

FLOOR TYPE REFRIGERATED CENTRIFUGE CEN23-22R



FLOOR TYPE REFRIGERATED CENTRIFUGE

CEN23-22R

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, Benchtop Centrifuge, Laboratory Tabletop Centrifuge.

CEN23-22R 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	CEN23-22R
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 , 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 , 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)
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	26.8 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)
2201219005	No. 1 Fixed-Angle Rotor	12x1.5/2.0 ml(with adapters for 0.2/0.5ml tube)	22000 rpm	33820g
2201219006	No. 2 Fixed-Angle Rotor	12x5 ml	17000 rpm	23460g
2201219007	No. 3-1 Fixed-Angle Rotor	24x1.5/2.0 ml(with adapters for 0.2/0.5ml tube)	16500 rpm	26360g
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
2201219009	No. 4-1 Fixed-Angle Rotor	12x10 ml	15000 rpm	20800g
2201219010	No. 4-2 Fixed-Angle Rotor	36x1.5/2.0 ml(with adapters for 0.2/0.5ml tube)	15000 rpm	20800g
2201219011	No. 4-3 Fixed-Angle Rotor	8x15 ml	15000 rpm	20800g
2201219012	adapters		15000 rpm	20800g
2201219013	adapters		15000 rpm	20800g
2201219014	adapters		15000 rpm	20800g
2201219015	adapters		15000 rpm	20800g
2201219016	adapters		15000 rpm	20800g
2201219017	adapters		15000 rpm	20800g
2201219018	No. 5-1 Fixed-Angle Rotor	6x50 ml (conical)	13000 rpm	18420g
2201219019	adapters		13000 rpm	18420g
2201219020	adapters		13000 rpm	18420g
2201219021	adapters		13000 rpm	18420g
2201219022	adapters		13000 rpm	18420g
2201219023	adapters		13000 rpm	18420g
2201219024	adapters		13000 rpm	18420g
2201219025	adapters		13000 rpm	18420g
2201219026	adapters		13000 rpm	18420g
2201219027	adapters		13000 rpm	18420g
2201219028	adapters		13000 rpm	18420g
2201219029	No. 5-2 Fixed-Angle Rotor	48x1.5/2.0 ml(with adapters for 0.2/0.5ml tube)	13000 rpm	18420g
2201219030	No. 5-3 Fixed-Angle Rotor	6x50 ml (round bottom)	13000 rpm	18420g
2201219031	adapters		13000 rpm	18420g

2201219032	adapters		13000 rpm	18420g
2201219033	adapters		13000 rpm	18420g
2201219034	adapters		13000 rpm	18420g
2201219035	adapters		13000 rpm	18420g
2201219036	adapters		13000 rpm	18420g
2201219037	adapters		13000 rpm	18420g
2201219038	adapters		13000 rpm	18420g
2201219039	adapters		13000 rpm	18420g
2201219040	No. 6-1 Fixed-Angle Rotor	4x100 ml	11000 rpm	13350g
2201219041	adapters		11000 rpm	13350g
2201219042	adapters		11000 rpm	13350g
2201219043	adapters		11000 rpm	13350g
2201219044	adapters		11000 rpm	13350g
2201219045	adapters		11000 rpm	13350g
2201219046	adapters		11000 rpm	13350g
2201219047	adapters		11000 rpm	13350g
2201219048	adapters		11000 rpm	13350g
2201219049	adapters		11000 rpm	13350g
2201219050	adapters		11000 rpm	13350g
2201219051	adapters		11000 rpm	13350g
2201219052	adapters		11000 rpm	13350g
2201219053	No. 6-2 Fixed-Angle Rotor	8x50 ml (conical)	11000 rpm	13350g
2201219054	adapters		11000 rpm	13350g
2201219055	adapters		11000 rpm	13350g
2201219056	adapters		11000 rpm	13350g
2201219057	adapters		11000 rpm	13350g
2201219058	adapters		11000 rpm	13350g
2201219059	adapters		11000 rpm	13350g
2201219060	adapters		11000 rpm	13350g
2201219061	adapters		11000 rpm	13350g
2201219062	adapters		11000 rpm	13350g
2201219063	adapters		11000 rpm	13350g
2201219064	No. 6-3 Fixed-Angle Rotor	12x15 ml	13000 rpm	18650g
2201219065	7171506.3FA1		13000 rpm	18650g
2201219066	7171506.3FA1		13000 rpm	18650g
2201219067	7171506.3FA1		13000 rpm	18650g
2201219068	7171506.3FA1		13000 rpm	18650g
2201219069	7171506.3FA1		13000 rpm	18650g
2201219070	7171506.3FA1		13000 rpm	18650g
2201219071	No. 6-4 Fixed-Angle Rotor	8x50 ml (round bottom)	11000 rpm	13350g
2201219072	adapters		11000 rpm	13350g
2201219073	adapters		11000 rpm	13350g
2201219074	adapters		11000 rpm	13350g
2201219075	adapters		11000 rpm	13350g
2201219076	adapters		11000 rpm	13350g
2201219077	adapters		11000 rpm	13350g
2201219078	adapters		11000 rpm	13350g
2201219079	adapters		11000 rpm	13350g

2201219080	adapters		11000 rpm	13350g
2201219081	No. 6-5 Fixed-Angle Rotor	24x10 ml	11000 rpm	13350g
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
2201219083	No. 8 Swing-Bucket Rotor Rotor Cross		4500 rpm	3720g
2201219084	250ml Round Buckets	4x250 ml	4500 rpm	3720g
2201219085	adapters	4x100 ml	4500 rpm	3720g
2201219086	adapters	4x50 ml	4500 rpm	3720g
2201219087	adapters	8x50 ml (conical)	4500 rpm	3720g
2201219088	adapters	8x50 ml (round bottom)	4500 rpm	3720g
2201219089	adapters	8x30 ml	4500 rpm	3720g
2201219090	adapters	20x15 ml	4500 rpm	3720g
2201219091	adapters	36x10 ml	4500 rpm	3720g
2201219092	adapters	20x5 ml (conical)	4500 rpm	3720g
2201219093	adapters	32x1.5/2.0 ml	4500 rpm	3720g
2201219094	adapters	32x2.0 ml	4500 rpm	3720g
2201219095	adapters	40x0.5 ml	4500 rpm	3720g
2201219096	adapters	20x10 ml virus sampling tube	4500 rpm	3720g
2201219097	adapters	28x4 -10 ml blood collection / urine tube	4500 rpm	3720g
2201219098	adapters	40x1.6 -7 ml blood collection / urine tube	4500 rpm	3720g
2201219099	Conical Buckets	4x175/225 ml Falcon conical bottle	4500 rpm	3720g
2201219100	Buckets	36x4 -10 ml blood collection / urine tube	4000 rpm	3100g
2201219101	Buckets	48x1.6 -7 ml blood collection / urine tube	4000 rpm	3100g
2201219102	Buckets	64x1.6 -7 ml blood collection / urine tube	4000 rpm	3100g
2201219103	No. 9-1 Swing-Bucket Rotor Rotor Cross		4200 rpm	3550g
18408554104	500ml Round Buckets	4x500 ml	4200 rpm	3550g
18408554105	Aerosol-tight lids for 500ml Round Buckets		4200 rpm	3550g
18408554106	adapters	4x250 ml	4200 rpm	3550g
18408554107	adapters	4x175/225 ml Falcon conical bottle	4200 rpm	3550g
18408554108	adapters	4x100 ml	4200 rpm	3550g
18408554109	adapters	16x50 ml (conical)	4200 rpm	3550g
18408554110	adapters	16x50 ml (round bottom)	4200 rpm	3550g
18408554111	adapters	16x30 ml	4200 rpm	3550g
18408554112	adapters	36x15 ml	4200 rpm	3550g
18408554113	adapters	56x10 ml	4200 rpm	3550g
18408554114	adapters	36x5 ml (conical)	4200 rpm	3550g
18408554115	adapters	80x1.5/2.0 ml	4200 rpm	3550g
18408554116	adapters	60x2.0 ml	4200 rpm	3550g
18408554117	adapters	80x0.5 ml	4200 rpm	3550g
18408554118	adapters	36x10 ml virus sampling tube	4200 rpm	3550g
18408554119	adapters	56x4 -10 ml blood collection / urine tube	4200 rpm	3550g
18408554120	adapters	72x1.6 -7 ml blood collection / urine tube	4200 rpm	3550g
18408554121	Rectangular Buckets		4200 rpm	3550g
18408554122	adapters	20x50 ml (conical)	4200 rpm	3550g
18408554123	adapters	20x50 ml (round bottom)	4200 rpm	3550g

18408554124	adapters	20x30 ml (conical)	4200 rpm	3550g
18408554125	adapters	40x15 ml (conical)	4200 rpm	3550g
18408554126	adapters	40x5 ml (conical)	4200 rpm	3550g
18408554127	adapters	100x1.5/2.0 ml	4200 rpm	3550g
18408554128	adapters	100x2.0 ml	4200 rpm	3550g
18408554129	adapters	80x4 -10 ml blood collection / urine tube	4200 rpm	3550g
18408554130	adapters	80x4-10 ml blood collection / urine tube	4200 rpm	3550g
18408554131	Round Buckets	148x5 ml Radio-immunity tube	4200 rpm	3550g
18408554132	Round Buckets	96x1.6-7 ml blood collection / urine tube	4200 rpm	3550g
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
18408554134	No. 9-2 Swing-Bucket Rotor	4x250 ml Corning conical bottle or 4 x 200 ml Nunc bottle	4200 rpm	3550g
18408554135	No. 10-1 Swing-Bucket Rotor	4x750 ml	4000 rpm	3500g
18408554136	adapters	4x500 ml	4000 rpm	3500g
18408554137	adapters	4x250 ml	4000 rpm	3500g
18408554138	adapters	4x175/225 ml Falcon conical bottle	4000 rpm	3500g
18408554139	adapters	12x100 ml	4000 rpm	3500g
18408554140	adapters	20x50 ml (conical)	4000 rpm	3500g
18408554141	adapters	20x50 ml (round bottom)	4000 rpm	3500g
18408554142	adapters	20x30 ml	4000 rpm	3500g
18408554143	adapters	56x15 ml	4000 rpm	3500g
18408554144	adapters	72x10 ml	4000 rpm	3500g
18408554145	adapters	56x5 ml (conical)	4000 rpm	3500g
18408554146	adapters	88x1.5/2.0 ml	4000 rpm	3500g
18408554147	adapters	88x2.0 ml	4000 rpm	3500g
18408554148	adapters	96x0.5 ml	4000 rpm	3500g
18408554149	adapters	72x4-10 ml blood collection / urine tube	4000 rpm	3500g
18408554150	adapters	96x1.6-7 ml blood collection / urine tube	4000 rpm	3500g
18408554151	adapters	148x5 ml Radio-immunity tube	4000 rpm	3500g
18408554152	adapters	4x30/50 ml Falcon Cell Culture Flasks or 4x30/50 ml Corning Cells Culture Flasks	4000 rpm	3500g
18408554153	adapters	4x40 ml Nunc Cell Culture Flasks	4000 rpm	3500g
18408554154	adapters	4x160 ml Nunc Cell Culture Flasks	4000 rpm	3500g
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
18408554156	No. 10-2 Swing-Bucket Rotor	4x500 ml Corning conical bottle	4000 rpm	3500g
18408554157	No. 11 Fixed-Angle Rotor	12x50 ml (conical)	10000 rpm	14310g
18408554158	adapters		10000 rpm	14310g
18408554159	adapters		10000 rpm	14310g
18408554160	adapters		10000 rpm	14310g
18408554161	adapters		10000 rpm	14310g
18408554162	adapters		10000 rpm	14310g
18408554163	adapters		10000 rpm	14310g
18408554164	adapters		10000 rpm	14310g
18408554165	adapters		10000 rpm	14310g
18408554166	adapters		10000 rpm	14310g

18408554167	adapters		10000 rpm	14310g
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