

Optima XPN

The premier ultracentrifuge.

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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.

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.



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.



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.

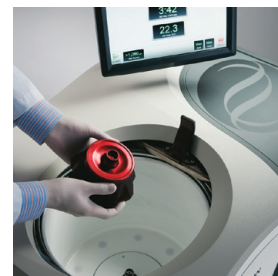
Improved power tolerance

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 51 dBA.

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

| | XE | XPN |
|--------------------------------------------------|----|-----|
| 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 | | ■ |

SPECIFICATIONS

| | XPN-100 | XPN-90 | XPN-80 |
|-------------------------|------------------------------------------------------------------------------------------------|---------|---------|
| Maximum Speed (rpm) | 100,000 | 90,000 | 80,000 |
| Maximum RCF (x g) | 802,000 | 694,000 | 548,300 |
| Speed Control | ±2 rpm of set speed (above 1,000 rpm) | | |
| Set Temperature | 0 to 40° C in 1° C increments | | |
| Temperature Control | ±0.5° C of set temperature* | | |
| Ambient Operating Range | 10° C 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 | <51 dBA | | |
| 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) | | |
| Order Number | A94469 | A94468 | A95765 |

*±0.8°C when using SW 32 swinging bucket rotor.

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