
	Height	36.8 cm (14.5 in)	36.8 cm (14.5 in)	
Weight	Weight, not including rotor	93 kg (205 lbs)	120 kg (265 lbs)	
Ventilation	Sides	7.6 cm (3.0 in)	7.6 cm (3.0 in)	
Clearances ³	Rear	7.6 cm (3.0 in)	7.6 cm (3.0 in)	
	Top Surface	Painted steel		
Finishes	Front Surface	Uncoate	d plastic	
	Door	Painted aluminum and plastic		
	Electrical Requirements	100V, 12A, 50/60Hz 120V, 10A, 50/60Hz	120V, 12A, 60Hz	
Electrical	Electrical residents	200-230V, 6A, 50/60Hz	200-230V, 8A, 50Hz 208-230V, 9A, 60Hz	
	Electrical Supply	Class 1		
	Installation (overvoltage) Category	I	<u> </u>	
	Noise output (1 m in front of instrument, 1.5 m above the floor with JA-10.100 rotor at 10,200 RPM)	61 dBA	58 dBA	
	Ambient Temperature Range	10 to 31° C	10 to 35° C	
	Humidity	80%, noncondensing	80%, noncondensing	
Environmental	Refrigerant	N/A	R404A	
	Maximum Heat Dissipation under steady state conditions	4095 Btu/h (1.2 kW)	120V: 4913 Btu/h (1.44 kW) 200-230V: 6551 Btu/h (1.92 kW)	
	Pollution Degree ⁴	2		
	Altitude	Up to 2,000 meters		
Technology	Ultra Harmonic Technology	✓	✓	

Providing 70 years of global leadership in centrifugation, Beckman Coulter Life Sciences designs, manufactures, sells, and services a complete line of centrifuge systems. By offering unique rotors and innovative bottles, tubes and accessories. coupled with advanced centrifugation software, Beckman Coulter delivers intelligent centrifugation solutions to laboratory science.

Learn more at **beckman.com**

Instruments		Instruments	
Item No.	Item Description	Item No.	Item Description
B99515	Avanti J-15R, IVD, 200-230 VAC	B99517	Avanti J-15R, IVD, 100-120 VAC
B99514	Avanti J-15R, 200-230 VAC	C01994	Avanti J-15, IVD, 100-120 200-230 VAC
B99516	Avanti J-15R, 100-120 VAC	C01995	Avanti J-15, 100-120 200-230 VAC

Rotors	
Item No.	Item Description
B77580	Rotor Assembly, JS-4.750
B77584	Rotor Assembly, JA-10.100
B83980	Rotor Assembly, JS-4.750 Microplate Carriers
277001	· ·



- 2 If the system reaches this temperature, it will issue a diagnostic and shut down using maximum brake.
- 3 When operating the J-15 Centrifuge, maintain a 30 cm (12 in.) clearance envelope around the centrifuge under the following circumstances:

 1) Run duration exceeds 60 minutes or 2) Ambient temperature exceeds 25° C.
- 4 Normally, only nonconductive pollution occurs. Occasionally, however, a temporary conductivity caused by condensation must be expected.

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