





ADDRESS EVERY POINT OF YOUR WORKFLOW, OPTIMIZATION AND PREPARATION

SPECIALTY LABWARE

Disposable HarvestLine System liners simplify the processing of large samples

- Convenient sample recovery and long term sample storage
- Enhances operator safety and efficiency
- Easy-to-use, low-cost sample containment

1 liter wide mouth polypropylene bottle features that maximize your workflow

- Achieve 9,000 rpm in the JLA-9.1000 rotor
- AutoVent plug and polyphenylene sulfide cap provide greater chemical resistance



Eliminate steps, maximize time and minimize cross-contamination with less hands-on sample handling.

WORKFLOW OPTIMIZATION FROM BEGINNING TO END OF SAMPLE PREPARATION

Cell Harvesting/ Pelleting



CELL HARVESTING

Maximize cell harvest volume. Large-volume processing rotor gives you efficiency and high throughput by processing up to 6 liters.



Supernatant Retention



EXOSOME PREPARATION (COMBINATION)

Isolate microparticles with the gold standard of exosome preparation. Efficient and fast sample preparation solutions customized for each step in your specific exosome research workflow, including small volume rotors **JS-24.38** and **JA-25.50**.



Cell Lysis

Debris Clearing



CELL HARVESTING

Exceptional high-throughout performance for scaling up protein production workflow. Save time and increase efficiency of cell pelleting with the **JCF-Z** continuous flow rotor. Our rotor system processes large sample volumes capable of reaching up to 800 mL pellet size.

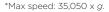


Product Processing



VIRAL VECTOR PREPARATION

Achieve greater than 100,000 \times g and purify your exosome by density gradient centrifugation using our **Avanti JXN 30** in combination with the **JS-24.15** or **JA-14.50*** rotors.





Brilliance at Every Turn

INCREASE PERFORMANCE AND RELIABILITY



PROTECT YOUR SAMPLE AND STANDARDIZE METHODS

 We have been manufacturing high performance centrifuges for nearly 50 years with a consistent rotor library to optimize backward compatibility

MAXIMIZE LAB SAFETY

- Our centrifuges are equipped with pharmaceutical-grade sterilizing filters
- Rotor biocontainment protects lab personnel from labware failure

BROAD FUNCTIONALITY AND APPLICATIONS

- Beckman Counter rotor range adds versatility and complements ultra speed range
- We offer three rotors (JA-30.50Ti, JS-24.38, JS-24.15) that are capable of reaching speeds greater than 100,000 x g
- Easy loading with lower height and ergonomic rotor design

SAMPLE PROTECTIONS WITH EXCEPTIONAL TEMPERATURE CONTROL

- Extensive profile of rotors that are made of a single piece of aluminum, which is better conductive of temperature
- Our JXN-30 centrifuge runs all rotors at the ideal 4° C
- Sample loading and unloading while rotor is integrated into the centrifuge system makes for a more efficient and less cumbersome and laborintensive process



FASTEST HIGH PERFORMANCE CENTRIFUGE IN THE MARKET



Avanti JXN Series

BUILT FOR VERSATILITY AND PERFORMANCE

To overcome the everyday challenges of a shared laboratory facility, choose one of the two Avanti high performance centrifuges.

- Widespread use in biologics production
- Compatible with an extensive rotor library, so you can choose from a wide variety of high performance rotors to cover applications from large-volume pelleting to high speed subcellular fractionation to cell separations
- Large touchscreen interface and additional multiuser support enhances control and usability

	Avanti JXN 30	Avanti JXN 26
Working Capacity	4.0 Liter	6.0 Liter
Speed	Up to 110,500 x g RCF	Up to 81,200 x g RCF

Avanti J-26S XP

SIMPLICITY WITH PERFORMANCE

Simple interface with access to a large rotor library with speeds and volumes to support applications for cells, proteins and harvesting.



Brilliance at Every Turn .

AVANTI JXN USER-FRIENDLY SOFTWARE



INTUITIVE INTERFACE

- Personalized user profile with user login and admin control
- Experiment Diagnostics shows real-time run display of time, speed, and chamber temperature in graph
- Visual color status gives early warning of any protocol variations
- Run History records all run details, error messages, and it can be exported in Excel format



REMOTE MONITORING

- Network the Avanti JXN to set up, monitor and control your centrifuge remotely
- Receive alerts and diagnostics remotely via email or SMS



MOBILE CONTROL

 Mobilefuge mobile application controls, schedules and monitors runs remotely

LARGE INTUITIVE TOUCHSCREEN

- Very clear and visible for users
- Makes setting and viewing parameters very easy
- Rotor code identification provides the option of setting rcf or rpm
- Independent overspeed control (windage & inertia check) ensures safe rotor operation
- 10 levels of acceleration and deceleration control

BUILT-IN SAFETY AND EFFICIENCY WITH ROTOR INNOVATIONS

- Dynamic Rotor Inertia Check (DRIC) makes sure that rotors are not run beyond their maximum speed
- Lightweight 6 x 1 L JLA-8.1000 rotor offers the most efficient pelleting for large volumes, and easy handling and cleaning because of its modular design
- Foot pedal for hands-free door opening and an integrated surface work space optimize everday use
- Proven reliability with robust design for consistent results and maximum uptime, year after year
- Exceptional performance meeting evolving application needs, from academic research to production facilities, with up to 110,500 x g with the JXN 30 and up to 6 liters capacity with the JXN 26
- Versatile, high-throughput sample processing
 from 6 x 1 L bottles, to 28 x 50 mL conical tubes, to
 24 microplates per run, saving time and ensuring
 sample integrity with fast acceleration and
 deceleration rates, combined with smooth runs
 at all speeds

ROTOR SPECIFICATIONS

Application

		I	Application								
Rotor		Capacity	Speed (RPM/RCF)	Р	SF	LH	СМ	NA	С	V	В
	JA-30.50 Ti	400 mL (8 x 50 mL)	30,000 108,860	~	~	~	~	~	~	~	~
	JA-25.50	400 mL (8 x 50 mL)	25,000 75,600	~	~	~	~	~	~	~	~
	JA-25.15	360 mL (24 x 15 mL)	25,000 74,200	~	~	~		•	~	~	~
	JA-21	180 mL (18 x 10 mL)	21,000 50,400	~	~	~		~	~	~	~
	JA-20.1	480 mL (32 x 15 mL)	20,000 51,500	~	~	~		~	~	~	~
999	JA-20	400 mL (8 x 50 mL)	20,000 48,400	~	~	~		~	~	~	~
	JA-18.1	43.2 mL (24 x 18 mL)	18,000 42,100	~	~	~		•	~	~	~
	JA-18	1,000 mL (10 x 100 mL)	18,000 47,900	~	~	~		~	~	~	~
	JA-17	700 mL (14 x 50 mL)	17,000 39,800	~	~	~		~	~	~	~
	JLA-16.250	1,500 mL (6 x 250 mL)	16,000 38,400	~	~	~	~	~	~		~
	JA-14.50	800 mL (16 x 50 mL)	14,000 35,000	~	~	~	~	~	~	~	~
	JA-14	1,500 mL (6 x 250 mL)	14,000 30,100	~	~	~	~	~	~	~	~
	JLA-12.500	3,000 mL (6 x 500 mL)	12,000 26,890	~	~	~	~	~	~		~
	JA-12	600 mL (12 x 50 mL)	12,000 23,200	~		~		~	~	~	~
	JLA-10.500	3,000 mL (6 x 500 mL)	10,000 18,500	~	~	~	~	~	~		~

Brilliance at Every Turn ·····

Application

Rotor	Capacity	Speed (RPM/RCF)	Р	SF	LH	СМ	NA	С	V	В
JA-10	3,000 mL (6 x 500 mL)	10,000 17,700	•	•	•	•	~	•		•
JLA-9.1000	4,000 mL (4 x 1000 mL)	9,000 16 800	~		~	~	~	~	~	~
JLA-8.1000	6,000 mL (6 x 1000 mL)	8,000 15 970	~		~	~	~	~	~	~
JS-24.38	231 mL (6 x 38.5 mL)	24,000 103 900	~	~	~	~	~	~	~	~
JS-13.1	300 mL (6 x 50 mL)	13,000 26 500	~	~	~		~	~	~	~
JS-5.3*	2,000 mL (4 x 500 mL)	5,300 6130	~	~	~	~	~	~	~	~
JS-4.0*	4,000 mL (4 x 1000 mL)	4,000 4,050	~	~	~		~	~	~	•

WORKFLOW **P** (Protein) **SF** (Subcellular Fractions) **LH** (Lysate/Tissue Homogenates) APPLICATIONS KEY CM (Clearing Media) NA (Nucleic Acid) C (Cells) V (Viruses) B (Blood)

*are not compatible with JXN-30.

JCF-Z		Workflow application	Capacity	Avanti JXN-30	Avanti JXN-26	
Std. C	Core		400 mL	20,000 39,900		
Large	Core	Debris cleaning, large particle	800 mL	20,000 39,900		
Small	Core	separation and cell pelleting	200 mL	20,000 39,900		
Zonal	Core		1,650 mL	20,0 39,9		

COMPLIANCE AND TECHNICAL SUPPORT

- At Beckman Coulter Life Sciences, 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







Specifications	Avanti JXN-26	Avanti JXN-30	Avanti J-26S XP*
Max. Speed/g-Force	26,000 rpm/81,770 x g	30,000 rpm/110,500 x g	26,000 rpm/81,770 x g
Max. Capacity	6 Liters	4 Liters	6 Liters
Speed Control	1,000 to 10,000: ± 10 rpm 10,001 to max: ±0.1%	1,000 to 10,000:± 10 rpm 10,001 to max: ±0.1%	Low Speed ± 10 rpm of set speed High Speed ± 0.1% rpm of set speed
Set Temperature	-10° C to 40° C in 1° increments	-20° C to 40° C in 1° increments	-10°C to 40°C in 1° increments
Temperature Accuracy	±2° C of chamber temperature (after equilibration)	±2° C of chamber temperature (after equilibration)	±2° C of chamber temperature (after equilibration)
Ambient Operating Range	16° C to 38° C	16° C to 38° C	16°C to 38°C
Accel/Decel Profiles	11/12	11/12	2/3
Heat Output	5,120 BTU/hr (1.5 kW)	5,120 BTU/hr (1.5 kW)	6900 BTU/hr (2.0 kW)
Drive Type/Cooling	SR drive/Air-Cooled	SR drive/Air-Cooled	SR drive/Air-cooled
Refrigeration	Non-CFC, non-ozone depleting refrigerant	Non-CFC, non-ozone depleting refrigerant	Refrigerant R452A (HFO)
Sound Level	<62 dBa (1 m in front of the instrument, 1.5 m above the floor)	<62 dBa (1 m in front of the instrument, 1.5 m above the floor)	57 dBA (0.91 m / 3 ft from instrument at maximum speed)
Dimensions	71 W x 86 D x 86 H cm (28 W x 34 D x 34 H in)	71 W x 86 D x 86 H cm (28 W x 34 D x 34 H in)	71 W x 86 D x 86 H cm (28 W x 34 D x 34 H in)
Weight	290 kg (640 lb)	310 kg (680 lb)	290 kg (640 lbs)

Providing over 75 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.



*Non-IVD Centrifuge.

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