

TABLETOP REFRIGERATED CENTRIFUGE CEN19-19R



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CEN19-19R

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, Laboratory Tabletop Centrifuge.

CEN19-19R TABLETOP REFRIGERATED CENTRIFUGE

LCD display

Microprocessor controller

Inner chamber material: Stainless Steel

Electronic door interlock

Automatic rotor identification

Brushless DC motor

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	CEN19-19R
Maximum Capacity (No of tubes x Vol.)	6x100 ml , 4x500 ml
Temperature Range	-20°C to 40°C
Temperature Accuracy	± 1°C
Maximum Speed	19000 rpm with 12 x 1.5/2.0 ml , 4500 rpm with 4x250 ml rotor
Speed Accuracy	± 10 rpm
Maximum RCF	29990Xg with 24x1.5/2.0 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
Noise Level	≤ 56 dB(A)
Overall Dimension	26.8x23.6x16.5 in / 68x60x42 mm
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)
2201914005	No. 1 Fixed-Angle Rotor	12x1.5/2.0 ml(with adapters for 0.2/0.5ml tube)	19000 rpm	25220g
2201914006	No. 2 Fixed-Angle Rotor	12x5 ml	17000 rpm	23460g
2201914007	No. 3-1 Fixed-Angle Rotor	24x1.5/2.0 ml(with adapters for 0.2/0.5ml tube)	16000 rpm	24790g
2201914008	No. 3-2 Fixed-Angle Rotor	24x1.5/2.0 ml (with adapters for 0.2/0.5ml tube)(rotor with Aerosol-tight lid)	17600 rpm	29990g
2201914009	No. 4-1 Fixed-Angle Rotor	12x10 ml	14000 rpm	18120g
2201914010	No. 4-2 Fixed-Angle Rotor	36x1.5/2.0 ml(with adapters for 0.2/0.5ml tube)	14000 rpm	18960g
2201914011	No. 4-3 Fixed-Angle Rotor	8x15 ml	14000 rpm	17310g
2201914012	adapters		14000 rpm	17310g
2201914013	adapters		14000 rpm	17310g
2201914014	adapters		14000 rpm	17310g
2201914015	adapters		14000 rpm	17310g
2201914016	adapters		14000 rpm	17310g
2201914017	adapters		14000 rpm	17310g
2201914018	No. 5-1 Fixed-Angle Rotor	6x50 ml (conical)	13000 rpm	18420g
2201914019	adapters		13000 rpm	18420g
2201914020	adapters		13000 rpm	18420g
2201914021	adapters		13000 rpm	18420g
2201914022	adapters		13000 rpm	18420g
2201914023	adapters		13000 rpm	18420g
2201914024	adapters		13000 rpm	18420g
2201914025	adapters		13000 rpm	18420g
2201914026	adapters		13000 rpm	18420g
2201914027	adapters		13000 rpm	18420g
2201914028	adapters		13000 rpm	18420g
2201914029	No. 5-2 Fixed-Angle Rotor	48x1.5/2.0 ml(with adapters for 0.2/0.5ml tube)	13000 rpm	18520g
2201914030	No. 5-3 Fixed-Angle Rotor	6x50 ml (round bottom)	13000 rpm	18420g
2201914031	adapters		13000 rpm	18420g
2201914032	adapters		13000 rpm	18420g
2201914033	adapters		13000 rpm	18420g
2201914034	adapters		13000 rpm	18420g
2201914035	adapters		13000 rpm	18420g
2201914036	adapters		13000 rpm	18420g
2201914037	adapters		13000 rpm	18420g

2201914038	adapters		13000 rpm	18420g
2201914039	adapters		13000 rpm	18420g
2201914040	No. 6-1 Fixed-Angle Rotor	6x50 ml (round bottom)	11000 rpm	13350g
2201914041	adapters		11000 rpm	13350g
2201914042	adapters		11000 rpm	13350g
2201914043	adapters		11000 rpm	13350g
2201914044	adapters		11000 rpm	13350g
2201914045	adapters		11000 rpm	13350g
2201914046	adapters		11000 rpm	13350g
2201914047	adapters		11000 rpm	13350g
2201914048	adapters		11000 rpm	13350g
2201914049	adapters		11000 rpm	13350g
2201914050	adapters		11000 rpm	13350g
2201914051	adapters		11000 rpm	13350g
2201914052	adapters		11000 rpm	13350g
2201914053	No. 6-2 Fixed-Angle Rotor	8x50 ml (conical)	11000 rpm	14030g
2201914054	adapters		11000 rpm	14030g
2201914055	adapters		11000 rpm	14030g
2201914056	adapters		11000 rpm	14030g
2201914057	adapters		11000 rpm	14030g
2201914058	adapters		11000 rpm	14030g
2201914059	adapters		11000 rpm	14030g
2201914060	adapters		11000 rpm	14030g
2201914061	adapters		11000 rpm	14030g
2201914062	adapters		11000 rpm	14030g
2201914063	adapters		11000 rpm	14030g
2201914064	No. 6-3 Fixed-Angle Rotor	12x15 ml	12000 rpm	15890g
2201914065	adapters		12000 rpm	15890g
2201914066	adapters		12000 rpm	15890g
2201914067	adapters		12000 rpm	15890g
2201914068	adapters		12000 rpm	15890g
2201914069	adapters		12000 rpm	15890g
2201914070	adapters		12000 rpm	15890g
2201914071	No. 6-4 Fixed-Angle Rotor	8x50 ml (round bottom)	11000 rpm	13350g
2201914072	adapters		11000 rpm	13350g
2201914073	adapters		11000 rpm	13350g
2201914074	adapters		11000 rpm	13350g
2201914075	adapters		11000 rpm	13350g
2201914076	adapters		11000 rpm	13350g
2201914077	adapters		11000 rpm	13350g
2201914078	adapters		11000 rpm	13350g
2201914079	adapters		11000 rpm	13350g
2201914080	adapters		11000 rpm	13350g
2201914081	No. 6-5 Fixed-Angle Rotor	24x10 ml	11000 rpm	13350g
2201914082	No. 7 Fixed-Angle Rotor	6x10 ml	16000 rpm	18980g
2201914083	No. 8 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

2201914084	No. 9 Swing-Bucket Rotor Rotor Cross		4500 rpm	3720g
2201914085	250ml Round Buckets	4x250 ml	4500 rpm	3720g
2201914086	adapters	4x100 ml	4500 rpm	3720g
2201914087	adapters	4x50 ml	4500 rpm	3720g
2201914088	adapters	8x50 ml (conical)	4500 rpm	3720g
2201914089	adapters	8x50 ml (round bottom)	4500 rpm	3720g
2201914090	adapters	8x30 ml	4500 rpm	3720g
2201914091	adapters	20x15 ml	4500 rpm	3720g
2201914092	adapters	36x10 ml	4500 rpm	3720g
2201914093	adapters	20x5 ml (conical)	4500 rpm	3720g
2201914094	adapters	32x1.5/2.0 ml	4500 rpm	3720g
2201914095	adapters	32x2.0 ml	4500 rpm	3720g
2201914096	adapters	40x0.5 ml	4500 rpm	3720g
2201914097	adapters	20x10 ml virus sampling tube	4500 rpm	3720g
2201914098	adapters	28x4-10 ml blood collection / urine tube	4500 rpm	3720g
2201914099	adapters	40x1.6-7 ml blood collection / urine tube	4500 rpm	3720g
2201914100	Conical Buckets	4x175/225 ml Falcon conical bottle	4500 rpm	3720g
2201914101	Buckets	36x4-10 ml blood collection /urine tube	4500 rpm	3100g
2201914102	Buckets	48x1.6-7 ml blood collection / urine tube	4500 rpm	3100g
2201914103	Buckets	64x1.6-7 ml blood collection / urine tube	4500 rpm	3100g
2201914104	No. 10-1 Swing-Bucket Rotor Rotor Cross		4200 rpm	3550g
2201914105	500ml Round Buckets	4x500 ml	4200 rpm	3550g
2201914106	Aerosol-tight lids for 500ml Round Buckets		4200 rpm	3550g
2201914108	adapters	4x250 ml	4200 rpm	3550g
2201914109	adapters	4x175/225 ml Falcon conical bottle	4200 rpm	3550g
2201914110	adapters	4x100 ml	4200 rpm	3550g
2201914111	adapters	16x50 ml (conical)	4200 rpm	3550g
2201914112	adapters	16x50 ml (round bottom)	4200 rpm	3550g
2201914113	adapters	16x30 ml	4200 rpm	3550g
2201914114	adapters	36x15 ml	4200 rpm	3550g
2201914115	adapters	56x10 ml	4200 rpm	3550g
2201914116	adapters	36x5 ml (conical)	4200 rpm	3550g
2201914117	adapters	80x1.5/2.0 ml	4200 rpm	3550g
2201914118	adapters	60x2.0 ml	4200 rpm	3550g
2201914119	adapters	80x0.5 ml	4200 rpm	3550g
2201914120	adapters	36x10 ml virus sampling tube	4200 rpm	3550g
2201914121	adapters	56x4-10 ml blood collection / urine tube	4200 rpm	3550g
2201914122	adapters	72x1.6-7 ml blood collection / urine tube	4200 rpm	3550g
2201914123	Rectangular Buckets		4200 rpm	3550g
2201914124	adapters	20x50 ml (conical)	4200 rpm	3550g
2201914125	adapters	20x50 ml (round bottom)	4200 rpm	3550g
2201914126	adapters	20x30 ml	4200 rpm	3550g
2201914127	adapters	40x15 ml	4200 rpm	3550g
2201914128	adapters	40x5 ml (conical)	4200 rpm	3550g
2201914129	adapters	100x1.5/2.0 ml	4200 rpm	3550g
2201914130	adapters	100x2.0 ml	4200 rpm	3550g

2201914131	adapters	80x4-10 ml blood collection / urine tube	4200 rpm	3550g
2201914132	adapters	112x1.6-7 ml blood collection / urine tube	4200 rpm	3550g
2201914133	Round Buckets	148x5 ml Radio-immunity tube	4200 rpm	3550g
2201914134	Round Buckets	96x1.6-7 ml blood collection / urine tube	4200 rpm	3550g
2201914135	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
2201914136	No. 10-2 Swing-Bucket Rotor	4x250 ml Corning conical bottle or 4x200 ml Nunc bottle	4200 rpm	3550g
2201914137	No. 11 Fixed-Angle Rotor	6x100 ml	10000 rpm	12060g
2201914138	adapters		10000 rpm	12060g
2201914139	adapters		10000 rpm	12060g
2201914140	adapters		10000 rpm	12060g
2201914141	adapters		10000 rpm	12060g
2201914142	adapters		10000 rpm	12060g
2201914143	adapters		10000 rpm	12060g
2201914144	adapters		10000 rpm	12060g
2201914145	adapters		10000 rpm	12060g
2201914146	adapters		10000 rpm	12060g
2201914147	adapters		10000 rpm	12060g
2201914148	adapters		10000 rpm	12060g
2201914149	adapters		10000 rpm	12060g



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