

# Optima XPN

The premier ultracentrifuge.



Brilliance  
*at every turn.*





# Optima XPN

It's Beckman built.

Want a centrifuge that's at your command from the boardroom, or even poolside? With security features to boot? Then look no further—you've found the ultra of ultracentrifuges: the Optima XPN. What you won't find, however, is this level of design, functionality, and performance anywhere else.

Possessing all of the attributes of our entry-level model, the XE, the Optima XPN boasts additional enhancements that will simplify use, optimize control and security, and increase productivity. You'll applaud its intelligent user interface, multi-layered BioSafety features, and energy efficiency. And, of course, our

promise of total package satisfaction is backed by our exclusive rotors, labware, and unparalleled service.

By challenging convention and raising the bar, Beckman Coulter is setting an all-new standard. Again. The most sophisticated centrifuge in the industry, the Optima XPN will revolutionize your world.

## Large touch-screen display

Easy to read and navigate, even from across the lab. Intuitive graphical interface with context-sensitive help reduces user error. Multilingual software includes nine languages. Step-by-step zonal and continuous flow screens simplify workflow.

## Real-time run graphing

Plots speed and temperature over time, allowing you to track and record progress.

## Remote monitoring and control

Saves time. Start, stop, and monitor from computer or smart phone. Receive diagnostic alerts via email.

## Powerful on-board simulation and calculation tools

Saves time and samples. Proprietary software optimizes protocols before running to ensure maximum efficiency. Quickly perform common calculations and conversions.



## Security and tracking features

Manage rotor life by serial number. Track detailed usage history. Password protection and electronic signatures help you maintain chain of custody and compliance.

## Energy efficient

Regenerative braking returns energy to local circuit reducing utility costs. Highly efficient thermoelectric cooling results in lower power consumption. Uses the same amount of power as a 60-watt light bulb while idling.

## Improved power tolerance

Maintains runs during power fluctuations. Automatically switches transformer taps to handle a wider tolerated range of 180 VAC to 264 VAC. Tracks power interruption data to convey if parameters remained within an acceptable range.

## Quiet-drive technology

Designed for lowest drive noise—this is the quietest floor model on the market. Operates at less than 51dBA.

**BioSafe** and **BioSafety** are terms intended to describe the enhanced biocontainment features of our products.



# Optima XPN

The Beckman of centrifuges.

Beckman Coulter is the global leader in ultracentrifuges. Our quality stands the test of time—every piece of our equipment is engineered with planned durability, so you can trust in reliable performance year after year, after year. And when you invest in Beckman Coulter instruments, you're backed by an incomparable worldwide support organization. All to help you maintain your investment and ensure top performance from your lab.

The Optima XPN is revolutionary. It has become the all-new standard. And like all of our instruments, it's a precision-made beauty worthy of the Beckman Coulter name.

## FEATURES

Giant LCD touch-screen display  
Intuitive, multilingual interface  
Improved power tolerance  
Compatible with existing Beckman Coulter rotors  
Step-by-step zonal/CF operation screens  
Rotor tracking by serial number  
Remote monitoring and control  
Password protection and three user access levels  
Exportable run logs and electronic signatures  
eXpert simulation software  
Speed/temperature vs. time plot  
User-defined programs

## XE XPN



## SPECIFICATIONS

	XPN-100	XPN-90	XPN-80
Maximum Speed (rpm)	100,000	90,000	80,000
Maximum RCF ( $\times g$ )	802,000	694,000	548,300
Speed Control	$\pm 2$ rpm of set speed (above 1,000 rpm)		
Set Temperature	0 to 40° C in 1° C increments		
Temperature Control	$\pm 0.5^\circ$ C of set temperature*		
Ambient Operating Range	10 to 35° C		
Accel/Decel Profiles	10/11		
Braking	Regenerative, power reclamation		
Operating Languages	English, French, Italian, German, Spanish, Japanese, Russian, Korean, and Chinese (Simplified)		
Advanced Software	Optima eXpert calculations, simulations, references		
User-Defined Programs	1,000 with up to 30 steps each		
User Profiles	50 unique users and passwords		
Electronic Signature	Yes		
Rotor Tracking	By serial number		
Data Transfer	(3) USB 2.0 type A connectors, (1) RJ-45 connector		
Heat Output	3400 BTU/hr (1.0 kW)		
Drive Cooling	Air-cooled		
Refrigeration System	Thermoelectric - no CFCs, ODCs		
Sound Level	<51dBa		
Remote Control	Available		
HEPA Filter	Available		
Power Requirement	200-240V, 30 A, 50/60 Hz		
Dimensions	94W x 68.1D x 125.7H cm (37W x 26.8D x 49.5H in)		
Weight	485 kg (1068 lb)		

\*  $\pm 0.8^\circ\text{C}$  when using SW 32 swinging bucket rotor.



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For Beckman Coulter's worldwide office locations and phone numbers, please visit "Contact Us" at [www.beckmancoulter.com](http://www.beckmancoulter.com)

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