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TABLETOP REFRIGERATED CENTRIFUGE CEN19-23R

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These centrifuges are widely used in the fields of biochemistry, pharmacy, clinical medicine and other research fields for variety of separation needs. The programmable microprocessor centrifuge allows modification of the parameter during operation. In addition, accommodates various type of tubes or plates and size of the sample.
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, Laborartory Tabletop Centrifuge.

CEN19-23R TABLETOP REFRIGERATED CENTRIFUGE

- Brushless DC motor
- Microprocessor controller
- LCD display
- Inner chamber material: Stainless Steel
- Electronic door interlock
- Automatic rotor identification
- Memory of 12 programs
- 19 levels of acceleration and 19 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
- Operating parameters can be modified during the operation

SPECIFICATIONS

Model	CEN19-23R
Maximum Capacity (No of tubes x Vol.)	6x100 ml , 4x750 ml
Temp. Control Range	-20°C to 40°C
Temperature Accuracy	± 1°C
Maximum Speed	23000 rpm with 12x1.5/2.0 ml , 4500 rpm with 4x250 ml rotor
Speed Accuracy	± 10 rpm
Maximum RCF	36960xg with 12x1.5/2.0 ml , 3720Xg with 4x250 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)
Rotor Identification	Auto-ID Instant, immediately upon rotor insertion

Program Storage	1000 user-defined
Overall Dimension	26.8x23.6x16.5 in / 68x60x42 mm
Noise Level	≤ 56 dB(A)
Weight (Net/Gross)	106 kg
Max. Power Consumption	1500 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)
2201915005	No. 1 Fixed-Angle Rotor	12x1.5/2.0 ml(with adapters for 0.2/0.5ml tube)	23000 rpm	36960g
2201915006	No. 2 Fixed-Angle Rotor	12x5 ml	18000 rpm	26260g
2201915007	No. 3.1 Fixed-Angle Rotor	24x1.5/2.0 ml(with adapters for 0.2/0.5ml tube)	16500 rpm	26360g
2201915008	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	31370g
2201915009	No. 4.1 Fixed-Angle Rotor	12x10 ml	15500 rpm	22100g
2201915010	No. 4.2 Fixed-Angle Rotor	36x1.5/2.0 ml(with adapters for 0.2/0.5ml tube)	15000 rpm	21760g
2201915011	No. 5.1 Fixed-Angle Rotor	6x50 ml (conical)	13000 rpm	18420g
2201915012	adapters		13000 rpm	18420g
2201915013	adapters		13000 rpm	18420g
2201915014	adapters		13000 rpm	18420g
2201915015	adapters		13000 rpm	18420g
2201915016	adapters		13000 rpm	18420g
2201915017	adapters		13000 rpm	18420g
2201915018	adapters		13000 rpm	18420g
2201915019	adapters		13000 rpm	18420g
2201915020	adapters		13000 rpm	18420g
2201915021	adapters		13000 rpm	18420g
2201915022	No. 5.2 Fixed-Angle Rotor	48x1.5/2.0 ml(with adapters for 0.2/0.5ml tube)	13000 rpm	18515g
2201915023	No. 5.3 Fixed-Angle Rotor	6x50 ml (round bottom)	13000 rpm	19865g
2201915024	adapters		13000 rpm	19865g
2201915025	adapters		13000 rpm	19865g
2201915026	adapters		13000 rpm	19865g
2201915027	adapters		13000 rpm	19865g
2201915028	adapters		13000 rpm	19865g
2201915029	adapters		13000 rpm	19865g
2201915030	adapters		13000 rpm	19865g
2201915031	adapters		13000 rpm	19865g
2201915032	adapters		13000 rpm	19865g
2201915033	No. 6.1 Fixed-Angle Rotor	4x100 ml	12000 rpm	15890g
2201915034	adapters		12000 rpm	15890g
2201915035	adapters		12000 rpm	15890g
2201915036	adapters		12000 rpm	15890g
2201915037	adapters		12000 rpm	15890g
2201915038	adapters		12000 rpm	15890g

2201915039	adapters		12000 rpm	15890g
2201915040	adapters		12000 rpm	15890g
2201915041	adapters		12000 rpm	15890g
2201915042	adapters		12000 rpm	15890g
2201915043	adapters		12000 rpm	15890g
2201915044	adapters		12000 rpm	15890g
2201915045	adapters		12000 rpm	15890g
2201915046	No. 6.2 Fixed-Angle Rotor	8x50 ml (conical)	12000 rpm	16695g
2201915047	adapters		12000 rpm	16695g
2201915048	adapters		12000 rpm	16695g
2201915049	adapters		12000 rpm	16695g
2201915050	adapters		12000 rpm	16695g
2201915051	adapters		12000 rpm	16695g
2201915052	adapters		12000 rpm	16695g
2201915053	adapters		12000 rpm	16695g
2201915054	adapters		12000 rpm	16695g
2201915055	adapters		12000 rpm	16695g
2201915056	adapters		12000 rpm	16695g
2201915057	No. 6.3 Fixed-Angle Rotor	12x15 ml	13000 rpm	18650g
2201915058	adapters		13000 rpm	18650g
2201915059	adapters		13000 rpm	18650g
2201915060	adapters		13000 rpm	18650g
2201915061	adapters		13000 rpm	18650g
2201915062	adapters		13000 rpm	18650g
2201915063	adapters		13000 rpm	18650g
2201915064	No. 6.4 Fixed-Angle Rotor	8x50 ml (round bottom)	12000 rpm	15890g
2201915065	adapters		12000 rpm	15890g
2201915066	adapters		12000 rpm	15890g
2201915067	adapters		12000 rpm	15890g
2201915068	adapters		12000 rpm	15890g
2201915069	adapters		12000 rpm	15890g
2201915070	adapters		12000 rpm	15890g
2201915071	adapters		12000 rpm	15890g
2201915072	adapters		12000 rpm	15890g
2201915073	adapters		12000 rpm	15890g
2201915074	No. 6.5 Fixed-Angle Rotor	24x10 ml	11000 rpm	13350g
2201915075	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
2201915076	No. 8 Swing-Bucket Rotor Rotor Cross		4500 rpm	3720g
2201915077	250ml Round Buckets	4x250 ml	4500 rpm	3720g
2201915078	adapters	4x100 ml	4500 rpm	3720g
2201915079	adapters	4x50 ml	4500 rpm	3720g
2201915080	adapters	8x50 ml (conical)	4500 rpm	3720g
2201915081	adapters	8x50 ml (round bottom)	4500 rpm	3720g
2201915082	adapters	8x30 ml	4500 rpm	3720g
2201915083	adapters	20x15 ml	4500 rpm	3720g
2201915084	adapters	36x10 ml	4500 rpm	3720g

2201915085	adapters	20x5 ml (conical)	4500 rpm	3720g
2201915086	adapters	32x1.5/2.0 ml	4500 rpm	3720g
2201915087	adapters	32x2.0 ml	4500 rpm	3720g
2201915088	adapters	40x0.5 ml	4500 rpm	3720g
2201915089	adapters	20x10 ml virus sampling tube	4500 rpm	3720g
2201915090	adapters	28x4-10 ml blood collection / urine tube	4500 rpm	3720g
2201915091	adapters	40x1.6-7 ml blood collection / urine tube	4500 rpm	3720g
2201915092	Conical Buckets	4x175/225 ml Falcon conical bottle	4500 rpm	3720g
2201915093	Buckets	48x1.6-7 ml blood collection / urine tube	4000 rpm	3100g
2201915094	Buckets	64x1.6-7 ml blood collection / urine tube	4000 rpm	3100g
2201915095	No. 9-1 Swing-Bucket Rotor Rotor Cross		4200 rpm	3550g
2201915096	500ml Round Buckets	4x500 ml	4200 rpm	3550g
2201915097	Aerosol-tight lids for 500ml Round Buckets		4200 rpm	3550g
2201915098	adapters	4x250 ml	4200 rpm	3550g
2201915099	adapters	4x175/225 ml Falcon conical bottle	4200 rpm	3550g
2201915100	adapters	4x100 ml	4200 rpm	3550g
2201915101	adapters	16x50 ml (conical)	4200 rpm	3550g
2201915102	adapters	16x50 ml (round bottom)	4200 rpm	3550g
2201915103	adapters	16x30 ml	4200 rpm	3550g
2201915104	adapters	36x15 ml	4200 rpm	3550g
2201915105	adapters	56x10 ml	4200 rpm	3550g
2201915106	adapters	36x5 ml (conical)	4200 rpm	3550g
2201915107	adapters	80x1.5/2.0 ml	4200 rpm	3550g
2201915108	adapters	60x2.0 ml	4200 rpm	3550g
2201915109	adapters	80x0.5 ml	4200 rpm	3550g
2201915110	adapters	36x10 ml virus sampling tube	4200 rpm	3550g
2201915111	adapters	56x4-10 ml blood collection / urine tube	4200 rpm	3550g
2201915112	adapters	72x1.6-7 ml blood collection / urine tube	4200 rpm	3550g
2201915113	Rectangular Buckets		4200 rpm	3550g
2201915114	adapters	20x50 ml (conical)	4200 rpm	3550g
2201915115	adapters	20x50 ml (round bottom)	4200 rpm	3550g
2201915116	adapters	20x30 ml	4200 rpm	3550g
2201915117	adapters	40x15 ml	4200 rpm	3550g
2201915118	adapters	40x5 ml (conical)	4200 rpm	3550g
2201915119	adapters	100x1.5/2.0 ml	4200 rpm	3550g
2201915120	adapters	100x2.0 ml	4200 rpm	3550g
2201915121	adapters	80x4-10 ml blood collection / urine tube	4200 rpm	3550g
2201915122	adapters	112x1.6-7 ml blood collection / urine tube	4200 rpm	3550g
2201915123	Round Buckets	148x5 ml Radio-immunity tube	4200 rpm	3550g
2201915124	Round Buckets	96x1.6-7 ml blood collection / urine tube	4200 rpm	3550g
2201915125	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
2201915126	No. 9-2 Swing-Bucket Rotor	4x250 ml Corning conical bottle or 4x200 ml Nunc bottle	4200 rpm	3550g
2201915127	No. 10-1 Swing-Bucket Rotor	4x750 ml	4000 rpm	3500g
2201915128	adapters	4x500 ml	4000 rpm	3500g

2201915129	adapters	4x250 ml	4000 rpm	3500g
2201915130	adapters	4x175/225 ml Falcon conical bottle	4000 rpm	3500g
2201915131	adapters	12x100 ml	4000 rpm	3500g
2201915132	adapters	20x50 ml (conical)	4000 rpm	3500g
2201915133	adapters	20x50 ml (round bottom)	4000 rpm	3500g
2201915134	adapters	20x30 ml	4000 rpm	3500g
2201915135	adapters	56x15 ml	4000 rpm	3500g
2201915136	adapters	72x10 ml	4000 rpm	3500g
2201915137	adapters	56x5 ml (conical)	4000 rpm	3500g
2201915138	adapters	88x1.5/2.0 ml	4000 rpm	3500g
2201915139	adapters	88x2.0 ml	4000 rpm	3500g
2201915140	adapters	96x0.5 ml	4000 rpm	3500g
2201915141	adapters	76x4-10 ml blood collection / urine tube	4000 rpm	3500g
2201915142	adapters	96x1.6-7 ml blood collection / urine tube	4000 rpm	3500g
2201915143	adapters	148x5 ml Radio-immunity tube	4000 rpm	3500g
2201915144	adapters	4x30/50 ml Falcon Cell Culture Flasks or 4x30/50 ml Corning Cell Culture Flasks	4000 rpm	3500g
2201915145	adapters	4x40 ml Nunc Cell Culture Flasks	4000 rpm	3500g
2201915146	adapters	4x160 ml Nunc Cell Culture Flasks	4000 rpm	3500g
2201915147	adapters	4x200 ml Falcon Cell Culture Flasks or 4x200 ml Greiner Cell Culture Flasks or 4x200 ml Nunc Cell Culture Flasks	4000 rpm	3500g
2201915148	No. 10-2 Swing-Bucket Rotor	4x500 ml Corning conical bottle	4000 rpm	3500g
2201915149	No. 11 Fixed-Angle Rotor	6x100 ml	10000 rpm	12060g
2201915150	adapters		10000 rpm	12060g
2201915151	adapters		10000 rpm	12060g
2201915152	adapters		10000 rpm	12060g
2201915153	adapters		10000 rpm	12060g
2201915154	adapters		10000 rpm	12060g
2201915155	adapters		10000 rpm	12060g
2201915156	adapters		10000 rpm	12060g
2201915157	adapters		10000 rpm	12060g
2201915158	adapters		10000 rpm	12060g
2201915159	adapters		10000 rpm	12060g
2201915160	adapters		10000 rpm	12060g
2201915161	adapters		10000 rpm	12060g
2201915162	No. 12 Fixed-Angle Rotor	8x15 ml	14500 rpm	18570g
2201915163	adapters		14500 rpm	18570g
2201915164	adapters		14500 rpm	18570g
2201915165	adapters		14500 rpm	18570g
2201915166	adapters		14500 rpm	18570g
2201915167	adapters		14500 rpm	18570g
2201915168	adapters		14500 rpm	18570g
2201915169	No. 13 Fixed-Angle Rotor	12x50 ml (conical)	10000 rpm	14310g
2201915170	adapters		10000 rpm	14310g
2201915171	adapters		10000 rpm	14310g
2201915172	adapters		10000 rpm	14310g
2201915173	adapters		10000 rpm	14310g

2201915174	adapters		10000 rpm	14310g
2201915175	adapters		10000 rpm	14310g
2201915176	adapters		10000 rpm	14310g
2201915177	adapters		10000 rpm	14310g
2201915178	adapters		10000 rpm	14310g
2201915179	adapters		10000 rpm	14310g

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