

FLOOR TYPE CENTRIFUGE



FLOOR TYPE CENTRIFUGE

These high quality floor type refrigerated and non-refrigerated centrifuges meet the requirements of your critical research needs such as High speed or high capacity. These centrifuges have advance features such as Auto-decapping of blood collection tubes, Electronic door interlock, Automatic rotor identification, Imbalance protection, Over speed, Over temperature protection, Self-diagnostic of error etc. and the various suitable rotors are available.

Used in Cell Separation, Precipitation, Sample Processing, Clinical, Cell Culture, Microplate Processing, Biochemistry, medical diagnosis.

Also known as Floor Standing Centrifuge, Laboratory Floor Type Centrifuge, Floor Type Refrigerated Centrifuge.

CEN23 FLOOR TYPE REFRIGERATED CENTRIFUGE

- LCD display
- Brushless DC motor
- Microprocessor controller
- Inner chamber material: Stainless Steel
- Electronic door interlock
- Automatic rotor identification and Imbalance protection
- Operating parameters can be modified during the operation
- Memory of 12 programs
- 40 levels of acceleration and 40 levels of deceleration
- Faults are diagnosed automatically
- Over speed, Over temperature protection
- CFC-free refrigerants system (TECUMSEH EUROPE COMPRESSOR)
- Precise temperature control with double loop control design is highly efficient, allows fast heating and cooling
- Low noise and very small vibration
- RCF can be set up directly, without RPM to RCF translation



SPECIFICATIONS

Model	CEN23-18R	CEN23-22R
Maximum Capacity (No of tubes x Vol.)	4x250 ml , 4 x 100 ml	
Temp. Control Range	-20°C to 40°C	
Temperature Accuracy	± 1°C	
Maximum Speed	4 500 rpm with 4 x 250 ml rotor , 18 000 rpm with 12 x 1.5/2.0 ml	4 500 rpm with 4 x 250 ml rotor , 22 000 rpm with 12 x 1.5/2.0 ml
Speed Accuracy	± 10 rpm	
Maximum RCF	3 720 Xg with 4 x 250 ml rotor , 30 790 Xg with 24 x 1.5/2.0 ml	3 720 Xg with 4 x 250 ml rotor , 33 820 Xg with 12 x 1.5/2.0 ml
Time Range	Count up or down	
Acceleration Rate	40	
Deceleration Rate	40	
Drive System	Direct, induction motor drive (Inverter Control)	Direct,induction motor drive (Inverter Control)
Rotor Identification	Auto-ID Instant, immediately upon rotor insertion	
Control System	Microprocessor via user-intuitive touch screen interface control	
Refrigeration System	CFC-Free	

Display	Full color touch screen interface	
Programmability	Via easy access touch screen menu	
Program Storage	1000 user-defined	
Safety Device	Imbalance protection,over speed protection,over current protection,lid interlock system,lid open/close detection, steel housing, corrosion-resistant stainless steel centrifuge chamber, additional inner steel armored guarding,steel lid,etc.	
Overall Dimension	26.8x24.4x33 in / 68x62x84 mm	26.8 x 24.4 x 33 in / 68 x 62 x 84 mm
Noise Level	≤ 60 dB(A)	
Weight (Net/Gross)	160 kg	
Power	1800 W	
Power Supply	AC 200-240V, 50/60Hz or AC 100-127V, 50/60Hz	

OPTIONAL ACCESSORIES

Accessory Code	Name	Rotor Capacity	Max Speed (rpm)	Max RCF(g)	For Models
2201218005	No. 1 Fixed-Angle Rotor	12x1.5/2.0 ml(with adapters for 0.2/0.5ml tube)	18000 rpm	22640g	CEN23-18R
2201218006	No. 2 Fixed-Angle Rotor	12x5 ml	16000 rpm	20780g	CEN23-18R
2201218007	No. 3-1 Fixed-Angle Rotor	24x1.5/2.0 ml(with adapters for 0.2/0.5ml tube)	16000 rpm	24790g	CEN23-18R
2201218008	No. 3-2 Fixed-Angle Rotor	24x1.5/2.0 ml(with adapters for 0.2/0.5ml tube)(rotor with Aerosol-tight lid)	18000 rpm	30790g	CEN23-18R
2201218009	No. 4-1 Fixed-Angle Rotor	12x10 ml	15000 rpm	20800g	CEN23-18R
2201218010	No. 4-2 Fixed-Angle Rotor	36x1.5/2.0 ml(with adapters for 0.2/0.5ml tube)	15000 rpm	20800g	CEN23-18R
2201218011	No. 5-1 Fixed-Angle Rotor	6x50 ml (conical)	13000 rpm	18420g	CEN23-18R
2201218012	adapters		13000 rpm	18420g	CEN23-18R
2201218013	adapters		13000 rpm	18420g	CEN23-18R
2201218014	adapters		13000 rpm	18420g	CEN23-18R
2201218015	adapters		13000 rpm	18420g	CEN23-18R
2201218016	adapters		13000 rpm	18420g	CEN23-18R
2201218017	adapters		13000 rpm	18420g	CEN23-18R
2201218018	adapters		13000 rpm	18420g	CEN23-18R
2201218019	adapters		13000 rpm	18420g	CEN23-18R
2201218020	adapters		13000 rpm	18420g	CEN23-18R
2201218021	adapters		13000 rpm	18420g	CEN23-18R
2201218022	No. 5-2 Fixed-Angle Rotor	48x1.5/2.0 ml(with adapters for 0.2/0.5ml tube)	13000 rpm	18420g	CEN23-18R
2201218023	No. 5-3 Fixed-Angle Rotor	6x50 ml (round bottom)	13000 rpm	18420g	CEN23-18R
2201218024	adapters		13000 rpm	18420g	CEN23-18R
2201218025	adapters		13000 rpm	18420g	CEN23-18R
2201218026	adapters		13000 rpm	18420g	CEN23-18R
2201218027	adapters		13000 rpm	18420g	CEN23-18R
2201218028	adapters		13000 rpm	18420g	CEN23-18R
2201218029	adapters		13000 rpm	18420g	CEN23-18R
2201218030	adapters		13000 rpm	18420g	CEN23-18R
2201218031	adapters		13000 rpm	18420g	CEN23-18R
2201218032	adapters		13000 rpm	18420g	CEN23-18R
2201218033	No. 6-1 Fixed-Angle Rotor	4x100 ml	10000 rpm	11040g	CEN23-18R

2201218034	adapters		10000 rpm	11040g	CEN23-18R
2201218035	adapters		10000 rpm	11040g	CEN23-18R
2201218036	adapters		10000 rpm	11040g	CEN23-18R
2201218037	adapters		10000 rpm	11040g	CEN23-18R
2201218038	adapters		10000 rpm	11040g	CEN23-18R
2201218039	adapters		10000 rpm	11040g	CEN23-18R
2201218040	adapters		10000 rpm	11040g	CEN23-18R
2201218041	adapters		10000 rpm	11040g	CEN23-18R
2201218042	adapters		10000 rpm	11040g	CEN23-18R
2201218043	adapters		10000 rpm	11040g	CEN23-18R
2201218044	adapters		10000 rpm	11040g	CEN23-18R
2201218045	adapters		10000 rpm	11040g	CEN23-18R
2201218046	No. 6-2 Fixed-Angle Rotor	8x50 ml (conical)	10000 rpm	11040g	CEN23-18R
2201218047	adapters		10000 rpm	11040g	CEN23-18R
2201218048	adapters		10000 rpm	11040g	CEN23-18R
2201218049	adapters		10000 rpm	11040g	CEN23-18R
2201218050	adapters		10000 rpm	11040g	CEN23-18R
2201218051	adapters		10000 rpm	11040g	CEN23-18R
2201218052	adapters		10000 rpm	11040g	CEN23-18R
2201218053	adapters		10000 rpm	11040g	CEN23-18R
2201218054	adapters		10000 rpm	11040g	CEN23-18R
2201218055	adapters		10000 rpm	11040g	CEN23-18R
2201218056	adapters		10000 rpm	11040g	CEN23-18R
2201218057	No. 6-3 Fixed-Angle Rotor	12x15 ml	12000 rpm	15890g	CEN23-18R
2201218058	adapters		12000 rpm	15890g	CEN23-18R
2201218059	adapters		12000 rpm	15890g	CEN23-18R
2201218060	adapters		12000 rpm	15890g	CEN23-18R
2201218061	adapters		12000 rpm	15890g	CEN23-18R
2201218062	adapters		12000 rpm	15890g	CEN23-18R
2201218063	adapters		12000 rpm	15890g	CEN23-18R
2201218064	No. 6-4 Fixed-Angle Rotor	12x15 ml	10000 rpm	11040g	CEN23-18R
2201218065	adapters		10000 rpm	11040g	CEN23-18R
2201218066	adapters		10000 rpm	11040g	CEN23-18R
2201218067	adapters		10000 rpm	11040g	CEN23-18R
2201218068	adapters		10000 rpm	11040g	CEN23-18R
2201218069	adapters		10000 rpm	11040g	CEN23-18R
2201218070	adapters		10000 rpm	11040g	CEN23-18R
2201218071	adapters		10000 rpm	11040g	CEN23-18R
2201218072	adapters		10000 rpm	11040g	CEN23-18R
2201218073	adapters		10000 rpm	11040g	CEN23-18R
2201218074	No. 6-5 Fixed-Angle Rotor	22x10 ml	10000 rpm	11040g	CEN23-18R
2201218075	No. 7 Fixed-Angle Rotor	6x10 ml	16000 rpm	18980g	CEN23-18R
2201218076	No. 8-1 Fixed-Angle Rotor	8x15 ml	14000 rpm	17310g	CEN23-18R
2201218077	adapters		14000 rpm	17310g	CEN23-18R
2201218078	adapters		14000 rpm	17310g	CEN23-18R
2201218079	adapters		14000 rpm	17310g	CEN23-18R
2201218080	adapters		14000 rpm	17310g	CEN23-18R
2201218081	adapters		14000 rpm	17310g	CEN23-18R

2201218082	adapters		14000 rpm	17310g	CEN23-18R
2201218083	No. 8-2 Fixed-Angle Rotor	6x30 ml	14000 rpm	17310g	CEN23-18R
2201218084	adapters		14000 rpm	17310g	CEN23-18R
2201218085	adapters		14000 rpm	17310g	CEN23-18R
2201218086	adapters		14000 rpm	17310g	CEN23-18R
2201218087	No. 9 Fixed-Angle Rotor	2x3 pcs microplates (96 wells) or 2x3 pcs microtiter plates or 2x2 pcs cell culture plates or 2x1 pc deep well plates	4000 rpm	1970g	CEN23-18R
2201218088	No. 10 Swing-Bucket Rotor Rotor Cross		4500 rpm	3720g	CEN23-18R
2201218089	250 ml Round Buckets	4x250 ml	4500 rpm	3720g	CEN23-18R
2201218090	adapters	4x100 ml	4500 rpm	3720g	CEN23-18R
2201218091	adapters	4x50 ml	4500 rpm	3720g	CEN23-18R
2201218092	adapters	8x50 ml (conical)	4500 rpm	3720g	CEN23-18R
2201218093	adapters	8x50 ml (round bottom)	4500 rpm	3720g	CEN23-18R
2201218094	adapters	8x30 ml	4500 rpm	3720g	CEN23-18R
2201218095	adapters	20x15 ml	4500 rpm	3720g	CEN23-18R
2201218096	adapters	36x10 ml	4500 rpm	3720g	CEN23-18R
2201218097	adapters	20x5 ml (conical)	4500 rpm	3720g	CEN23-18R
2201218098	adapters	32x1.5/2.0 ml	4500 rpm	3720g	CEN23-18R
2201218099	adapters	32x2.0 ml	4500 rpm	3720g	CEN23-18R
2201218100	adapters	40x0.5 ml	4500 rpm	3720g	CEN23-18R
2201218101	adapters	20x10 ml virus sampling tube	4500 rpm	3720g	CEN23-18R
2201218102	adapters	28x4 -10 ml blood collection / urine tube	4500 rpm	3720g	CEN23-18R
2201218103	adapters	40x1.6 -7 ml blood collection / urine tube	4500 rpm	3720g	CEN23-18R
2201218104	Conical Buckets	4x175/225 ml Falcon conical bottle	4500 rpm	3720g	CEN23-18R
2201218105	Buckets	36x4-10 ml blood collection /urine tube	4000 rpm	3100g	CEN23-18R
2201218106	Buckets	48x1.6 -7 ml blood collection / urine tube	4000 rpm	3100g	CEN23-18R
2201218107	Buckets	64x1.6 -7 ml blood collection / urine tube	4000 rpm	3100g	CEN23-18R
2201218108	No. 11 Fixed-Angle Rotor	12x50 ml (conical)	10000 rpm	14310g	CEN23-18R
2201218109	adapters		10000 rpm	14310g	CEN23-18R
2201218110	adapters		10000 rpm	14310g	CEN23-18R
2201218111	adapters		10000 rpm	14310g	CEN23-18R
2201218112	adapters		10000 rpm	14310g	CEN23-18R
2201218113	adapters		10000 rpm	14310g	CEN23-18R
2201218114	adapters		10000 rpm	14310g	CEN23-18R
2201218115	adapters		10000 rpm	14310g	CEN23-18R
2201218116	adapters		10000 rpm	14310g	CEN23-18R
2201218117	adapters		10000 rpm	14310g	CEN23-18R
2201218118	adapters		10000 rpm	14310g	CEN23-18R
2201219005	No. 1 Fixed-Angle Rotor	12x1.5/2.0 ml(with adapters for 0.2/0.5ml tube)	22000 rpm	33820g	CEN23-22R
2201219006	No. 2 Fixed-Angle Rotor	12x5 ml	17000 rpm	23460g	CEN23-22R

2201219007	No. 3-1 Fixed-Angle Rotor	24x1.5/2.0 ml(with adapters for 0.2/0.5ml tube)	16500 rpm	26360g	CEN23-22R
2201219008	No. 3-2 Fixed-Angle Rotor	24x1.5/2.0 ml(with adapters for 0.2/0.5ml tube)(rotor with Aerosol-tight lid)	18000 rpm	30790g	CEN23-22R
2201219009	No. 4-1 Fixed-Angle Rotor	12x10 ml	15000 rpm	20800g	CEN23-22R
2201219010	No. 4-2 Fixed-Angle Rotor	36x1.5/2.0 ml(with adapters for 0.2/0.5ml tube)	15000 rpm	20800g	CEN23-22R
2201219011	No. 4-3 Fixed-Angle Rotor	8x15 ml	15000 rpm	20800g	CEN23-22R
2201219012	adapters		15000 rpm	20800g	CEN23-22R
2201219013	adapters		15000 rpm	20800g	CEN23-22R
2201219014	adapters		15000 rpm	20800g	CEN23-22R
2201219015	adapters		15000 rpm	20800g	CEN23-22R
2201219016	adapters		15000 rpm	20800g	CEN23-22R
2201219017	adapters		15000 rpm	20800g	CEN23-22R
2201219018	No. 5-1 Fixed-Angle Rotor	6x50 ml (conical)	13000 rpm	18420g	CEN23-22R
2201219019	adapters		13000 rpm	18420g	CEN23-22R
2201219020	adapters		13000 rpm	18420g	CEN23-22R
2201219021	adapters		13000 rpm	18420g	CEN23-22R
2201219022	adapters		13000 rpm	18420g	CEN23-22R
2201219023	adapters		13000 rpm	18420g	CEN23-22R
2201219024	adapters		13000 rpm	18420g	CEN23-22R
2201219025	adapters		13000 rpm	18420g	CEN23-22R
2201219026	adapters		13000 rpm	18420g	CEN23-22R
2201219027	adapters		13000 rpm	18420g	CEN23-22R
2201219028	adapters		13000 rpm	18420g	CEN23-22R
2201219029	No. 5-2 Fixed-Angle Rotor	48x1.5/2.0 ml(with adapters for 0.2/0.5ml tube)	13000 rpm	18420g	CEN23-22R
2201219030	No. 5-3 Fixed-Angle Rotor	6x50 ml (round bottom)	13000 rpm	18420g	CEN23-22R
2201219031	adapters		13000 rpm	18420g	CEN23-22R
2201219032	adapters		13000 rpm	18420g	CEN23-22R
2201219033	adapters		13000 rpm	18420g	CEN23-22R
2201219034	adapters		13000 rpm	18420g	CEN23-22R
2201219035	adapters		13000 rpm	18420g	CEN23-22R
2201219036	adapters		13000 rpm	18420g	CEN23-22R
2201219037	adapters		13000 rpm	18420g	CEN23-22R
2201219038	adapters		13000 rpm	18420g	CEN23-22R
2201219039	adapters		13000 rpm	18420g	CEN23-22R
2201219040	No. 6-1 Fixed-Angle Rotor	4x100 ml	11000 rpm	13350g	CEN23-22R
2201219041	adapters		11000 rpm	13350g	CEN23-22R
2201219042	adapters		11000 rpm	13350g	CEN23-22R
2201219043	adapters		11000 rpm	13350g	CEN23-22R
2201219044	adapters		11000 rpm	13350g	CEN23-22R
2201219045	adapters		11000 rpm	13350g	CEN23-22R
2201219046	adapters		11000 rpm	13350g	CEN23-22R
2201219047	adapters		11000 rpm	13350g	CEN23-22R
2201219048	adapters		11000 rpm	13350g	CEN23-22R
2201219049	adapters		11000 rpm	13350g	CEN23-22R
2201219050	adapters		11000 rpm	13350g	CEN23-22R

2201219051	adapters		11000 rpm	13350g	CEN23-22R
2201219052	adapters		11000 rpm	13350g	CEN23-22R
2201219053	No. 6-2 Fixed-Angle Rotor	8x50 ml (conical)	11000 rpm	13350g	CEN23-22R
2201219054	adapters		11000 rpm	13350g	CEN23-22R
2201219055	adapters		11000 rpm	13350g	CEN23-22R
2201219056	adapters		11000 rpm	13350g	CEN23-22R
2201219057	adapters		11000 rpm	13350g	CEN23-22R
2201219058	adapters		11000 rpm	13350g	CEN23-22R
2201219059	adapters		11000 rpm	13350g	CEN23-22R
2201219060	adapters		11000 rpm	13350g	CEN23-22R
2201219061	adapters		11000 rpm	13350g	CEN23-22R
2201219062	adapters		11000 rpm	13350g	CEN23-22R
2201219063	adapters		11000 rpm	13350g	CEN23-22R
2201219064	No. 6-3 Fixed-Angle Rotor	12x15 ml	13000 rpm	18650g	CEN23-22R
2201219065	7171506.3FA1		13000 rpm	18650g	CEN23-22R
2201219066	7171506.3FA1		13000 rpm	18650g	CEN23-22R
2201219067	7171506.3FA1		13000 rpm	18650g	CEN23-22R
2201219068	7171506.3FA1		13000 rpm	18650g	CEN23-22R
2201219069	7171506.3FA1		13000 rpm	18650g	CEN23-22R
2201219070	7171506.3FA1		13000 rpm	18650g	CEN23-22R
2201219071	No. 6-4 Fixed-Angle Rotor	8x50 ml (round bottom)	11000 rpm	13350g	CEN23-22R
2201219072	adapters		11000 rpm	13350g	CEN23-22R
2201219073	adapters		11000 rpm	13350g	CEN23-22R
2201219074	adapters		11000 rpm	13350g	CEN23-22R
2201219075	adapters		11000 rpm	13350g	CEN23-22R
2201219076	adapters		11000 rpm	13350g	CEN23-22R
2201219077	adapters		11000 rpm	13350g	CEN23-22R
2201219078	adapters		11000 rpm	13350g	CEN23-22R
2201219079	adapters		11000 rpm	13350g	CEN23-22R
2201219080	adapters		11000 rpm	13350g	CEN23-22R
2201219081	No. 6-5 Fixed-Angle Rotor	24x10 ml	11000 rpm	13350g	CEN23-22R
2201219082	No. 7 Swing-Bucket Rotor	2x3 pcs microplates (96 wells) or 2x3 pcs microtiter plates or 2x2 pcs cell culture plates or 2x1 pc deep well plates	4000 rpm	1970g	CEN23-22R
2201219083	No. 8 Swing-Bucket Rotor Rotor Crosss		4500 rpm	3720g	CEN23-22R
2201219084	250ml Round Buckets	4x250 ml	4500 rpm	3720g	CEN23-22R
2201219085	adapters	4x100 ml	4500 rpm	3720g	CEN23-22R
2201219086	adapters	4x50 ml	4500 rpm	3720g	CEN23-22R
2201219087	adapters	8x50 ml (conical)	4500 rpm	3720g	CEN23-22R
2201219088	adapters	8x50 ml (round bottom)	4500 rpm	3720g	CEN23-22R
2201219089	adapters	8x30 ml	4500 rpm	3720g	CEN23-22R
2201219090	adapters	20x15 ml	4500 rpm	3720g	CEN23-22R
2201219091	adapters	36x10 ml	4500 rpm	3720g	CEN23-22R
2201219092	adapters	20x5 ml (conical)	4500 rpm	3720g	CEN23-22R
2201219093	adapters	32x1.5/2.0 ml	4500 rpm	3720g	CEN23-22R
2201219094	adapters	32x2.0 ml	4500 rpm	3720g	CEN23-22R
2201219095	adapters	40x0.5 ml	4500 rpm	3720g	CEN23-22R

2201219096	adapters	20x10 ml virus sampling tube	4500 rpm	3720g	CEN23-22R
2201219097	adapters	28x4 -10 ml blood collection / urine tube	4500 rpm	3720g	CEN23-22R
2201219098	adapters	40x1.6 -7 ml blood collection / urine tube	4500 rpm	3720g	CEN23-22R
2201219099	Conical Buckets	4x175/225 ml Falcon conical bottle	4500 rpm	3720g	CEN23-22R
2201219100	Buckets	36x4 -10 ml blood collection / urine tube	4000 rpm	3100g	CEN23-22R
2201219101	Buckets	48x1.6 -7 ml blood collection / urine tube	4000 rpm	3100g	CEN23-22R
2201219102	Buckets	64x1.6 -7 ml blood collection / urine tube	4000 rpm	3100g	CEN23-22R
2201219103	No. 9-1 Swing-Bucket Rotor Rotor Cross		4200 rpm	3550g	CEN23-22R
18408554104	500ml Round Buckets	4x500 ml	4200 rpm	3550g	CEN23-22R
18408554105	Aerosol-tight lids for 500ml Round Buckets		4200 rpm	3550g	CEN23-22R
18408554106	adapters	4x250 ml	4200 rpm	3550g	CEN23-22R
18408554107	adapters	4x175/225 ml Falcon conical bottle	4200 rpm	3550g	CEN23-22R
18408554108	adapters	4x100 ml	4200 rpm	3550g	CEN23-22R
18408554109	adapters	16x50 ml (conical)	4200 rpm	3550g	CEN23-22R
18408554110	adapters	16x50 ml (round bottom)	4200 rpm	3550g	CEN23-22R
18408554111	adapters	16x30 ml	4200 rpm	3550g	CEN23-22R
18408554112	adapters	36x15 ml	4200 rpm	3550g	CEN23-22R
18408554113	adapters	56x10 ml	4200 rpm	3550g	CEN23-22R
18408554114	adapters	36x5 ml (conical)	4200 rpm	3550g	CEN23-22R
18408554115	adapters	80x1.5/2.0 ml	4200 rpm	3550g	CEN23-22R
18408554116	adapters	60x2.0 ml	4200 rpm	3550g	CEN23-22R
18408554117	adapters	80x0.5 ml	4200 rpm	3550g	CEN23-22R
18408554118	adapters	36x10 ml virus sampling tube	4200 rpm	3550g	CEN23-22R
18408554119	adapters	56x4 -10 ml blood collection / urine tube	4200 rpm	3550g	CEN23-22R
18408554120	adapters	72x1.6 -7 ml blood collection / urine tube	4200 rpm	3550g	CEN23-22R
18408554121	Rectangular Buckets		4200 rpm	3550g	CEN23-22R
18408554122	adapters	20x50 ml (conical)	4200 rpm	3550g	CEN23-22R
18408554123	adapters	20x50 ml (round bottom)	4200 rpm	3550g	CEN23-22R
18408554124	adapters	20x30 ml (conical)	4200 rpm	3550g	CEN23-22R
18408554125	adapters	40x15 ml (conical)	4200 rpm	3550g	CEN23-22R
18408554126	adapters	40x5 ml (conical)	4200 rpm	3550g	CEN23-22R
18408554127	adapters	100x1.5/2.0 ml	4200 rpm	3550g	CEN23-22R
18408554128	adapters	100x2.0 ml	4200 rpm	3550g	CEN23-22R
18408554129	adapters	80x4 -10 ml blood collection / urine tube	4200 rpm	3550g	CEN23-22R
18408554130	adapters	80x4-10 ml blood collection / urine tube	4200 rpm	3550g	CEN23-22R
18408554131	Round Buckets	148x5 ml Radio-immunity tube	4200 rpm	3550g	CEN23-22R
18408554132	Round Buckets	96x1.6-7 ml blood collection / urine tube	4200 rpm	3550g	CEN23-22R

18408554133	Plate Buckets	4x2 pcs microplates (96 wells) or 4x2 pcs microtiter plates or 4x2 pcs cell culture plates or 4x1 pc deep well plates	4200 rpm	3550g	CEN23-22R
18408554134	No. 9-2 Swing-Bucket Rotor	4x250 ml Corning conical bottle or 4 x 200 ml Nunc bottle	4200 rpm	3550g	CEN23-22R
18408554135	No. 10-1 Swing-Bucket Rotor	4x750 ml	4000 rpm	3500g	CEN23-22R
18408554136	adapters	4x500 ml	4000 rpm	3500g	CEN23-22R
18408554137	adapters	4x250 ml	4000 rpm	3500g	CEN23-22R
18408554138	adapters	4x175/225 ml Falcon conical bottle	4000 rpm	3500g	CEN23-22R
18408554139	adapters	12x100 ml	4000 rpm	3500g	CEN23-22R
18408554140	adapters	20x50 ml (conical)	4000 rpm	3500g	CEN23-22R
18408554141	adapters	20x50 ml (round bottom)	4000 rpm	3500g	CEN23-22R
18408554142	adapters	20x30 ml	4000 rpm	3500g	CEN23-22R
18408554143	adapters	56x15 ml	4000 rpm	3500g	CEN23-22R
18408554144	adapters	72x10 ml	4000 rpm	3500g	CEN23-22R
18408554145	adapters	56x5 ml (conical)	4000 rpm	3500g	CEN23-22R
18408554146	adapters	88x1.5/2.0 ml	4000 rpm	3500g	CEN23-22R
18408554147	adapters	88x2.0 ml	4000 rpm	3500g	CEN23-22R
18408554148	adapters	96x0.5 ml	4000 rpm	3500g	CEN23-22R
18408554149	adapters	72x4-10 ml blood collection / urine tube	4000 rpm	3500g	CEN23-22R
18408554150	adapters	96x1.6-7 ml blood collection / urine tube	4000 rpm	3500g	CEN23-22R
18408554151	adapters	148x5 ml Radio-immunity tube	4000 rpm	3500g	CEN23-22R
18408554152	adapters	4x30/50 ml Falcon Cell Culture Flasks or 4x30/50 ml Corning Cells Culture Flasks	4000 rpm	3500g	CEN23-22R
18408554153	adapters	4x40 ml Nunc Cell Culture Flasks	4000 rpm	3500g	CEN23-22R
18408554154	adapters	4x160 ml Nunc Cell Culture Flasks	4000 rpm	3500g	CEN23-22R
18408554155	adapters	4x200 ml Falcon Cell Culture Flasks or 4x200 ml Greiner Cell Culture Flasks or 4x200 ml Nunc Cell Culture Flasks	4000 rpm	3500g	CEN23-22R
18408554156	No. 10-2 Swing-Bucket Rotor	4x500 ml Corning conical bottle	4000 rpm	3500g	CEN23-22R
18408554157	No. 11 Fixed-Angle Rotor	12x50 ml (conical)	10000 rpm	14310g	CEN23-22R
18408554158	adapters		10000 rpm	14310g	CEN23-22R
18408554159	adapters		10000 rpm	14310g	CEN23-22R
18408554160	adapters		10000 rpm	14310g	CEN23-22R
18408554161	adapters		10000 rpm	14310g	CEN23-22R
18408554162	adapters		10000 rpm	14310g	CEN23-22R
18408554163	adapters		10000 rpm	14310g	CEN23-22R
18408554164	adapters		10000 rpm	14310g	CEN23-22R
18408554165	adapters		10000 rpm	14310g	CEN23-22R
18408554166	adapters		10000 rpm	14310g	CEN23-22R
18408554167	adapters		10000 rpm	14310g	CEN23-22R



CEN23-18R



CEN23-22R

CEN23-25R FLOOR TYPE REFRIGERATED CENTRIFUGE

- LCD display
- Brushless DC motor
- Microprocessor controller
- Inner chamber material: Stainless Steel
- Electronic door interlock
- Automatic rotor identification and Imbalance protection
- Operating parameters can be modified during the operation
- Memory of 12 programs
- 40 levels of acceleration and 40 levels of deceleration
- Faults are diagnosed automatically
- Over speed, Over temperature protection
- CFC-free refrigerants system (TECUMSEH EUROPE COMPRESSOR)
- Precise temperature control with double loop control design is highly efficient, allows fast heating and cooling
- Low noise and very small vibration



SPECIFICATIONS

Model	CEN23-25R
Maximum Capacity (No of tubes x Vol.)	4x1000 ml , 4 x 750 ml
Temp. Control Range	-20°C to 40°C
Temperature Accuracy	± 1°C
Maximum Speed	25 000 rpm with 24 x 1.5/2.0 ml , 10 000 rpm with 6 x 50 ml rotor
Speed Accuracy	± 10 rpm
Maximum RCF	65 000 Xg with 16 x 10 ml , 15 680 Xg with 6 x 50 ml rotor
Time Range	1 min-99 h:59 min,Short
Temp. Accuracy	±1 °C
Acceleration Rate	40
Deceleration Rate	40
Drive System	Direct, Induction motor drive (Inverter Control)
Rotor Identification	Auto-ID Instant, immediately upon rotor insertion
Overall Dimension	28.7 x 33.5 x 36.6 in / 73 x 85 x 93 mm
Program Storage	100 user-defined
Safety Device	Rotor identification system with over speed protection, imbalance protection, over current protection, lid interlock, system, lid open/close detection, steel housing, corrosion-resistant stainless steel centrifuge chamber, additional inner steel armored guarding, steel lid, etc.
Noise Level	≤ 65 dB (A) (depending on rotor)

Weight (Net/Gross)	280 kg
Max. Power Consumption	5000 W
Power Supply	AC 200-240V, 50Hz or AC 200-240V,60Hz

OPTIONAL ACCESSORIES

Accessory Code	Name	Rotor Capacity	Max Speed (rpm)	Max RCF(g)
2201220005	No. 1 Fixed-Angle Rotor	24x1.5/2.0 ml(with adapters for 0.2/0.5ml tube)	25000 rpm	64800g
2201220006	No. 2.1 Fixed-Angle Rotor	16x10 ml	23000 rpm	56880g
2201220007	No. 2.2 Fixed-Angle Rotor	16x10 ml (Titanium alloy rotor)	24600 rpm	65000g
2201220008	No. 3 Fixed-Angle Rotor	8x50 ml (round)	21000 rpm	52360g
2201220009	adapters		21000 rpm	52360g
2201220010	adapters		21000 rpm	52360g
2201220011	adapters		21000 rpm	52360g
2201220012	adapters		21000 rpm	52360g
2201220013	adapters		21000 rpm	52360g
2201220014	adapters		21000 rpm	52360g
2201220015	adapters		21000 rpm	52360g
2201220016	adapters		21000 rpm	52360g
2201220017	adapters		21000 rpm	52360g
2201220018	adapters		21000 rpm	52360g
2201220019	No. 4 Fixed-Angle Rotor	6x250 ml	14000 rpm	32385g
2201220020	adapters		14000 rpm	32385g
2201220021	adapters		14000 rpm	32385g
2201220022	adapters		14000 rpm	32385g
2201220023	adapters		14000 rpm	32385g
2201220024	adapters		14000 rpm	32385g
2201220025	adapters		14000 rpm	32385g
2201220026	adapters		14000 rpm	32385g
2201220027	adapters		14000 rpm	32385g
2201220028	adapters		14000 rpm	32385g
2201220029	adapters		14000 rpm	32385g
2201220030	adapters		14000 rpm	32385g
2201220031	adapters		14000 rpm	32385g
2201220032	adapters		14000 rpm	32385g
2201220033	No. 5 Fixed-Angle Rotor	6x500 ml	10000 rpm	18590g
2201220034	adapters		10000 rpm	18590g
2201220035	adapters		10000 rpm	18590g
2201220036	adapters		10000 rpm	18590g
2201220037	adapters		10000 rpm	18590g
2201220038	adapters		10000 rpm	18590g
2201220039	adapters		10000 rpm	18590g
2201220040	adapters		10000 rpm	18590g
2201220041	adapters		10000 rpm	18590g
2201220042	adapters		10000 rpm	18590g
2201220043	adapters		10000 rpm	18590g
2201220044	adapters		10000 rpm	18590g

2201220045	adapters		10000 rpm	18590g
2201220046	adapters		10000 rpm	18590g
2201220047	adapters		10000 rpm	18590g
2201220048	adapters		10000 rpm	18590g
2201220049	adapters		10000 rpm	18590g
2201220050	No. 6 Fixed-Angle Rotor	4x1000 ml	8000 rpm	12040g
2201220051	adapters		8000 rpm	12040g
2201220052	adapters		8000 rpm	12040g
2201220053	adapters		8000 rpm	12040g
2201220054	adapters		8000 rpm	12040g
2201220055	adapters		8000 rpm	12040g
2201220056	adapters		8000 rpm	12040g
2201220057	adapters		8000 rpm	12040g
2201220058	adapters		8000 rpm	12040g
2201220059	adapters		8000 rpm	12040g
2201220060	adapters		8000 rpm	12040g
2201220061	adapters		8000 rpm	12040g
2201220062	adapters		8000 rpm	12040g
2201220063	adapters		8000 rpm	12040g
2201220064	adapters		8000 rpm	12040g
2201220065	adapters		8000 rpm	12040g
2201220066	adapters		8000 rpm	12040g
2201220067	adapters		8000 rpm	12040g
2201220068	adapters		8000 rpm	12040g
2201220069	No. 7 Fixed-Angle Rotor	12x50 ml (conical)	14000 rpm	30070g
2201220070	adapters		14000 rpm	30070g
2201220071	adapters		14000 rpm	30070g
2201220072	adapters		14000 rpm	30070g
2201220073	adapters		14000 rpm	30070g
2201220074	adapters		14000 rpm	30070g
2201220075	adapters		14000 rpm	30070g
2201220076	adapters		14000 rpm	30070g
2201220077	adapters		14000 rpm	30070g
2201220078	adapters		14000 rpm	30070g
2201220079	adapters		14000 rpm	30070g
2201220080	No. 8-1 Swing-Bucket Rotor	4x750 ml	5000 rpm	5600g
2201220081	adapters	4x500 ml	5000 rpm	5600g
2201220082	adapters	4x250 ml	5000 rpm	5600g
2201220083	adapters	4x175/225 ml Falcon conical bottle	5000 rpm	5600g
2201220084	adapters	12x100 ml	5000 rpm	5600g
2201220085	adapters	20x50 ml (conical)	5000 rpm	5600g
2201220086	adapters	20x50 ml (round bottom)	5000 rpm	5600g
2201220087	adapters	20x30 ml	5000 rpm	5600g
2201220088	adapters	20x25 ml (conical)	5000 rpm	5600g
2201220089	adapters	56x15 ml	5000 rpm	5600g
2201220090	adapters	72x10 ml	5000 rpm	5600g
2201220091	adapters	56x5 ml (conical)	5000 rpm	5600g
2201220092	adapters	88x1.5/2.0 ml	5000 rpm	5600g

2201220093	adapters	88x2.0 ml	5000 rpm	5600g
2201220094	adapters	96x0.5 ml	5000 rpm	5600g
2201220095	adapters	72x4 -10 ml blood collection / urine tube	5000 rpm	5600g
2201220096	adapters	96x1.6 -7 ml blood collection / urine tube	5000 rpm	5600g
2201220097	adapters	148x5 ml Radio-immunity tube	5000 rpm	5600g
2201220098	adapters	4x30/50 ml Falcon Cell Culture Flasks or 4x30/50 ml Corning Cell Culture Flasks	5000 rpm	5600g
2201220099	adapters	4x40 ml Nunc Cell Culture Flasks	5000 rpm	5600g
2201220100	adapters	4x160 ml Nunc Cell Culture Flasks	5000 rpm	5600g
2201220101	adapters	4x200 ml Falcon Cell Culture Flasks or 4x200 ml Greiner Cell Culture Flasks or 4x200 ml Nunc Cell Culture Flasks	5000 rpm	5600g
2201220102	No. 8-2 Swing-Bucket Rotor	4x500 ml Corning conical bottle	5000 rpm	5600g
2201220103	No. 9 Swing-Bucket Rotor	6x50 ml (round)	10000 rpm	15680g
2201220104	adapters		10000 rpm	15680g
2201220105	adapters		10000 rpm	15680g
2201220106	adapters		10000 rpm	15680g
2201220107	adapters		10000 rpm	15680g
2201220108	adapters		10000 rpm	15680g
2201220109	adapters		10000 rpm	15680g
2201220110	adapters		10000 rpm	15680g
2201220111	adapters		10000 rpm	15680g
2201220112	adapters		10000 rpm	15680g
2201220113	No. 10 Fixed-Angle Rotor	12x15 ml	18000 rpm	34740g
2201220114	adapters		18000 rpm	34740g
2201220115	adapters		18000 rpm	34740g
2201220116	adapters		18000 rpm	34740g
2201220117	adapters		18000 rpm	34740g
2201220118	adapters		18000 rpm	34740g
2201220119	adapters		18000 rpm	34740g

CEN22-05 FLOOR TYPE CENTRIFUGE

LCD display

The inner chamber is made up of stainless steel

Electronic door interlock

Memory of 12 programs

19 levels of acceleration and 19 levels of deceleration

Automatic Blood Collection Tube Decapping at the end of the process, prevent user from being infected by pathogenic bacteria.

It can spin different capacities blood collection tubes from 2 to 7ml

The machine adopts high torque Motor de frecuencia variable, with precise speed-control

SPECIFICATIONS

Model	CEN22-05
Maximum Capacity (No of tubes x Vol.)	4x250 ml
Maximum Speed	5000 rpm

Speed Accuracy	± 10 rpm
Maximum RCF	5200xg
Time Range	Count up or down
Acceleration Rate	40
Deceleration Rate	40
Control System	Microprocessor
Display	Full color touchscreen interface
Programmability	via easy access touchscreen menu
Drive System	Direct, induction motor drive (Inverter Control)
Overall Dimension	680x620x840 mm
Program	1000 user-defined
Noise Level	≤ 60 dB(A)
Weight (Net/Gross)	135 kg
Power	1200 W
Power Supply	AC 200-240 V, 50 Hz or AC 200-240 V, 60 Hz

ACCESSORIES

Accessory Code	Name	Capacity	RPM	RCF _{xg}
2201325008	Swing-out Rotor	4x250 ml	5000	5200xg

OPTIONAL ACCESSORIES

Accessory Code	Name	Description	Capacity	RPM	RCF _{xg}
2201325005	Swing-out Rotor	Blood collection tube	80x2-7 ml	4000	3400xg
2201325006	Swing-out Rotor	Blood collection tube	120x2-7 ml	4000	3580xg
2201325007	Swing-out Rotor	Blood collection tube	140x2-7 ml	4000	3580xg

CEN23-05R FLOOR TYPE REFRIGERATED CENTRIFUGE

Automatic Blood Collection Tube Decapping at the end of the process, prevent user from being infected by pathogenic bacteria.

It can spin different capacities blood collection tubes from 2 to 7ml

Real-time rotation speed and time are displayed over time on LCD display

Brushless DC motor

Inner chamber material: Stainless Steel

Electronic door interlock

Memory of 12 programs

19 levels of acceleration and 19 levels of deceleration

CFC-free refrigerants system (TECUMSEH EUROPE COMPRESSOR)

Precise temperature control with double loop control design is highly efficient, allows fast heating and cooling



SPECIFICATIONS

Model	CEN23-05R
Maximum Capacity (No of tubes x Vol.)	4x250 ml

Temp. Control Range	-20°C to 40°C
Temperature Accuracy	± 1°C
Maximum Speed	5000 rpm with 4 x 250 ml rotor
Speed Accuracy	± 10 rpm
Maximum RCF	5200xg with 4 x 250 ml rotor
Time Range	Count up or down
Acceleration Rate	40
Deceleration Rate	40
Refrigeration System	CFC-Free
Control System	Microprocessor
Display	Full color touchscreen interface
Programmability	via easy access touchscreen menu
Drive System	Direct, induction motor drive (Inverter Control)
Overall Dimension	26.8x24.4x33 in / 68x62x84 mm
Program Storage	1000 user-defined
Noise Level	≤ 60 dB(A)
Weight (Net/Gross)	158 kg
Max. Power Consumption	1800 W
Power Supply	AC 200-240 V, 50 Hz or AC 200-240 V, 60 Hz

OPTIONAL ACCESSORIES

Accessory Code	Name	Rotor Capacity	Max Speed (rpm)	Max RCF(g)
2200607005	No. 1 Swing-Bucket Rotor	4x250 ml	5000 rpm	5200Xg
2200607006	No. 2 Swing-Bucket Rotor	80x1.6-7 ml blood collection tube	4000 rpm	3400Xg
2200607007	No. 3 Swing-Bucket Rotor	120x1.6-7 ml blood collection tube	4000 rpm	3580Xg
2200607008	No. 4 Swing-Bucket Rotor	140x1.6-7 ml blood collection tube	4000 rpm	3580Xg

CEN23-16R FLOOR TYPE REFRIGERATED CENTRIFUGE

- LCD display
- Brushless DC motor
- Microprocessor controller
- Inner chamber material: Stainless Steel
- Electronic door interlock
- Automatic rotor identification and Imbalance protection
- Operating parameters can be modified during the operation
- Memory of 12 programs
- 40 levels of acceleration and 40 levels of deceleration
- Faults are diagnosed automatically
- Over speed, Over temperature protection
- CFC-free refrigerants system (TECUMSEH EUROPE COMPRESSOR)
- Precise temperature control with double loop control design is highly efficient, allows fast heating and cooling
- Low noise and very small vibration
- RCF can be set up directly, without RPM to RCF translation
- 3-layer steel jacket ensures the safety of the user and machine



SPECIFICATIONS

Model	CEN23-16R
Maximum Capacity (No of tubes x Vol.)	6x500 ml , 4 x 750 ml
Temp. Control Range	-20°C to 40°C
Temperature Accuracy	± 1°C
Maximum Speed	16000 rpm with 6x50 ml / 24x1.5/2.0 ml / 16x10 ml , 4500 rpm with 4x750 ml rotor
Speed Accuracy	± 10 rpm
Maximum RCF	27520xg with 6x50 ml , 4530 Xg with 4x750 ml rotor
Time Range	1 min - 99 h : 59 min, Pulse
Acceleration Rate	40
Deceleration Rate	40
Drive System	Direct, high-performance induction motor driving (Inverter Control)
Rotor Locking System	Auto-Lock
Rotor Identification	Auto-ID Instant, Automatic
Control System	Microprocessor
Refrigeration System	CFC-Free
Safety Device	Imbalance protection, over speed protection, over current protection, lid interlock system, lid open/close detection, steel housing, corrosion-resistant stainless steel centrifuge chamber, additional inner steel armored guarding, steel lid, etc.
Overall Dimension	28.7x33.5x36.6 in / 73x85x93 mm
Program Storage	12 user-defined
Noise Level	≤ 62 dB(A)(depending on rotor)
Weight (Net/Gross)	260 kg
Max. Power Consumption	4500 W
Power Supply	AC 200-240 V, 50 Hz or AC 200-240 V, 60 Hz

OPTIONAL ACCESSORIES

Accessory Code	Name	Rotor Capacity	Max Speed (rpm)	Max RCF(g)
2200608005	No. 1 Fixed-Angle Rotor	6x50 ml (round)	16000 rpm	27520g
2200608006	adapters		16000 rpm	27520g
2200608007	adapters		16000 rpm	27520g
2200608008	adapters		16000 rpm	27520g
2200608009	adapters		16000 rpm	27520g
2200608010	adapters		16000 rpm	27520g
2200608011	adapters		16000 rpm	27520g
2200608012	adapters		16000 rpm	27520g
2200608013	adapters		16000 rpm	27520g
2200608014	adapters		16000 rpm	27520g
2200608015	adapters		16000 rpm	27520g
2200608016	No. 2 Fixed-Angle Rotor	24x1.5/2.0 ml(with adapters for 0.2/0.5ml tube)	16000 rpm	25520g
2200608017	No. 3 Fixed-Angle Rotor	16x10 ml	16000 rpm	27500g
2200608018	No. 4 Fixed-Angle Rotor	6x100 ml	14000 rpm	23600g
2200608019	adapters		14000 rpm	23600g
2200608020	adapters		14000 rpm	23600g
2200608021	adapters		14000 rpm	23600g
2200608022	adapters		14000 rpm	23600g

2200608023	adapters		14000 rpm	23600g
2200608024	adapters		14000 rpm	23600g
2200608025	adapters		14000 rpm	23600g
2200608026	adapters		14000 rpm	23600g
2200608027	adapters		14000 rpm	23600g
2200608028	adapters		14000 rpm	23600g
2200608029	adapters		14000 rpm	23600g
2200608030	adapters		14000 rpm	23600g
2200608031	No. 5 Fixed-Angle Rotor	8x50 ml (round)	14000 rpm	23270g
2200608032	adapters		14000 rpm	23270g
2200608033	adapters		14000 rpm	23270g
2200608034	adapters		14000 rpm	23270g
2200608035	adapters		14000 rpm	23270g
2200608036	adapters		14000 rpm	23270g
2200608037	adapters		14000 rpm	23270g
2200608038	adapters		14000 rpm	23270g
2200608039	adapters		14000 rpm	23270g
2200608040	adapters		14000 rpm	23270g
2200608041	adapters		14000 rpm	23270g
2200608042	No. 6 Fixed-Angle Rotor	6x250 ml	10000 rpm	16750g
2200608043	adapters		10000 rpm	16750g
2200608044	adapters		10000 rpm	16750g
2200608045	adapters		10000 rpm	16750g
2200608046	adapters		10000 rpm	16750g
2200608047	adapters		10000 rpm	16750g
2200608048	adapters		10000 rpm	16750g
2200608049	adapters		10000 rpm	16750g
2200608050	adapters		10000 rpm	16750g
2200608051	adapters		10000 rpm	16750g
2200608052	adapters		10000 rpm	16750g
2200608053	adapters		10000 rpm	16750g
2200608054	adapters		10000 rpm	16750g
2200608055	adapters		10000 rpm	16750g
2200608056	No. 7 Fixed-Angle Rotor	6x500 ml	8000 rpm	11860g
2200608057	adapters		8000 rpm	11860g
2200608058	adapters		8000 rpm	11860g
2200608059	adapters		8000 rpm	11860g
2200608060	adapters		8000 rpm	11860g
2200608061	adapters		8000 rpm	11860g
2200608062	adapters		8000 rpm	11860g
2200608063	adapters		8000 rpm	11860g
2200608064	adapters		8000 rpm	11860g
2200608065	adapters		8000 rpm	11860g
2200608066	adapters		8000 rpm	11860g
2200608067	adapters		8000 rpm	11860g
2200608068	adapters		8000 rpm	11860g
2200608069	adapters		8000 rpm	11860g
2200608070	adapters		8000 rpm	11860g

2200608071	adapters		8000 rpm	11860g
2200608072	adapters		8000 rpm	11860g
2200608073	adapters		8000 rpm	11860g
2200608074	No. 8.1 Fixed-Angle Rotor	4x750 ml	4500 rpm	4530g
2200608075	adapters	4x500 ml	4500 rpm	4530g
2200608076	adapters	4x250 ml	4500 rpm	4530g
2200608077	adapters	4x175/225 ml Falcon conical bottle	4500 rpm	4530g
2200608078	adapters	12x100 ml	4500 rpm	4530g
2200608079	adapters	20x50 ml (conical)	4500 rpm	4530g
2200608080	adapters	20x50 ml (round bottom)	4500 rpm	4530g
2200608081	adapters	20x30 ml	4500 rpm	4530g
2200608082	adapters	20x25 ml (conical)	4500 rpm	4530g
2200608083	adapters	56x15 ml	4500 rpm	4530g
2200608084	adapters	72x10 ml	4500 rpm	4530g
2200608085	adapters	56x5 ml (conical)	4500 rpm	4530g
2200608086	adapters	88x1.5/2.0 ml	4500 rpm	4530g
2200608087	adapters	88x2.0 ml	4500 rpm	4530g
2200608088	adapters	96x0.5 ml	4500 rpm	4530g
2200608089	adapters	72x4-10 ml blood collection / urine tube	4500 rpm	4530g
2200608090	adapters	96x1.6-7 ml blood collection / urine tube	4500 rpm	4530g
2200608091	adapters	148x5 ml Radio-immunity tube	4500 rpm	4530g
2200608092	adapters	4x30/50 ml Falcon Cell Culture Flasks or 4x30/50 ml Corning Cell Culture Flasks	4500 rpm	4530g
2200608093	adapters	4x40 ml Nunc Cell Culture Flasks	4500 rpm	4530g
2200608094	adapters	4x160 ml Nunc Cell Culture Flasks	4500 rpm	4530g
2200608095	adapters	4x200 ml Falcon Cell Culture Flasks or 4x200 ml Greiner Cell Culture Flasks or 4x200 ml Nunc Cell Culture Flasks	4500 rpm	4530g
2200608096	No. 8-2 Swing-Bucket Rotor	4x500 ml Corning conical bottle	4500 rpm	4530g

CEN23-50R FLOOR TYPE REFRIGERATED CENTRIFUGE

Microprocessor controlled programmable operation with full color touch screen interface. CFC-free refrigerant system and full color touch screen interface. Stores 1000 user-defined programs in centrifuge memory.



SPECIFICATIONS

Model	CEN23-50R
Maximum Capacity (No of tubes x Vol.)	4x750 ml

Maximum Speed	5000 rpm with 4x250 ml rotor / 4x50 ml rotor / 4x100 ml rotor
Speed Accuracy	±10rpm
Maximum RCF	5200xg with 4x250 ml rotor
Temp. Control Range	-20~40°C
Temperature Accuracy	±1°C
Time Range	Count up or down
Acceleration	40
Deceleration	40
Refrigeration System	CFC-Free
Control System	Microprocessor
Display	Full color touch screen interface
Drive System	Direct,induction motor drive (Inverter Control)
Programmability	Via easy access touch screen menu
Program Storage	1000 user-defined
Safety Device	Imbalance protection, over speed protection, over current protection,lid inter lock system, lid open/close detection, steel housing, corrosion-resistant stainless steel centrifuge chamber, additional inner steel armored guardring, steel lid,etc.
Noise Level	≤58 dB (A)
Weight	158 kg
Overall Dimension	26.8x24.4x33 in / 68x62x84 mm
Max. Power Consumption	1800 KW
Power Supply	AC 200-240V,50Hz or AC 200-240V,60Hz

OPTIONAL ACCESSORIES

Accessory Code	Name	Max Speed (rpm)	Max RCF(g)	Rotar Capacity
2201925005	No. 1 Swing-out Rotor Rotor Cross	5000 rpm	4650g	
2201925006	Tube Racks	5000 rpm	4650g	4x50 ml
2201925007	Tube Racks	5000 rpm	4650g	4x100 ml
2201925008	No. 2 Swing-out Rotor Rotor Cross	4000 rpm	2980g	4x100 ml
2201925009	Tube Racks	4000 rpm	2980g	8x50 ml
2201925010	Tube Racks	4000 rpm	2980g	8x100 ml
2201925011	Tube Racks	4000 rpm	2980g	24x10 ml
2201925012	Tube Racks	4000 rpm	2980g	24x15 ml
2201925013	adapters	4000 rpm	2980g	
2201925014	adapters	4000 rpm	2980g	
2201925015	adapters	4000 rpm	2980g	
2201925016	adapters	4000 rpm	2980g	
2201925017	adapters	4000 rpm	2980g	
2201925018	adapters	4000 rpm	2980g	
2201925019	Tube Racks	4000 rpm	2980g	32x10 ml
2201925020	Tube Racks	4000 rpm	2980g	32x15 ml
2201925021	adapters	4000 rpm	2980g	
2201925022	adapters	4000 rpm	2980g	
2201925023	adapters	4000 rpm	2980g	
2201925024	adapters	4000 rpm	2980g	
2201925025	adapters	4000 rpm	2980g	

2201925026	adapters	4000 rpm	2980g	
2201925027	No. 2-2 Swing-Bucket Rotor	4000 rpm	2980g	4x175/225 ml Falcon conical bottle
2201925028	No. 2-3 Swing-Bucket Rotor	4000 rpm	3100g	36x4-10 ml blood collection / urine tube
2201925029	No. 2-4 Swing-Bucket Rotor	4000 rpm	3100g	48x1.6-7 ml blood collection / urine tube
2201925030	No. 2-5 Swing-Bucket Rotor	4000 rpm	3100g	64x1.6-7 ml blood collection / urine tube
2201925031	No. 3 Swing-Bucket Rotor Rotor Cross (with a wind shield)	4000 rpm	3100g	
2201925032	250ml Round Buckets	5000 rpm	5200g	4x250 ml
2201925033	adapters	5000 rpm	5200g	4x100 ml
2201925034	adapters	5000 rpm	5200g	4x50 ml
2201925035	adapters	5000 rpm	5200g	8x50 ml conical
2201925036	adapters	5000 rpm	5200g	8x50 ml round bottom
2201925037	adapters	5000 rpm	5200g	8x30 ml
2201925038	adapters	5000 rpm	5200g	20x15 ml
2201925039	adapters	5000 rpm	5200g	36x10 ml
2201925040	adapters	5000 rpm	5200g	20x5 ml conical
2201925041	adapters	5000 rpm	5200g	32x1.5/2.0 ml
2201925042	adapters	5000 rpm	5200g	32x2.0 ml
2201925043	adapters	5000 rpm	5200g	40x0.5 ml
2201925044	adapters	5000 rpm	5200g	20x10 ml virus sampling tube
2201925045	adapters	5000 rpm	5200g	28x4-10 ml blood collection / urine tube
2201925046	adapters	5000 rpm	5200g	40x1.6-7 ml blood collection / urine tube
2201925047	No. 4 Swing-Bucket Rotor	4000 rpm	1970g	2x3 pcs microplates (96 wells) or 2x3 pcs microtiter plates or 2x2 pcs cell culture plates or 2x1 pc deep well plates
2201925048	No. 5-1 Swing-Bucket Rotor Rotor Cross	4200 rpm	3550g	
2201925049	500ml Round Buckets	4200 rpm	3550g	4x500 ml
2201925050	Aerosol-tight lids for 500ml Round Buckets	4200 rpm	3550g	
2201925051	adapters	4200 rpm	3550g	4x250 ml
2201925052	adapters	4200 rpm	3550g	4x100 ml
2201925053	adapters	4200 rpm	3550g	16x50 ml conical
2201925054	adapters	4200 rpm	3550g	16x50 ml round bottom
2201925055	adapters	4200 rpm	3550g	16x30 ml
2201925056	adapters	4200 rpm	3550g	36x15 ml
2201925057	adapters	4200 rpm	3550g	56x10 ml
2201925058	adapters	4200 rpm	3550g	36x5 ml conical
2201925059	adapters	4200 rpm	3550g	80x1.5/2.0 ml
2201925060	adapters	4200 rpm	3550g	60x2.0 ml
2201925061	adapters	4200 rpm	3550g	80x0.5 ml
2201925062	adapters	4200 rpm	3550g	36x10 ml virus sampling tube
2201925063	adapters	4200 rpm	3550g	56x4-10 ml blood collection / urine tube
2201925064	adapters	4200 rpm	3550g	72x1.6-7 ml blood collection / urine tube
2201925065	adapters	4200 rpm	3550g	4x175/225 ml Falcon conical bottle
2201925066	Rectangular Buckets	4200 rpm	3550g	
2201925067	adapters	4200 rpm	3550g	20x50 ml conical
2201925068	adapters	4200 rpm	3550g	20x50 ml round bottom
2201925069	adapters	4200 rpm	3550g	20x30 ml

2201925070	adapters	4200 rpm	3550g	40x15 ml
2201925071	adapters	4200 rpm	3550g	40x5 ml conical
2201925072	adapters	4200 rpm	3550g	100x1.5/2.0 ml
2201925073	adapters	4200 rpm	3550g	100x2.0 ml
2201925074	adapters	4200 rpm	3550g	48x10 ml virus sampling tube
2201925075	adapters	4200 rpm	3550g	80x4-10 ml blood collection / urine tube
2201925076	adapters	4200 rpm	3550g	112x1.6-7 ml blood collection / urine tube
2201925077	Round Buckets	4200 rpm	3550g	148x5 ml Radio-immunity tube
2201925078	Round Buckets	4200 rpm	3550g	96x1.6-7 ml blood collection / urine tube
2201925079	Plate Buckets	4200 rpm	3550g	4x3 pcs microplates (96 wells) or 4x3 pcs microtiter plates or 4x2 pcs cell culture plates or 4x1 pc deep well plates
2201925080	No. 5-2 Swing-Bucket Rotor	4200 rpm	3550g	4x250 ml Corning conical bottle or 4x200 ml Nunc bottle
2201925081	No. 6-1 Swing-Bucket Rotor	4200 rpm	3550g	4x750 ml
2201925082	adapters	4200 rpm	3550g	4x500 ml
2201925083	adapters	4200 rpm	3550g	4x250 ml
2201925084	adapters	4200 rpm	3550g	12x100 ml
2201925085	adapters	4200 rpm	3550g	20x50 ml (conical)
2201925086	adapters	4200 rpm	3550g	20x50 ml (round bottom)
2201925087	adapters	4200 rpm	3550g	20x30 ml
2201925088	adapters	4200 rpm	3550g	56x15 ml
2201925089	adapters	4200 rpm	3550g	72x10 ml
2201925090	adapters	4200 rpm	3550g	56x5 ml (conical)
2201925091	adapters	4200 rpm	3550g	96x1.5/2.0 ml
2201925092	adapters	4200 rpm	3550g	88x2.0 ml
2201925093	adapters	4200 rpm	3550g	96x0.5 ml
2201925094	adapters	4200 rpm	3550g	76x4-10 ml blood collection / urine tube
2201925095	adapters	4200 rpm	3550g	96x1.6-7 ml blood collection / urine tube
2201925096	adapters	4200 rpm	3550g	148x5 ml Radio-immunity tube
2201925097	adapters	4200 rpm	3550g	4x175/225 ml Falcon conical bottle
2201925098	adapters	4200 rpm	3550g	4x30/50 ml Falcon Cell Culture Flasks or 4x30/50 ml Corning Cell Culture Flasks
2201925099	adapters	4200 rpm	3550g	4x40 ml Nunc Cell Culture Flasks
2201925100	adapters	4200 rpm	3550g	4x160 ml Nunc Cell Culture Flasks
2201925101	adapters	4200 rpm	3550g	4x200 ml Falcon Cell Culture Flasks or 4x200 ml Greiner Cell Culture Flasks or 4x200 ml Nunc Cell Culture Flasks
2201925102	No. 6-2 Swing-Bucket Rotor	4000 rpm	3500g	4x500 ml Corning conical bottle
2201925103	No. 7 Swing-Bucket Rotor	4000 rpm	3580g	6x250 ml
2201925104	adapters	4000 rpm	3580g	6x100 ml
2201925105	adapters	4000 rpm	3580g	6x50 ml
2201925106	adapters	4000 rpm	3580g	12x50 ml conical
2201925107	adapters	4000 rpm	3580g	12x50 ml round bottom
2201925108	adapters	4000 rpm	3580g	12x30 ml
2201925109	adapters	4000 rpm	3580g	30x15 ml
2201925110	adapters	4000 rpm	3580g	54x10 ml
2201925111	adapters	4000 rpm	3580g	30x5 ml conical
2201925112	adapters	4000 rpm	3580g	48x1.5/2.0 ml

2201925113	adapters	4000 rpm	3580g	48x2.0 ml
2201925114	adapters	4000 rpm	3580g	60x0.5 ml
2201925115	adapters	4000 rpm	3580g	30x10 ml virus sampling tube
2201925116	adapters	4000 rpm	3580g	42x4-10 ml blood collection / urine tube
2201925117	adapters	4000 rpm	3580g	60x1.6-7 ml blood collection / urine tube
2201925118	No. 8 Swing-Bucket Rotor	4000 rpm	3580g	4 x buckets
2201925119	adapters	4000 rpm	3580g	4x500 ml
2201925120	adapters	4000 rpm	3580g	4x250 ml
2201925121	adapters	4000 rpm	3580g	16x100 ml
2201925122	adapters	4000 rpm	3580g	28x50 ml (conical)
2201925123	adapters	4000 rpm	3580g	28x50 ml (round bottom)
2201925124	adapters	4000 rpm	3580g	28x30 ml
2201925125	adapters	4000 rpm	3580g	56x15 ml
2201925126	adapters	4000 rpm	3580g	72x10 ml
2201925127	adapters	4000 rpm	3580g	56x5 ml (conical)
2201925128	adapters	4000 rpm	3580g	88x1.5/2.0 ml
2201925129	adapters	4000 rpm	3580g	88x2.0 ml
2201925130	adapters	4000 rpm	3580g	140x1.6-7 ml blood collection / urine tube

CEN23-40R FLOOR TYPE REFRIGERATED CENTRIFUGE

Microcomputer controlled and CFC-free refrigerant system. Can store 12 user-defined programs. Maximum speed of 22000 RPM.



SPECIFICATIONS

Model	CEN23-40R
Maximum Capacity (No of tubes x Vol.)	4x1000 ml , 4x750 ml
Maximum Speed	22000 rpm with 16x10 ml , 13000 rpm with 4x30 ml rotor
Speed Accuracy	± 10rpm
Maximum RCF	52050Xg with 16x10 ml , 23800Xg with 4x30 ml rotor
Temp. Control Range	-20~40°C
Temperature Accuracy	± 1°C
Time Range	1 min-99 h:59 min,Pulse
Acceleration	40
Deceleration	40
Refrigeration System	CFC-Free
Control System	Microprocessor
Rotor Identification	Auto-ID Instant, immediately upon rotor insertion

Drive System	Direct, induction motor drive (Inverter Control)
Program Storage	1000 user-defined
Safety Device	Rotor identification system with overspeed protection, imbalance protection, overcurrent protection, lid interlock system, lid open / close detection, steel housing, corrosion-resistant stainless steel centrifuge chamber, additional inner steel armored guarding, steel lid, etc.
Noise Level	≤65 dB (A)
Weight	260 kg
Overall Dimension	28.7x33.5x36.6 in / 73x85x93 mm
Max. Power Consumption	5000 KW
Power Supply	AC 200-240V,50Hz or AC 200-240V,60Hz

OPTIONAL ACCESSORIES

Accessory Code	Name	Rotar Capacity	Max Speed (rpm)	Max RCF(g)
2201926005	No. 1 Fixed-Angle Rotor	16x10 ml	22000 rpm	50685g
2201926006	No. 2 Fixed-Angle Rotor	24x1.5/2.0 ml(with adapters for 0.2/0.5ml tube)	21000 rpm	43960g
2201926007	No. 3 Fixed-Angle Rotor	8x50 ml (round)	20000 rpm	47480g
2201926008	adapters		20000 rpm	47480g
2201926009	adapters		20000 rpm	47480g
2201926010	adapters		20000 rpm	47480g
2201926011	adapters		20000 rpm	47480g
2201926012	adapters		20000 rpm	47480g
2201926013	adapters		20000 rpm	47480g
2201926014	adapters		20000 rpm	47480g
2201926015	adapters		20000 rpm	47480g
2201926016	adapters		20000 rpm	47480g
2201926017	adapters		20000 rpm	47480g
2201926018	No. 4 Fixed-Angle Rotor	6x100 ml	16000 rpm	30910g
2201926019	adapters		16000 rpm	30910g
2201926020	adapters		16000 rpm	30910g
2201926021	adapters		16000 rpm	30910g
2201926022	adapters		16000 rpm	30910g
2201926023	adapters		16000 rpm	30910g
2201926024	adapters		16000 rpm	30910g
2201926025	adapters		16000 rpm	30910g
2201926026	adapters		16000 rpm	30910g
2201926027	adapters		16000 rpm	30910g
2201926028	adapters		16000 rpm	30910g
2201926029	adapters		16000 rpm	30910g
2201926030	adapters		16000 rpm	30910g
2201926031	No. 5 Fixed-Angle Rotor	8x100 ml	12000 rpm	19830g
2201926032	adapters		12000 rpm	19830g
2201926033	adapters		12000 rpm	19830g
2201926034	adapters		12000 rpm	19830g
2201926035	adapters		12000 rpm	19830g
2201926036	adapters		12000 rpm	19830g
2201926037	adapters		12000 rpm	19830g

2201926038	adapters		12000 rpm	19830g
2201926039	adapters		12000 rpm	19830g
2201926040	adapters		12000 rpm	19830g
2201926041	adapters		12000 rpm	19830g
2201926042	adapters		12000 rpm	19830g
2201926043	adapters		12000 rpm	19830g
2201926044	No. 6 Fixed-Angle Rotor	4x250 ml	14000 rpm	28150g
2201926045	adapters		14000 rpm	28150g
2201926046	adapters		14000 rpm	28150g
2201926047	adapters		14000 rpm	28150g
2201926048	adapters		14000 rpm	28150g
2201926049	adapters		14000 rpm	28150g
2201926050	adapters		14000 rpm	28150g
2201926051	adapters		14000 rpm	28150g
2201926052	adapters		14000 rpm	28150g
2201926053	adapters		14000 rpm	28150g
2201926054	adapters		14000 rpm	28150g
2201926055	adapters		14000 rpm	28150g
2201926056	adapters		14000 rpm	28150g
2201926057	adapters		14000 rpm	28150g
2201926058	No. 7 Fixed-Angle Rotor	6x250 ml	12000 rpm	24110g
2201926059	adapters		12000 rpm	24110g
2201926060	adapters		12000 rpm	24110g
2201926061	adapters		12000 rpm	24110g
2201926062	adapters		12000 rpm	24110g
2201926063	adapters		12000 rpm	24110g
2201926064	adapters		12000 rpm	24110g
2201926065	adapters		12000 rpm	24110g
2201926066	adapters		12000 rpm	24110g
2201926067	adapters		12000 rpm	24110g
2201926068	adapters		12000 rpm	24110g
2201926069	adapters		12000 rpm	24110g
2201926070	adapters		12000 rpm	24110g
2201926071	adapters		12000 rpm	24110g
2201926072	No. 8 Fixed-Angle Rotor	6x500 ml	10000 rpm	18590g
2201926073	adapters		10000 rpm	18590g
2201926074	adapters		10000 rpm	18590g
2201926075	adapters		10000 rpm	18590g
2201926076	adapters		10000 rpm	18590g
2201926077	adapters		10000 rpm	18590g
2201926078	adapters		10000 rpm	18590g
2201926079	adapters		10000 rpm	18590g
2201926080	adapters		10000 rpm	18590g
2201926081	adapters		10000 rpm	18590g
2201926082	adapters		10000 rpm	18590g
2201926083	adapters		10000 rpm	18590g
2201926084	adapters		10000 rpm	18590g
2201926085	adapters		10000 rpm	18590g

2201926086	adapters		10000 rpm	18590g
2201926087	adapters		10000 rpm	18590g
2201926088	adapters		10000 rpm	18590g
2201926089	adapters		10000 rpm	18590g
2201926090	No. 9 Fixed-Angle Rotor	4x1000 ml	8000 rpm	12040g
2201926091	adapters		8000 rpm	12040g
2201926092	adapters		8000 rpm	12040g
2201926093	adapters		8000 rpm	12040g
2201926094	adapters		8000 rpm	12040g
2201926095	adapters		8000 rpm	12040g
2201926096	adapters		8000 rpm	12040g
2201926097	adapters		8000 rpm	12040g
2201926098	adapters		8000 rpm	12040g
2201926099	adapters		8000 rpm	12040g
2201926100	adapters		8000 rpm	12040g
2201926101	adapters		8000 rpm	12040g
2201926102	adapters		8000 rpm	12040g
2201926103	adapters		8000 rpm	12040g
2201926104	adapters		8000 rpm	12040g
2201926105	adapters		8000 rpm	12040g
2201926106	adapters		8000 rpm	12040g
2201926107	adapters		8000 rpm	12040g
2201926108	adapters		8000 rpm	12040g
2201926109	No. 10 Swing-Bucket Rotor	4x50 ml	10000 rpm	16200g
2201926110	adapters		10000 rpm	16200g
2201926111	adapters		10000 rpm	16200g
2201926112	adapters		10000 rpm	16200g
2201926113	adapters		10000 rpm	16200g
2201926114	adapters		10000 rpm	16200g
2201926115	adapters		10000 rpm	16200g
2201926116	adapters		10000 rpm	16200g
2201926117	adapters		10000 rpm	16200g
2201926118	adapters		10000 rpm	16200g
2201926119	No. 11 Swing-Bucket Rotor	4x30 ml	13000 rpm	23800g
2201926120	adapters		13000 rpm	23800g
2201926121	adapters		13000 rpm	23800g
2201926122	adapters		13000 rpm	23800g
2201926123	No. 12 Swing-Bucket Rotor	4x4x5 ml	12000 rpm	11900g
2201926124	No. 13-1 Swing-Bucket Rotor	4x750 ml	5000 rpm	5600g
2201926125	adapters	4x500 ml	5000 rpm	5600g
2201926126	adapters	4x250 ml	5000 rpm	5600g
2201926127	adapters	4x175/225 ml Falcon conical bottle	5000 rpm	5600g
2201926128	adapters	12x100 ml	5000 rpm	5600g
2201926129	adapters	20x50 ml (conical)	5000 rpm	5600g
2201926130	adapters	20x50 ml (round bottom)	5000 rpm	5600g
2201926131	adapters	20x30 ml	5000 rpm	5600g
2201926132	adapters	20x25 ml (conical)	5000 rpm	5600g

2201926133	adapters	56x15 ml	5000 rpm	5600g
2201926134	adapters	72x10 ml	5000 rpm	5600g
2201926135	adapters	56x5 ml (conical)	5000 rpm	5600g
2201926136	adapters	88x1.5/2.0 ml	5000 rpm	5600g
2201926137	adapters	88x2.0 ml	5000 rpm	5600g
2201926138	adapters	96x0.5 ml	5000 rpm	5600g
2201926139	adapters	72x4-10 ml blood collection / urine tube	5000 rpm	5600g
2201926140	adapters	96x1.6-7 ml blood collection / urine tube	5000 rpm	5600g
2201926141	adapters	148x5 ml Radio-immunity tube	5000 rpm	5600g
2201926142	adapters	4x30/50 ml Falcon Cell Culture Flasks or 4x30/50 ml Corning Cell Culture Flasks	5000 rpm	5600g
2201926143	adapters	4x40 ml Nunc Cell Culture Flasks	5000 rpm	5600g
2201926144	adapters	4x160 ml Nunc Cell Culture Flasks	5000 rpm	5600g
2201926145	adapters	4x200 ml Falcon Cell Culture Flasks or 4x200 ml Greiner Cell Culture Flasks or 4x200 ml Nunc Cell Culture Flasks	5000 rpm	5600g
2201926146	No. 13-2 Swing-Bucket Rotor	4x500 ml Corning conical bottle	5000 rpm	5600g

CEN23-21R FLOOR TYPE REFRIGERATED CENTRIFUGE

Microcomputer controlled and CFC-free refrigerant system. Can store 12 user-defined programs. Maximum speed of 21000 RPM.



SPECIFICATIONS

Model	CEN23-21R
Maximum Capacity (No of tubes x Vol.)	4x1000 ml , 4x50 ml
Maximum Speed	21000 rpm with 16x10 ml , 13000 rpm with 4x30 ml rotor
Speed Accuracy	±10rpm
Maximum RCF	47400xg with 16x10 ml , 23800Xg with 4x30 ml rotor
Temp. Control Range	-20~40°C increments
Temperature Accuracy	±1°C
Time Range	1 min-99 h:59 min,Pulse
Acceleration	40
Deceleration	40
Refrigeration System	CFC-Free

Control System	Microprocessor
Rotor Identification	Auto-ID Instant, automatic
Drive System	Direct, high-performance induction motor driving (Inverter Control)
Program	1000 user-defined
Safety Device	Rotor identification system with overspeed protection, imbalance protection, overcurrent protection, lid interlock system, lid open / close detection, steel housing, corrosion-resistant stainless steel centrifuge chamber, additional inner steel armored guarding, steel lid, etc.
Noise Level	≤65 dB (A)
Weight	260 kg
Overall Dimension	28.7x33.5x36.6 in / 73x85x93 mm
Power	5000 KW
Power Supply	AC 200-240V,50Hz or AC 200-240V,60Hz

OPTIONAL ACCESSORIES

Accessory Code	Name	Rotar Capacity	Max Speed (rpm)	Max RCF(g)
2201927005	No. 1 Fixed-Angle Rotor	16x10 ml	21000 rpm	47400g
2201927006	No. 2 Fixed-Angle Rotor	24x1.5/2.0 ml(with adapters for 0.2/0.5ml tube)	21000 rpm	43960g
2201927007	No. 3 Fixed-Angle Rotor	6x50 ml (round)	20000 rpm	44800g
2201927008	adapters		20000 rpm	44800g
2201927009	adapters		20000 rpm	44800g
2201927010	adapters		20000 rpm	44800g
2201927011	adapters		20000 rpm	44800g
2201927012	adapters		20000 rpm	44800g
2201927013	adapters		20000 rpm	44800g
2201927014	adapters		20000 rpm	44800g
2201927015	adapters		20000 rpm	44800g
2201927016	adapters		20000 rpm	44800g
2201927017	adapters		20000 rpm	44800g
2201927018	No. 4 Fixed-Angle Rotor	8x50 ml (round)	18000 rpm	38460g
2201927019	adapters		18000 rpm	38460g
2201927020	adapters		18000 rpm	38460g
2201927021	adapters		18000 rpm	38460g
2201927022	adapters		18000 rpm	38460g
2201927023	adapters		18000 rpm	38460g
2201927024	adapters		18000 rpm	38460g
2201927025	adapters		18000 rpm	38460g
2201927026	adapters		18000 rpm	38460g
2201927027	adapters		18000 rpm	38460g
2201927028	adapters		18000 rpm	38460g
2201927029	No. 5 Fixed-Angle Rotor	6x100 ml	16000 rpm	30910g
2201927030	adapters		16000 rpm	30910g
2201927031	adapters		16000 rpm	30910g
2201927032	adapters		16000 rpm	30910g
2201927033	adapters		16000 rpm	30910g
2201927034	adapters		16000 rpm	30910g
2201927035	adapters		16000 rpm	30910g

2201927036	adapters		16000 rpm	30910g
2201927037	adapters		16000 rpm	30910g
2201927038	adapters		16000 rpm	30910g
2201927039	adapters		16000 rpm	30910g
2201927040	adapters		16000 rpm	30910g
2201927041	adapters		16000 rpm	30910g
2201927042	No. 6 Fixed-Angle Rotor	8x100 ml	12000 rpm	19830g
2201927043	adapters		12000 rpm	19830g
2201927044	adapters		12000 rpm	19830g
2201927045	adapters		12000 rpm	19830g
2201927046	adapters		12000 rpm	19830g
2201927047	adapters		12000 rpm	19830g
2201927048	adapters		12000 rpm	19830g
2201927049	adapters		12000 rpm	19830g
2201927050	adapters		12000 rpm	19830g
2201927051	adapters		12000 rpm	19830g
2201927052	adapters		12000 rpm	19830g
2201927053	adapters		12000 rpm	19830g
2201927054	adapters		12000 rpm	19830g
2201927055	No. 7 Fixed-Angle Rotor	4x250 ml	14000 rpm	28150g
2201927056	adapters		14000 rpm	28150g
2201927057	adapters		14000 rpm	28150g
2201927058	adapters		14000 rpm	28150g
2201927059	adapters		14000 rpm	28150g
2201927060	adapters		14000 rpm	28150g
2201927061	adapters		14000 rpm	28150g
2201927062	adapters		14000 rpm	28150g
2201927063	adapters		14000 rpm	28150g
2201927064	adapters		14000 rpm	28150g
2201927065	adapters		14000 rpm	28150g
2201927066	adapters		14000 rpm	28150g
2201927067	adapters		14000 rpm	28150g
2201927068	adapters		14000 rpm	28150g
2201927069	No. 8 Fixed-Angle Rotor	6x250 ml	12000 rpm	24110g
2201927070	adapters		12000 rpm	24110g
2201927071	adapters		12000 rpm	24110g
2201927072	adapters		12000 rpm	24110g
2201927073	adapters		12000 rpm	24110g
2201927074	adapters		12000 rpm	24110g
2201927075	adapters		12000 rpm	24110g
2201927076	adapters		12000 rpm	24110g
2201927077	adapters		12000 rpm	24110g
2201927078	adapters		12000 rpm	24110g
2201927079	adapters		12000 rpm	24110g
2201927080	adapters		12000 rpm	24110g
2201927081	adapters		12000 rpm	24110g
2201927082	adapters		12000 rpm	24110g
2201927083	No. 9 Fixed-Angle Rotor	6x500 ml	10000 rpm	18590g

2201927084	adapters		10000 rpm	18590g
2201927085	adapters		10000 rpm	18590g
2201927086	adapters		10000 rpm	18590g
2201927087	adapters		10000 rpm	18590g
2201927088	adapters		10000 rpm	18590g
2201927089	adapters		10000 rpm	18590g
2201927090	adapters		10000 rpm	18590g
2201927091	adapters		10000 rpm	18590g
2201927092	adapters		10000 rpm	18590g
2201927093	adapters		10000 rpm	18590g
2201927094	adapters		10000 rpm	18590g
2201927095	adapters		10000 rpm	18590g
2201927096	adapters		10000 rpm	18590g
2201927097	adapters		10000 rpm	18590g
2201927098	adapters		10000 rpm	18590g
2201927099	adapters		10000 rpm	18590g
2201927100	adapters		10000 rpm	18590g
2201927101	No. 10 Fixed-Angle Rotor	4x1000 ml	8000 rpm	12040g
2201927102	adapters		8000 rpm	12040g
2201927103	adapters		8000 rpm	12040g
2201927104	adapters		8000 rpm	12040g
2201927105	adapters		8000 rpm	12040g
2201927106	adapters		8000 rpm	12040g
2201927107	adapters		8000 rpm	12040g
2201927108	adapters		8000 rpm	12040g
2201927109	adapters		8000 rpm	12040g
2201927110	adapters		8000 rpm	12040g
2201927111	adapters		8000 rpm	12040g
2201927112	adapters		8000 rpm	12040g
2201927113	adapters		8000 rpm	12040g
2201927114	adapters		8000 rpm	12040g
2201927115	adapters		8000 rpm	12040g
2201927116	adapters		8000 rpm	12040g
2201927117	adapters		8000 rpm	12040g
2201927118	adapters		8000 rpm	12040g
2201927119	adapters		8000 rpm	12040g
2201927120	No. 11 Fixed-Angle Rotor	4x50 ml	10000 rpm	16200g
2201927121	adapters		10000 rpm	16200g
2201927122	adapters		10000 rpm	16200g
2201927123	adapters		10000 rpm	16200g
2201927124	adapters		10000 rpm	16200g
2201927125	adapters		10000 rpm	16200g
2201927126	adapters		10000 rpm	16200g
2201927127	adapters		10000 rpm	16200g
2201927128	adapters		10000 rpm	16200g
2201927129	adapters		10000 rpm	16200g
2201927130	No. 12 Fixed-Angle Rotor	4x30 ml	13000 rpm	23800g
2201927131	adapters		13000 rpm	23800g

2201927132	adapters		13000 rpm	23800g
2201927133	adapters		13000 rpm	23800g
2201927134	No. 13 Fixed-Angle Rotor	4x4x5 ml	12000 rpm	11900g

CEN23-10R FLOOR TYPE REFRIGERATED CENTRIFUGE

Microcomputer controlled and CFC-free refrigerant system. Can store 12 user-defined programs. Maximum speed of 10000 RPM.



SPECIFICATIONS

Model	CEN23-10R
Maximum Capacity (No of tubes x Vol.)	6x1000 ml , 4x750 ml
Maximum Speed	10000 rpm with 6x500 ml / 6x250 ml , 4000 rpm with 4x750 ml rotor
Speed Accuracy	± 10rpm
Maximum RCF	18590xg with 6x500 ml ,3500Xg with 4x750 ml rotor
Temp. Control Range	-20~40°C increments
Temperature Accuracy	±1°C
Time Range	1 min-99 h:59 min,Pulse
Acceleration	40
Deceleration	40
Refrigeration System	CFC-Free
Control System	Microprocessor
Rotor locking System	Auto-lock
Rotor Identification	Auto-ID Instant, automatic
Drive System	Direct, high-performance induction motor driving (Inverter Control)
Program	1000 user-defined
Safety Device	Rotor identification system with overspeed protection, imbalance protection, overcurrent protection, lid interlock system, lid open / close detection, steel housing, corrosion-resistant stainless steel centrifuge chamber, additional inner steel armored guarding, steel lid,etc.
Noise Level	≤65 dB (A)
Weight	260 kg
Overall Dimension	28.7x33.5x36.6 in / 73x85x93 mm
Max. Power Consumption	5500 KW
Power Supply	AC 200-240V,50Hz or AC 200-240V,60Hz

OPTIONAL ACCESSORIES

Accessory Code	Name	Rotar Capacity	Max Speed (rpm)	Max RCF(g)
2201928005	No. 1 Fixed-Angle Rotor	6x500 ml	10000 rpm	18590g
2201928006	adapters		10000 rpm	18590g
2201928007	adapters		10000 rpm	18590g
2201928008	adapters		10000 rpm	18590g
2201928009	adapters		10000 rpm	18590g
2201928010	adapters		10000 rpm	18590g
2201928011	adapters		10000 rpm	18590g
2201928012	adapters		10000 rpm	18590g
2201928013	adapters		10000 rpm	18590g
2201928014	adapters		10000 rpm	18590g
2201928015	adapters		10000 rpm	18590g
2201928016	adapters		10000 rpm	18590g
2201928017	adapters		10000 rpm	18590g
2201928018	adapters		10000 rpm	18590g
2201928019	adapters		10000 rpm	18590g
2201928020	adapters		10000 rpm	18590g
2201928021	adapters		10000 rpm	18590g
2201928022	adapters		10000 rpm	18590g
2201928023	No. 2 Fixed-Angle Rotor	6x1000 ml	8000 rpm	15190g
2201928024	adapters		8000 rpm	15190g
2201928025	adapters		8000 rpm	15190g
2201928026	adapters		8000 rpm	15190g
2201928027	adapters		8000 rpm	15190g
2201928028	adapters		8000 rpm	15190g
2201928029	adapters		8000 rpm	15190g
2201928030	adapters		8000 rpm	15190g
2201928031	adapters		8000 rpm	15190g
2201928032	adapters		8000 rpm	15190g
2201928033	adapters		8000 rpm	15190g
2201928034	adapters		8000 rpm	15190g
2201928035	adapters		8000 rpm	15190g
2201928036	adapters		8000 rpm	15190g
2201928037	adapters		8000 rpm	15190g
2201928038	adapters		8000 rpm	15190g
2201928039	adapters		8000 rpm	15190g
2201928040	adapters		8000 rpm	15190g
2201928041	adapters		8000 rpm	15190g
2201928042	No. 3 Fixed-Angle Rotor	6x250 ml	10000 rpm	16750g
2201928043	adapters		10000 rpm	16750g
2201928044	adapters		10000 rpm	16750g
2201928045	adapters		10000 rpm	16750g
2201928046	adapters		10000 rpm	16750g
2201928047	adapters		10000 rpm	16750g
2201928048	adapters		10000 rpm	16750g

2201928049	adapters		10000 rpm	16750g
2201928050	adapters		10000 rpm	16750g
2201928051	adapters		10000 rpm	16750g
2201928052	adapters		10000 rpm	16750g
2201928053	adapters		10000 rpm	16750g
2201928054	adapters		10000 rpm	16750g
2201928055	adapters		10000 rpm	16750g
2201928056	No. 4-1 Fixed-Angle Rotor	4x750 ml	4000 rpm	3500g
2201928057	adapters	4x500 ml	4000 rpm	3500g
2201928058	adapters	4x250 ml	4000 rpm	3500g
2201928059	adapters	4x175/225 ml Falcon conical bottle	4000 rpm	3500g
2201928060	adapters	12x100 ml	4000 rpm	3500g
2201928061	adapters	20x50 ml (conical)	4000 rpm	3500g
2201928062	adapters	20x50 ml (round bottom)	4000 rpm	3500g
2201928063	adapters	20x30 ml	4000 rpm	3500g
2201928064	adapters	20x25 ml (conical)	4000 rpm	3500g
2201928065	adapters	56x15 ml	4000 rpm	3500g
2201928066	adapters	72x10 ml	4000 rpm	3500g
2201928067	adapters	56x5 ml (conical)	4000 rpm	3500g
2201928068	adapters	88x1.5/2.0 ml	4000 rpm	3500g
2201928069	adapters	88x2.0 ml	4000 rpm	3500g
2201928070	adapters	96x0.5 ml	4000 rpm	3500g
2201928071	adapters	72x4-10 ml blood collection / urine tube	4000 rpm	3500g
2201928072	adapters	96x1.6-7 ml blood collection / urine tube	4000 rpm	3500g
2201928073	adapters	148x5 ml Radio-immunity tube	4000 rpm	3500g
2201928074	adapters	4x30/50 ml Falcon Cell Culture Flasks or 4x30/50 ml Corning Cell Culture Flasks	4000 rpm	3500g
2201928075	adapters	4x40 ml Nunc Cell Culture Flasks	4000 rpm	3500g
2201928076	adapters	4x160 ml Nunc Cell Culture Flasks	4000 rpm	3500g
2201928077	adapters	4x200 ml Falcon Cell Culture Flasks or 4x200 ml Greiner Cell Culture Flasks or 4x200 ml Nunc Cell Culture Flasks	4000 rpm	3500g
2201928078	No. 4-2 Swing-Bucket Rotor	4x500 ml Corning conical bottle	4000 rpm	3500g

CEN37-0700R BLOOD BANK REFRIGERATED CENTRIFUGE

- Brushless DC motor
- Servomotor was adopt for lid open & lid lock, emergency lid release.
- LED display
- Microprocessor controller
- Inner chamber material: Stainless Steel
- Electronic door interlock
- Imbalance detection system
- Memory of 10 programs
- 10 levels of acceleration and 10 levels of deceleration
- Faults are diagnosed automatically
- CFC-free refrigerants system (TECUMSEH EUROPE COMPRESSOR)
- Precise temperature control with double loop control design is highly efficient, allows fast heating and cooling



SPECIFICATIONS

Model	CEN37-0700R
Maximum Capacity (No of tubes x Vol.)	6x2000 ml bottles or 12 blood bags , 6 x 1 000 ml
Temperature Range	-20°C to 40°C
Temperature Accuracy	± 1°C
Maximum Speed	8 000 rpm with 6 x 500 ml , 4500 rpm
Speed Accuracy	± 20 rpm
Maximum RCF	14 500 Xg with 6 x 1 000 ml , 7095xg
Time Range	1~99 h : 59 min : 59 s
Control System	Microprocessor
Refrigeration System	CFC-Free
Drive System	Flex-spin drive system
Drive Motor	High-performance induction motor (Inverter Control)
Display	Full color touchscreen interface
Programmability	via easy access touchscreen menu
Program Storage	1000 user-defined
Safety Device	Imbalance protection,over speed protection,over current protection,lid interlock system,lid open/close detection, steel housing, corrosion-resistant stainless steel centrifuge chamber, additional inner steel armored guarding,steel lid,etc.
Overall Dimension	34.6 x 37.8 x 37.4 in / 88 x 96 x 95 mm
Noise Level	≤ 65 dB(A)
Weight (Net/Gross)	560 kg
Power	7500 KW
Power Supply	AC 200-240 V, 50 Hz, AC 200-240 V, 60 Hz, AC 380V, 50Hz, AC 380V, 60Hz

OPTIONAL ACCESSORIES

Accessory Code	Name	Rotor Capacity	Max Speed (rpm)	Max RCF(g)
2200613005	No. 1 Swing-Bucket Rotor	6x2000 ml	4000 rpm	7095g
2200613006	No. 2 Fixed-Angle Rotor	6x1000 ml	8000 rpm	14500g
2200613007	adapters		8000 rpm	14500g

2200613008	adapters		8000 rpm	14500g
2200613009	adapters		8000 rpm	14500g
2200613010	adapters		8000 rpm	14500g
2200613011	adapters		8000 rpm	14500g
2200613012	adapters		8000 rpm	14500g
2200613013	adapters		8000 rpm	14500g
2200613014	adapters		8000 rpm	14500g
2200613015	adapters		8000 rpm	14500g
2200613016	adapters		8000 rpm	14500g
2200613017	adapters		8000 rpm	14500g
2200613018	adapters		8000 rpm	14500g
2200613019	adapters		8000 rpm	14500g
2200613020	adapters		8000 rpm	14500g
2200613021	adapters		8000 rpm	14500g
2200613022	adapters		8000 rpm	14500g
2200613023	adapters		8000 rpm	14500g
2200613024	adapters		8000 rpm	14500g
2200613025	No. 3 Fixed-Angle Rotor	6x500 ml	8000 rpm	11860g
2200613026	adapters		8000 rpm	11860g
2200613027	adapters		8000 rpm	11860g
2200613028	adapters		8000 rpm	11860g
2200613029	adapters		8000 rpm	11860g
2200613030	adapters		8000 rpm	11860g
2200613031	adapters		8000 rpm	11860g
2200613032	adapters		8000 rpm	11860g
2200613033	adapters		8000 rpm	11860g
2200613034	adapters		8000 rpm	11860g
2200613035	adapters		8000 rpm	11860g
2200613036	adapters		8000 rpm	11860g
2200613037	adapters		8000 rpm	11860g
2200613038	adapters		8000 rpm	11860g
2200613039	adapters		8000 rpm	11860g
2200613040	adapters		8000 rpm	11860g
2200613041	adapters		8000 rpm	11860g
2200613042	adapters		8000 rpm	11860g
2200613043	No. 4 Swing-Bucket Rotor	384x1.6-7 ml blood collection / urine tube	4000 rpm	4710g



Labstac LLC

82 Wendell Avenue, STE 100, Pittsfield, MA, 01201, USA

Email: contact@labstac.com | Website: labstac.com