



Smart Separation for Your Workflow

Exceed your limits with the Centrifuge CP-NX Series

Combine Safety and Efficiency With Simple Operation

Ultracentrifugation can be challenging, thus user-friendly and safe operation is crucial. Therefore, the flagship of our ultracentrifuge portfolio has been designed to make ultracentrifugation as safe and convenient as possible.

With speeds of up to $803,000 \times g$ (100,000 rpm)*¹, it is the optimal solution for the separation of nucleic acids, proteins, protein complexes, vesicles, and viruses, just to name a few.

Automatic rotor detection and Rotor Life Management System (RLM)
Convenient recognition of rotors and exact digital tracking of rotor run times eliminate the need for manual logs. In addition, the precise tracking of rotor speeds and run times maximizes the lifetime of the rotor and ensures long-lasting performance.

Self-locking rotor system
Rotor locks by centrifugal force. Simply place the rotor on the drive shaft... that's it!

Front-mounted LED status bar
View operating status at-a-glance from distance.



Visual sample balance
Balance samples by eye up to 5 mm height difference – no scale required! *²
The powerful non-contact imbalance system always monitors the vibration of rotor and drive shaft. In case of unusual vibrations, the system stops the run.

Intuitive touchscreen
Offers documentation functions and user management to support GxP compliance

Fast turn-on time
Ready to go in just 6 seconds- no waiting time anymore!

*¹ The CP-NX models are available with max. speeds of 100,000 rpm. For details see last page.

*² Except Rotor P21A2

Easy Choice: A Selection of Comprehensive Rotors and Consumables

Rotor	Capacity range	Max. speed	K-factor	Included consumable	Order number
	Fixed Angle Rotors: high-speed, 25-45° angle rotors are ideal for pelleting applications				
P21A2	6 × 230 mL	71,000 × <i>g</i>	486	6 × 230PP Bottle	5720 211 205
P45AT	6 × 94 mL	235,000 × <i>g</i>	130		5720 211 109
P50A3	24 × 1.5 mL	252,000 × <i>g</i>	33	300 × 1.5 mL MicroTube (C)	5720 211 108
P50AT2	12 × 3 mL–12 × 40 mL	303,000 × <i>g</i>	70		5720 211 107
P70AT	8 × 3 mL–8 × 40 mL	505,000 × <i>g</i>	44		5720 211 105
P70AT2	12 × 0.9 mL–12 × 12 ml	452,000 × <i>g</i>	36		5720 211 104
P80AT	8 × 0.9 mL–8 × 12 mL	615,000 × <i>g</i>	27		5720 211 103
P90AT	8 × 0.9 mL–8 × 12 mL	700,000 × <i>g</i>	25		5720 211 102
P100AT2	8 × 4 mL–8 × 6.5 mL	803,000 × <i>g</i>	18		5720 211 101
	Swing Bucket Rotors: allow maximum sedimentation and are ideal for density gradient applications				
P28S	6 × 33 mL–6 × 40 mL	141,000 × <i>g</i>	252	100 × 40PP tube	5720 214 005
P32ST	6 × 33 mL–6 × 40 mL	180,000 × <i>g</i>	198	100 × 40PP tube	5720 214 003
P40ST	6 × 0.9 mL–6 × 13 mL	284,000 × <i>g</i>	139	100 × 13PP tube	5720 214 002
P55ST2	6 × 0.9 mL–6 × 5 mL	366,000 × <i>g</i>	50	100 × 5PP tube	5720 214 001
	Vertical Angle Rotors: allow short sedimentation distances and provider fast separations				
P100VT	8 × 5 mL	700,000 × <i>g</i>	6		5720 213 001



Tubes for large sample volumes. Available in different materials and wall thicknesses to match your analytical needs – from optical clarity in PET tubes to corrosion-resistant, stainless-steel tubes.



Heat-sealing tubes for handling and protecting precious samples. An additional tube sealer and rack is available for heat sealing tubes.



Bottles that are easy to open and close. Available with screw-style cap enclosures for high-speed pelleting.

Start Separation at Ease



Discover the now complete centrifugation range from Eppendorf

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Technical Specifications

Model	Ultracentrifuges		
	Centrifuge CP100NX	Centrifuge CP90NX	Centrifuge CP80NX
Max. RPM	100,000	90,000	80,000
Max. RCF ($\times g$)	803,000	700,000	615,000
Order No. 230 V Variant, no plug ^{*3}	5720 110 012	5720 109 012	5720 108 012
Order No. 208 V Variant, NEMA 6-30P plug	5720 110 013	5720 109 013	5720 108 013
Order No. 220 V Variant, no plug ^{*3}	5720 110 011	5720 109 011	5720 108 011
Order No. 200 V Variant, no plug ^{*3}	5720 110 010	5720 109 010	5720 100 810
Power consumption	3,300 W		
Nominal volume	Up to 6 × 230 mL		
Noise level	<51 dB(A)		
Acceleration / breaking ramps	10 / 11 (including coasting)		
Display	Touch-sensitive color LCD panel (6.5 in)		
Timer	from 1 min to 999 hours 59 min (with 1 min increments) with HOLD function		
Power supply	Single phase: AC 200–220 V $\pm 10\%$, 50/60 Hz, 20 A, Single phase: AC 230–240 V $\pm 10\%$, 50/60 Hz, 16 A, Single phase: AC 208 V $\pm 10\%$, 50/60 Hz, 20 A		
Maximum number of log files	Up to 5,120 logs		
Footprint (W × D)	790 × 690 mm / 31.1 × 27.2 in		
Height	925 mm / 36.4 in		
Weight (w/o) accessories	390 kg / 859.8 lbs		
Refrigeration	Thermo-module cooling system (HFC-free)		
Temperature control range	from 0°C to 40°C		
Vacuum system	Oil rotary vacuum pump and oil diffusion pump		
Safety functions	Interlock door, overspeed detection, overload detection, imbalance detection, over-temperature detection, vacuum detection, power failure detection, automatic rotor lifetime management system, micro-filter (optional)		
Connectivity	USB, LAN		
Optional software	»Himac ASSIST« for planning centrifugation experiments »Himac View« from Apple® store or Google Play® for remote control »Himac Log Manager« for logging device information		

^{*3} For correct installation contact our technical experts.

Ensure Top System Performance: Eppendorf Services



We are committed to providing reliable services and tools at your location. This includes a comprehensive range of carefully designed service solutions performed by our dedicated manufacturer-trained and certified Technical Service teams worldwide.

www.eppendorf.com/centrifuge-service

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