

# TABLETOP REFRIGERATED CENTRIFUGE CEN19-23R



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## CEN19-23R

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.

## CEN19-23R 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.)	4x750 ml
Temperature Range	-20°C to 40°C
Temperature Accuracy	± 1°C
Maximum Speed RPM	23000
Speed Accuracy	± 10 rpm
Maximum RCF	36400xg
Timer Range	1~99 h 59 min, pulse
Temperature Increment	1°C
Acceleration Rate	40
Deceleration Rate	40
Drive System	Direct, induction motor drive
Rotor Identification	Auto-ID Instant, Automatic
Overall Dimension	750x600x420 mm
Program	12 user-defined
Noise Level	≤ 60 dB(A)

Weight (Net/Gross)	90 kg
Power	1500 W
Power Supply	AC 200-240V, 50/60Hz or AC 100-130V, 50/60Hz

## OPTIONAL ACCESSORIES

Accessory Code	Name	Description	RPM	RCF <sub>xg</sub>	Capacity
LS52243	Swing-out Rotor	16x10 ml syringe	4000	3000xg	
LS52269	Fixed-Angle Rotor	With adapters for 0.2/0.5 ml tube	12000	15970xg	48x1.5/2.0 ml
LS52464	Swing-out Bucket Rotor	Falcon conical bottle	4500	3720xg	4x175/225 ml Falcon conical bottle
LS52542	Swing-out Bucket Rotor	4x3 96 well microplates or 4x2 cell culture plates or 4x1 deep well plates	4000	3400xg	
LS52580	Fixed-Angle Rotor	With adapters for 0.2/0.5 ml tube	23000	36400xg	12x1.5/2.0 ml
LS52711	Fixed-Angle Rotor	Conical	13000	18740xg	6x50 ml
LS52724	Swing-out Rotor	4x20 ml syringe	4000	3100xg	
LS52892	Fixed-Angle Rotor	12x5 ml	17000	22330xg	
LS52893	Swing-out Rotor	8x20 ml syringe	4000	3100xg	
LS52906	Fixed-Angle Rotor	4x100 ml	11000	12870xg	
LS53028	Swing-out Bucket Rotor	Radio-immunity tube	4000	3400xg	148x5 ml
LS53040	Swing-out Bucket Rotor	Blood collection tube	4000	3400xg	96x2-7ml
LS53208	Fixed-Angle Rotor	Conical	11000	12870xg	8x50 ml
LS53220	Swing-out Rotor	4x50 ml PRP kits/syringe	4000	3380xg	
LS53232	Fixed-Angle Rotor	6x50 ml syringe	4500	3020xg	
LS53364	Swing-out Rotor – Adapter	16x50 ml	4000	3400xg	
LS53376	Swing-out Rotor – Adapter	40x15 ml	4000	3400xg	
LS53388	Swing-out Rotor – Adapter	100x1.5/2.0 ml	4000	3400xg	
LS53400	Swing-out Rotor – Adapter	Blood collection tube	4000	3400xg	80x8/10 ml
LS53412	Swing-out Rotor – Adapter	Blood collection tube	4000	3400xg	112x2-7 ml
LS53688	Swing-out Rotor	4x500 ml	4000	3400xg	
LS53952	Fixed-Angle Rotor	With adapters for 0.2/0.5 ml tube	15000	20160xg	36x1.5/2.0 ml
LS53964	Swing-out Bucket Rotor	Corning conical bottle			4x500 ml
LS54059	Swing-out Rotor	2x3 96 microplates or 2x2 cell culture plates or 2x1 deep well plates	4000	1970xg	
LS54264	Swing-out Bucket Rotor	4x250 ml Corning conical bottle or 4x200 ml Nunc™ bottle or 4x175 ml Nalgene™ conical bottle	4500	3720xg	
LS54276	Swing-out Bucket Rotor	Blood collection tube	4500	3720xg	28x2-7 ml
LS54288	Swing-out Bucket Rotor	Blood collection tube	4500	3720xg	36x8/10 ml
LS54300	Swing-out Bucket Rotor	Blood collection tube	4500	3720xg	48x2-7 ml
LS54312	Swing-out Bucket Rotor	Blood collection tube	4500	3720xg	64x2-7 ml
LS54324	Swing-out Rotor – Adapter	4x100 ml	4000	3400xg	
LS54336	Swing-out Rotor – Adapter	Blood collection tube	4000	3400xg	56x8/10 ml
LS54348	Swing-out Rotor – Adapter	Falcon conical bottle	4000	3400xg	4x175/225 ml
LS54360	Swing-out Rotor – Adapter	4x250 ml Corning conical bottle or 4x200 ml Nunc™ bottle or 4x175 ml Nalgene™ conical bottle	4000	3400xg	
LS54443	Fixed-Angle Rotor	Round Bottom	10000	10640xg	8x50 ml
LS54455	Fixed-Angle Rotor	with adapters for 0.2/0.5ml tube	16500	27140xg	24x1.5/2.0 ml

LS54467	Swing-out Rotor	4x250 ml	4500	3720xg	
LS54719	Fixed-Angle Rotor		10000	10640xg	12x15 ml
LS54731	Swing-out Rotor – Adapter	Blood collection tube	4500	3720xg	28x8/10 ml blood collection tube
LS54792	Fixed-Angle Rotor	Round Bottom	13000	18740xg	6x50 ml
LS54804	Fixed-Angle Rotor	With adapters for 0.2/0.5 ml tube	13000	18740xg	48x1.5/2.0 ml
LS54816	Fixed-Angle Rotor	Round Bottom	11000	12870xg	8x50 ml
LS54828	Fixed-Angle Rotor		11000	12870xg	12x15 ml
LS54839	Fixed-Angle Rotor		15000	20160xg	12x10 ml
LS54840	Swing-out Rotor – Adapter				32x1.5/2.0 ml
LS54852	Swing-out Rotor – Adapter				4x50 ml
LS54864	Swing-out Rotor – Adapter				8x50 ml
LS54876	Swing-out Rotor – Adapter				4x100 ml
LS54888	Swing-out Rotor – Adapter				36x10 ml
LS54900	Swing-out Rotor – Adapter				20x15 ml
LS54935	Swing-out Rotor		4000	2980xg	24x10 ml
LS54947	Swing-out Rotor		4000	2980xg	32x10 ml
LS54959	Swing-out Rotor – Adapter		5000	5200xg	20x15 ml
LS54971	Swing-out Rotor – Adapter	Blood collection tube	5000	5200xg	28x8/10 ml
LS54983	Swing-out Rotor	can spin 2-10 ml blood collection tube by use adapters	5000	5200xg	32x15 ml
LS54995	Swing-out Bucket Rotor	Blood collection tube	4000	3100xg	28x2-7 ml
LS55007	Swing-out Bucket Rotor	Blood collection tube	4000	3100xg	36x8/10 ml
LS55019	Fixed-Angle Rotor	With adapters for 0.2/0.5 ml tube	14000	18110xg	36x1.5/2.0 ml
LS55043	Fixed-Angle Rotor	Conical	12000	15970xg	6x50 ml

# Centrifugen

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

Email: [info@centrifugen.com](mailto:info@centrifugen.com) | Website: [centrifugen.com](http://centrifugen.com)