

FLOOR TYPE CENTRIFUGE



FLOOR TYPE CENTRIFUGE

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.

CEN23 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	CEN23-18R	CEN23-22R
Maximum Capacity (No of tubes x Vol.)	4x250 ml	4x750 ml
Temperature Range	-20°C to 40°C	
Temperature Accuracy	± 1°C	
Maximum Speed RPM	18000	22000
Speed Accuracy	± 10 rpm	
Maximum RCF	22500xg	34700xg
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	650x550x840 mm	
Program	12 user-defined	
Noise Level	≤ 60 dB(A)	

Weight (Net/Gross)	155 kg
Power	1800 W
Power Supply	AC 200-240V, 50/60Hz or AC 100-130V, 50/60Hz

OPTIONAL ACCESSORIES

Accessory Code	Name	Description	RPM	RCF _{xg}	Capacity	For Models
LS52100	Rotor	24x1.5/2.0 ml				CEN23-18R
LS52113	Swing-out Rotor	2x3 microplates (96 wells) or 2x2 cell culture plates or 2x1 deep well plates	4000	1970xg		CEN23-18R
LS52477	Fixed-Angle Rotor	8x15 ml	12500	15580xg		CEN23-18R
LS52490	Swing-out Rotor	24x10ml	4000	2980xg		CEN23-18R
LS52502	Fixed-Angle Rotor	With adapters for 0.2/0.5 ml tube	18000	22500xg	12x1.5/2.0 ml	CEN23-18R
LS52593	Swing-out Rotor – Adapter	Falcon conical bottle	4000	3500xg	4x175/225 ml	CEN23-18R
LS52594	Fixed-Angle Rotor	Conical	12000	15970xg	6x50 ml	CEN23-18R
LS52607	Adapter	24x0.5 ml				CEN23-18R
LS52710	Swing-out Rotor	4x250 ml	4500	3720xg		CEN23-18R
LS52736	Swing-out Rotor – Adapter	4x250 ml Corning conical bottle or 4x200 ml Nunc™ bottle or 4x175 ml Nalgene™ conical bottle	4000	3500xg		CEN23-18R
LS52749	Swing-out Rotor – Adapter	4xCorning T-75 cm ² Canted-Neck Cell Culture Flasks	4000	3500xg		CEN23-18R
LS52763	Adapter	24x0.2 ml				CEN23-18R
LS52776	Fixed-Angle Rotor	4x100 ml	10000	10640xg		CEN23-18R
LS52788	Fixed-Angle Rotor	12x5 ml	16000	20790xg		CEN23-18R
LS52905	Swing-out Rotor	32x10ml	4000	2980xg		CEN23-18R
LS52918	Swing-out Rotor – Adapter	20x15 ml	5000	5200xg		CEN23-18R
LS52931	Swing-out Rotor – Adapter	Blood collection tube	5000	5200xg	28x8/10 ml	CEN23-18R
LS52943	Swing-out Rotor – Adapter	can spin 2-10 ml blood collection tube by using adapters	5000	5200xg	32x15 ml	CEN23-18R
LS52955	Swing-out Rotor	Blood collection tube	4000	3100xg	28x2-7 ml	CEN23-18R
LS52967	Swing-out Rotor	Blood collection tube	4000	3100xg	36x8/10 ml	CEN23-18R
LS52979	Swing-out Rotor – Adapter	Blood collection tube	4000	3400xg	56x8/10 ml	CEN23-18R
LS52991	Swing-out Rotor – Adapter	Falcon conical bottle	4000	3400xg	4x175/225 ml	CEN23-18R
LS53064	Fixed-Angle Rotor	Conical	10000	10640xg	8x50 ml	CEN23-18R
LS53076	Rotor	24x1.5/2.0 ml				CEN23-18R
LS53088	Microplate Rotor	384-well / 96-well / Small capacity microliter plates / PCR microliter plates with or without skirt			384-well Microplate Rotor	CEN23-18R
LS53099	Swing-out Rotor – Adapter	4x250 ml Corning conical bottle or 4x200 ml Nunc™ bottle or 4x175 ml Nalgene™ conical bottle	4000	3400xg		CEN23-18R
LS54071	Swing-out Rotor – Adapter	48x15 ml	4000	3500xg		CEN23-18R
LS54215	Swing-out Rotor – Adapter	8xCorning T-25 cm ² Canted-Neck Cell Culture Flasks	4000	3500xg		CEN23-18R

LS54239	Fixed-Angle Rotor	With adapters for 0.2/0.5 ml tube	15000	21800xg	24x1.5/2.0 ml	CEN23-18R
LS54251	Fixed-Angle Rotor	6x10 ml	16000	19070xg		CEN23-18R
LS54755	Fixed-Angle Rotor		14000	18110xg	12x10 ml	CEN23-18R
LS52126	Fixed-Angle Rotor	With adapters for 0.2/0.5 ml tube	15000	20160xg	36x1.5/2.0 ml	CEN23-22R
LS52282	Fixed-Angle Rotor	With adapters for 0.2/0.5 ml tube	14000	18110xg	36x1.5/2.0 ml	CEN23-22R
LS52295	Fixed-Angle Rotor	Round Bottom	12000	15970xg	6x50 ml	CEN23-22R
LS52308	Fixed-Angle Rotor	With adapters for 0.2/0.5 ml tube	12000	15970xg	48x1.5/2.0 ml	CEN23-22R
LS52321	Fixed-Angle Rotor	Round Bottom	10000	10640xg	8x50 ml	CEN23-22R
LS52334	Fixed-Angle Rotor	12x15 ml	10000	10640xg		CEN23-22R
LS52347	Fixed-Angle Rotor	6x30 ml	12500	15580xg		CEN23-22R
LS52360	Swing-out Rotor – Adapter	32x1.5/2.0 ml	4500	3720xg		CEN23-22R
LS52373	Swing-out Rotor – Adapter	4x50 ml	4500	3720xg		CEN23-22R
LS52386	Swing-out Rotor – Adapter	8x50 ml	4500	3720xg		CEN23-22R
LS52515	Fixed-Angle Rotor	With adapters for 0.2/0.5 ml tube	22000	34700xg	12x1.5/2.0 ml	CEN23-22R
LS52606	Swing-out Rotor – Adapter	4x250 ml Corning conical bottle or 4x200 ml Nunc™ bottle or 4x175 ml Nalgene™ conical bottle	4000	3500xg		CEN23-22R
LS52620	Fixed-Angle Rotor	Conical	13000	18740xg	6x50 ml	CEN23-22R
LS52633	Fixed-Angle Rotor	Round Bottom	13000	18740xg	6x50 ml	CEN23-22R
LS52723	Swing-out Rotor – Adapter	Corning conical bottle	4000	3500xg	4x500 ml	CEN23-22R
LS52762	Swing-out Rotor – Adapter	4xCorning T-75 cm ² Canted-Neck Cell Culture Flasks	4000	3500xg		CEN23-22R
LS52775	Swing-out Rotor – Adapter	8xCorning T-25 cm ² Canted-Neck Cell Culture Flasks	4000	3500xg		CEN23-22R
LS52789	Fixed-Angle Rotor	With adapters for 0.2/0.5 ml tube	13000	18740xg	48x1.5/2.0 ml	CEN23-22R
LS52801	Fixed-Angle Rotor	12x5 ml	17000	22330xg		CEN23-22R
LS52802	Fixed-Angle Rotor	4x100 ml	11000	12870xg		CEN23-22R
LS53003	Swing-out Bucket Rotor	Blood collection tube	4000	3580xg	96x8/10 ml	CEN23-22R
LS53015	Swing-out Rotor	Blood collection tube	4000	3580xg	120x2-7 ml	CEN23-22R
LS53027	Swing-out Rotor – Adapter	4x500 ml	4000	3500xg		CEN23-22R
LS53039	Swing-out Rotor – Adapter	12x100 ml	4000	3500xg		CEN23-22R
LS53051	Swing-out Rotor – Adapter	20x50 ml	4000	3500xg		CEN23-22R
LS53063	Swing-out Rotor – Adapter	48x15 ml	4000	3500xg		CEN23-22R
LS53075	Swing-out Rotor – Adapter	108x1.5/2.0 ml	4000	3500xg		CEN23-22R
LS53087	Swing-out Rotor – Adapter	Blood collection tube	4000	3500xg	96x2-7ml	CEN23-22R
LS53100	Fixed-Angle Rotor	Conical	11000	12870xg	8x50 ml	CEN23-22R
LS53111	Swing-out Rotor – Adapter	Radioimmunity tube	4000	3500xg	148x5 ml	CEN23-22R
LS53112	Fixed-Angle Rotor	Round Bottom	11000	12870xg	8x50 ml	CEN23-22R
LS53124	Fixed-Angle Rotor	12x15 ml	11000	12870xg		CEN23-22R
LS53304	Swing-out Rotor – Adapter	4x100 ml	4500	3720xg		CEN23-22R
LS53316	Swing-out Rotor – Adapter	36x10 ml	4500	3720xg		CEN23-22R
LS53328	Swing-out Rotor – Adapter	20x15 ml	4500	3720xg		CEN23-22R
LS53340	Swing-out Rotor – Adapter	Blood collection tube	4500	3720xg	28x8/10 ml	CEN23-22R

LS53352	Swing-out Rotor – Adapter	Blood collection tube	4500	3720xg	40x2-7 ml	CEN23-22R
LS53880	Swing-out Rotor – Adapter	Blood collection tube	4500	3720xg	36x8/10 ml	CEN23-22R
LS53892	Swing-out Rotor – Adapter	Blood collection tube	4500	3720xg	40x2-7 ml	CEN23-22R
LS54035	Swing-out Bucket Rotor	2x3 96 well microplates or 2x2 cell culture plates or 2x1 deep well plates	4000	1970xg		CEN23-22R
LS54083	Swing-out Rotor – Adapter	Falcon conical bottle	4000	3500xg	4x175/225 ml	CEN23-22R
LS54227	Swing-out Rotor	Corning conical bottle	4000	1970xg	4x500 ml	CEN23-22R
LS54263	Fixed-Angle Rotor	With adapters for 0.2/0.5 ml tube	16500	27140xg	24x1.5/2.0 ml	CEN23-22R
LS54275	Swing-out Rotor – Adapter	Blood collection tube	4500	3720xg	28x2-7 ml	CEN23-22R
LS54540	Swing-out Rotor – Adapter	Blood collection tube	4500	3720xg	48x2-7 ml	CEN23-22R
LS54552	Swing-out Rotor – Adapter	Blood collection tube	4500	3720xg	64x2-7 ml	CEN23-22R
LS54564	Swing-out Rotor – Adapter	4x250 ml	4500	3720xg		CEN23-22R
LS54576	Swing-out Rotor – Adapter	32x1.5/2.0 ml	4500	3720xg		CEN23-22R
LS54588	Swing-out Rotor – Adapter	4x50 ml	4500	3720xg		CEN23-22R
LS54600	Swing-out Rotor – Adapter	8x50 ml	4500	3720xg		CEN23-22R
LS54612	Swing-out Rotor – Adapter	4x100 ml	4500	3720xg		CEN23-22R
LS54624	Swing-out Rotor – Adapter	36x10 ml	4500	3720xg		CEN23-22R
LS54636	Swing-out Rotor – Adapter	20x15 ml	4500	3720xg		CEN23-22R
LS54648	Swing-out Rotor – Adapter	Blood collection tube	4500	3720xg	28x8/10 ml	CEN23-22R
LS54767	Fixed-Angle Rotor		15000	20160xg	12x10 ml	CEN23-22R
LS54779	Swing-out Rotor		4000	1970xg	2x3 96 well microplates or 2x2 cell culture plates or 2x1 deep well plates	CEN23-22R
LS54791	Swing-out Rotor – Adapter	Falcon conical bottle	4500	3720xg	4x175/225 ml	CEN23-22R
LS54803	Swing-out Rotor – Adapter		4500	3720xg	4x250 ml Corning conical bottle or 4x200 ml Nunc™ bottle or 4x175 ml Nalgene™ conical bottle	CEN23-22R



CEN23-18R



CEN23-22R

CEN23-25R 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



SPECIFICATIONS

Model	CEN23-25R
Maximum Capacity (No of tubes x Vol.)	4x1000 ml
Temperature Range	-20°C to 40°C
Temperature Accuracy	± 1°C
Maximum Speed RPM	25000
Speed Accuracy	± 10 rpm
Maximum RCF	64800xg
Timer Range	1~99 h 59 min, pulse
Temperature Increment	1°C
Acceleration Rate	40
Deceleration Rate	40
Drive System	Direct, high-performance induction motor drive
Rotor Locking System	Auto-Lock
Rotor Identification	Auto-ID Instant, Automatic
Overall Dimension	730x850x930 mm
Program	12 user-defined
Noise Level	≤ 65 dB(A)
Weight (Net/Gross)	280 kg
Power	5000 W
Power Supply	AC 200-240V, 50/60Hz or AC 100-130V, 50/60Hz

OPTIONAL ACCESSORIES

Accessory Code	Name	Description	RPM	RCF _{xg}	Capacity
LS52205	Fixed-Angle Rotor	16x10 ml	23000	56880xg	
LS52257	Swing-out Rotor	4x750 ml	5000	5600xg	
LS52335	Swing-out Rotor – Adapter	4x500 ml	5000	5600xg	

LS52348	Swing-out Rotor – Adapter	Falcon conical bottle	4500	3720xg	4x175/225 ml
LS52361	Swing-out Rotor – Adapter	4x250 ml Corning conical bottle or 4x200 ml Nunc™ bottle or 4x175 ml Nalgene™ conical bottle	4500	3720xg	
LS52374	Swing-out Rotor – Adapter	Blood collection tube	4500	3720xg	28x2-7 ml
LS52387	Swing-out Rotor – Adapter	Blood collection tube	4500	3720xg	36x8/10 ml
LS52400	Swing-out Rotor – Adapter	Blood collection tube	4500	3720xg	48x2-7 ml
LS52413	Swing-out Rotor – Adapter	Blood collection tube	4500	3720xg	64x2-7 ml
LS52426	Swing-out Rotor – Adapter	4x500 ml	4000	3400xg	
LS52439	Swing-out Rotor – Adapter	60x1.5/2.0 ml	4000	3400xg	
LS52452	Swing-out Rotor – Adapter	4x250 ml	4000	3400xg	
LS52465	Swing-out Rotor – Adapter	4x100 ml	4000	3400xg	
LS52478	Fixed-Angle Rotor	8x50 ml	21000	52360xg	
LS52595	Fixed-Angle Rotor	6x250 ml	12000	24110xg	
LS52634	Fixed-Angle Rotor	12x50 ml	14000	30070xg	
LS52673	Swing-out Rotor – Adapter	12x50 ml	4000	3400xg	
LS52699	Fixed-Angle Rotor	6x500 ml	10000	18590xg	
LS52712	Fixed-Angle Rotor	4x1000 ml	8000	12040xg	
LS52815	Swing-out Rotor – Adapter	36x15 ml	4000	3400xg	
LS54660	Fixed-Angle Rotor	24x1.5/2.0 ml	25000	64800xg	

CEN21-04 FLOOR TYPE CENTRIFUGE

LCD display

The inner chamber is made up of stainless steel

Brushless DC motor

Electronic door interlock

Imbalance protection

Memory of 12 programs

19 levels of acceleration and 19 levels of deceleration

Faults are diagnosed automatically



SPECIFICATIONS

Model	CEN21-04
Maximum Capacity (No of tubes x Vol.)	4x1000 ml
Maximum Speed RPM	4000
Speed Accuracy	± 10 rpm
Maximum RCF	3580xg
Timer Range	1~99 h 59 min, pulse
Acceleration Rate	40
Deceleration Rate	40
Drive System	Direct, flex-spin drive system
Imbalance Detector	50 g tolerance
Motor	High-performance induction motor
Overall Dimension	600x700x900 mm

Program	12 user-defined, more available if needed
Noise Level	≤ 60 dB(A)
Weight (Net/Gross)	150 kg
Power	1100 W
Power Supply	AC 200-240V, 50/60Hz or AC 100-130V, 50/60Hz

OPTIONAL ACCESSORIES

Accessory Code	Name	Description	RPM	RCF _{xg}	Capacity
LS52179	Swing-out Rotor	4x1000 ml	3600	3280xg	
LS52568	Swing-out Rotor	6x250 ml	4000	3580xg	
LS53424	Swing-out Rotor	4x500 ml	4000	3400xg	
LS55104	Swing-out Rotor		3600	3030xg	6x500 ml

CEN22-05 FLOOR TYPE CENTRIFUGE

LCD display

The inner chamber is made up of stainless steel

Electronic door interlock

Memory of 12 programs

19 levels of acceleration and 19 levels of deceleration

Automatic Blood Collection Tube Decapping at the end of the process, prevent user from being infected by pathogenic bacteria.

It can spin different capacities blood collection tubes from 2 to 7ml

The machine adopts high torque Motor de frecuencia variable, with precise speed-control



SPECIFICATIONS

Model	CEN22-05
Maximum Capacity (No of tubes x Vol.)	4x250 ml
Maximum Speed RPM	5000
Speed Accuracy	± 10 rpm
Maximum RCF	5200xg
Timer Range	1~99 h 59 min, pulse
Acceleration Rate	40
Deceleration Rate	40
Drive System	Direct, induction motor drive
Overall Dimension	650x550x840 mm
Program	12 user-defined
Noise Level	≤ 60 dB(A)
Weight (Net/Gross)	130 kg
Power	1100 W
Power Supply	AC 200-240V, 50/60Hz or AC 100-130V, 50/60Hz

ACCESSORIES

Accessory Code	Name	Description	RPM	RCF _{xg}
LS52737	Swing-out Rotor	4x250 ml	5000	5200 _{xg}

OPTIONAL ACCESSORIES

Accessory Code	Name	Description	Capacity	RPM	RCF _{xg}
LS52543	Swing-out Rotor	Blood collection tube	80x2-7 ml	4000	3400 _{xg}
LS52608	Swing-out Rotor	Blood collection tube	120x2-7 ml	4000	3580 _{xg}
LS52647	Swing-out Rotor	Blood collection tube	140x2-7 ml	4000	3580 _{xg}

CEN22-06 FLOOR TYPE CENTRIFUGE

LCD display

The inner chamber is made up of stainless steel

Electronic door interlock

Imbalance protection

Brushless DC motor

Operating parameters can be modified during the operation

Memory of 12 programs

19 levels of acceleration and 19 levels of deceleration



SPECIFICATIONS

Model	CEN22-06
Maximum Capacity (No of tubes x Vol.)	4x800 ml
Maximum Speed RPM	6000
Speed Accuracy	± 10 rpm
Maximum RCF	5200 _{xg}
Timer Range	1~99 h 59 min, pulse
Acceleration Rate	40
Deceleration Rate	40
Drive System	Direct, induction motor drive
Overall Dimension	650x550x840 mm
Program	12 user-defined, more available if needed
Noise Level	≤ 60 dB(A)
Weight (Net/Gross)	130 kg
Power	1100 W
Power Supply	AC 200-240V, 50/60Hz or AC 100-130V, 50/60Hz

OPTIONAL ACCESSORIES

Accessory Code	Name	Description	Capacity	RPM	RCF _{xg}
LS52010	Swing-out Bucket Rotor	Radio-immunity tube	148x5 ml	4000	3400xg
LS52087	Swing-out Rotor	2x3x96 well microplate or 2x2 cell culture plates or 2x1 deep well plates		4000	1970xg
LS52399	Swing-out Rotor	Blood collection tube	64x2-7 ml	4000	3100xg
LS52919	Swing-out Rotor	With windshield	4x250 ml	5000	5200xg
LS52932	Adapter	0.2ml tube			
LS53135	Swing-out Rotor	4x100ml		5000	4650xg
LS53147	Swing-out Rotor	4x50ml		5000	4650xg
LS53159	Swing-out Rotor	8x50ml		4000	2980xg
LS53171	Swing-out Rotor	8x100ml		4000	2980xg
LS53183	Rotor	8x1.5/2.0ml, 8x0.2ml, 2 strips		4000	
LS53195	Swing-out Rotor	can spin 2-10 ml blood collection tube by using adapters	24x15ml	4000	2980xg
LS53207	Fixed-Angle Rotor	8x1.5/2.0ml			
LS53219	Swing-out Rotor	can spin 2-10 ml blood collection tube by using adapters	32x15ml	4000	2980xg
LS53244	Swing-out Bucket Rotor	16x50 ml		4000	3400xg
LS53256	Swing-out Bucket Rotor	40x15 ml		4000	3400xg
LS53268	Swing-out Bucket Rotor	100x1.5/2.0ml		4000	3400xg
LS53280	Swing-out Bucket Rotor	Blood collection tube	80x8/10 ml	4000	3400xg
LS53292	Swing-out Bucket Rotor	Blood collection tube	112x2-7 ml	4000	3400xg
LS53436	Swing-out Rotor	Round cup	4x500 ml	4000	3400xg
LS53856	Swing-out Rotor	Can spin 4x450 ml single, double, triple blood bag system without filter	4x750 ml	4000	3500xg
LS54131	Swing-out Rotor – Adapter	4x250 ml		4000	3400xg
LS54143	Swing-out Rotor – Adapter	12x50 ml		4000	3400xg
LS54155	Swing-out Rotor – Adapter	36x15 ml		4000	3400xg
LS54167	Rotor	12x5ml			
LS54179	Swing-out Rotor – Adapter	Blood collection tube	72x2-7 ml	4000	3400xg
LS54191	Adapter	0.5-0.6ml tube			
LS54203	Adapter	0.2ml tube			
LS54383	Rotor	24x1.5/2.0ml			
LS54408	Swing-out Rotor – Adapter	4x500 ml		4000	3500xg
LS54599	PCR strip Rotor	4-8x0.2ml			
LS54611	Swing-out Rotor	Blood collection tube	48x2-7 ml	4000	3100xg
LS54924	Swing-out Rotor		4x3x96 well microplate or 4x2 cell culture plates or 4x1 deep well plates	4000	3400xg
LS55055	Swing-out Rotor – Adapter		4x50ml	5000	5200xg
LS55067	Swing-out Rotor – Adapter	Round Bottom	8x50ml	5000	5200xg
LS55079	Swing-out Rotor – Adapter		4x100ml	5000	5200xg
LS55091	Swing-out Rotor – Adapter		36x10ml	5000	5200xg
LS55103	Strip Rotor		4-8x0.2ml		
LS55115	Adapter		0.5-0.6ml tube		
LS55127	Swing-out Rotor – Adapter	Blood collection tube	40x2-7 ml	5000	5200xg

LS55140	Swing-out Bucket Rotor	Blood collection tube	96x2-7 ml	4000	3400xg
LS52192	Swing-out Rotor	Rectangular Buckets	4x800 ml	4000	3580xg
LS52322	Swing-out Rotor	can spin 2-10 ml blood collection tube by using adapters	12x15 ml	6000	5120xg
LS52491	Swing-out Bucket Rotor	Blood collection tube	140x5/7 ml	4000	3580xg
LS52504	Swing-out Bucket Rotor	28x50 ml		4000	3580xg
LS52517	Swing-out Bucket Rotor	56x15 ml		4000	3580xg
LS52530	Adapter	0.2 ml PCR tube			
LS52581	Swing-out Rotor	6x250 ml		4000	3580xg
LS53700	Swing-out Rotor – Adapter	6x100 ml		4000	3580xg
LS53712	Swing-out Rotor – Adapter	12x50 ml		4000	3580xg
LS53724	Swing-out Rotor – Adapter	6x50 ml		4000	3580xg
LS53736	Swing-out Rotor – Adapter	24x15 ml		4000	3580xg
LS53748	Swing-out Rotor – Adapter	42x10 ml		4000	3580xg
LS53760	Swing-out Rotor – Adapter	Blood collection tube	60x2-7 ml	4000	3580xg
LS53868	Rotor	12x1.5/2.0 ml			
LS54420	Swing-out Rotor – Adapter	12x100 ml		4000	3500xg
LS54432	Swing-out Rotor – Adapter	20x50 ml		4000	3500xg
LS54444	Aluminum alloy rotor kit	Rotor kit with lid, fixing clips and O'ring	18x5 ml	15000	
LS54456	Swing-out Rotor – Adapter	Blood collection tube	96x2-7ml	4000	3500xg
LS54468	Swing-out Rotor – Adapter	Radio-immunity tube	148x5 ml	4000	3500xg
LS54480	Aluminum alloy rotor kit	Rotor kit with lid, fixing clips and O'ring	12x5 ml (ependrof tube)	15000	
LS54492	Aluminum alloy rotor kit	Rotor kit with lid, fixing clips and O'ring	24x2 ml / 1.5 ml	15000	
LS54504	Aluminum alloy rotor kit	Rotor kit with lid, fixing clips and O'ring	36x0.5 ml	15000	
LS54516	Aluminum alloy rotor kit	Rotor kit with lid, fixing clips and O'ring	4xPCR 8	15000	

CEN23-05R FLOOR TYPE REFRIGERATED CENTRIFUGE

Automatic Blood Collection Tube Decapping at the end of the process, prevent user from being infected by pathogenic bacteria.

It can spin different capacities blood collection tubes from 2 to 7ml

Real-time rotation speed and time are displayed over time on LCD display

Brushless DC motor

Inner chamber material: Stainless Steel

Electronic door interlock

Memory of 12 programs

19 levels of acceleration and 19 levels of deceleration

CFC-free refrigerants system (TECUMSEH EUROPE COMPRESSOR)

Precise temperature control with double loop control design is highly efficient, allows fast heating and cooling



SPECIFICATIONS

Model	CEN23-05R
Maximum Capacity (No of tubes x Vol.)	4x250 ml
Temperature Range	-20°C to 40°C
Temperature Accuracy	± 1°C

Maximum Speed RPM	5000
Speed Accuracy	± 10 rpm
Maximum RCF	5200xg
Timer Range	1~99 h 59 min, pulse
Temperature Increment	1°C
Acceleration Rate	40
Deceleration Rate	40
Drive System	Direct, induction motor drive
Overall Dimension	650x550x840 mm
Program	12 user-defined
Noise Level	≤ 60 dB(A)
Weight (Net/Gross)	165 kg
Power	1800 W
Power Supply	AC 200-240V, 50/60Hz or AC 100-130V, 50/60Hz

OPTIONAL ACCESSORIES

Accessory Code	Name	Description	Capacity	RPM	RCF _{xg}
LS52556	Swing-out Rotor	Blood collection tube	80x2-7 ml	4000	3400xg
LS52621	Adapter	0.5 ml PCR tube			
LS52660	Swing-out Rotor	Blood collection tube	140x2-7 ml	4000	3580xg
LS52737	Swing-out Rotor	4x250 ml		5000	5200xg

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

Temperature Range	-20°C to 40°C
Temperature Accuracy	± 1°C
Maximum Speed RPM	16000
Speed Accuracy	± 10 rpm
Maximum RCF	27520xg
Timer Range	1~99 h 59 min, pulse
Temperature Increment	1°C
Acceleration Rate	40
Deceleration Rate	40
Drive System	Direct, high-performance induction motor drive
Rotor Locking System	Auto-Lock
Rotor Identification	Auto-ID Instant, Automatic
Overall Dimension	730x850x930 mm
Program	12 user-defined
Noise Level	≤ 65 dB(A)
Weight (Net/Gross)	260 kg
Power	4500 W
Power Supply	AC 200-240V, 50/60Hz or AC 100-130V, 50/60Hz

OPTIONAL ACCESSORIES

Accessory Code	Name	Description	RPM	RCF _{xg}	Capacity
LS52023	Fixed-Angle Rotor	8x50 ml	14000	23270xg	
LS52036	Rotor	D12x75 glass tube			6x15ml
LS52049	Rotor	Conical tube with screw cap			8x15 ml
LS52062	Rotor	Conical tube with screw cap			12x5 ml
LS52075	Fixed-Angle Rotor	PP cone base with cover	15000	20375xg	24x1.5/2.2 ml
LS52088	Capillary Hematocrit Rotor	1.5 diameter	12000	15300xg	24 Capillary tubes
LS52101	Fixed-Angle Rotor	PP round bottom with cover	13500	12920xg	10x5 ml
LS52114	Fixed-Angle Rotor	PP cone base with cover	13000	16200xg	4x8x0.2 ml PCR tube
LS52127	Fixed-Angle Rotor	PP cone base with cover	13500	13250xg	36x0.5 ml
LS52140	Rotor	Rotor , 0.2ml X 8			8x2 ml
LS52153	Strip Rotor	Tube strip x 2 rows			8x0.2 ml
LS52166	Adapter	8pcs			0.5 ml
LS52529	Fixed-Angle Rotor	24x1.5/2.0 ml	16000	25520xg	
LS52582	Fixed-Angle Rotor	6x250 ml	10000	16750xg	
LS52686	Fixed-Angle Rotor	6x500 ml	8000	11860xg	
LS52750	Capillary Hematocrit Rotor	24 Capillary tubes			
LS53448	Fixed-Angle Rotor	16x10 ml	16000	27500xg	
LS54528	Fixed-Angle Rotor	6x50 ml	16000	27520xg	
LS54912	Fixed-Angle Rotor		14000	23600xg	6x100 ml
LS55116	Swing-out Rotor		4000	3500xg	4x750 ml
LS55128	Adapter	8pcs			0.2 ml

CEN37-0700R BLOOD BANK REFRIGERATED CENTRIFUGE

- Brushless DC motor
- Servomotor was adopt for lid open & lid lock, emergency lid release.
- LED display
- Microprocessor controller
- Inner chamber material: Stainless Steel
- Electronic door interlock
- Imbalance detection system
- Memory of 10 programs
- 10 levels of acceleration and 10 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



SPECIFICATIONS

Model	CEN37-0700R
Maximum Capacity (No of tubes x Vol.)	6x2400 ml bottles or 18 blood bags
Temperature Range	-20°C to 40°C
Temperature Accuracy	± 1°C
Maximum Speed RPM	7000
Speed Accuracy	± 20 rpm
Maximum RCF	11900xg
Timer Range	1~99 h 59 min, pulse
Temperature Increment	1°C
Acceleration Rate	10
Deceleration Rate	10
Drive System	Direct, flex-spin drive system
Motor	High-performance induction motor
Overall Dimension	900x850x1000 ml
Program	10 user-defined
Noise Level	≤ 60 dB(A)
Weight (Net/Gross)	560 kg
Power	7500 W
Power Supply	AC 380V, 50/60HZ, 35A

OPTIONAL ACCESSORIES

Accessory Code	Name	Description	Capacity	RPM	RCF _{xg}
LS52725	Swing-out Bucket Rotor	4x500 ml			
LS52738	Swing-out Bucket Rotor	Can spin 12 x 450-550 ml single, double, triple, quad, quint blood bags with or without additive, or spin 18 x 400 ml triple blood bags	6x2400 ml	4000	5600xg
LS52751	Swing-out Rotor – Adapter	4x250 ml			

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Centrifugen

82 Wendell Avenue, STE 100, Pittsfield, MA, 01201, USA
Email: info@centrifugen.com | Website: centrifugen.com