

# FLOOR TYPE REFRIGERATED CENTRIFUGE CEN23-16R



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## CEN23-16R

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.

## CEN23-16R 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 guardring, 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

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