

MEDICAL CENTRIFUGES



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Medical centrifuges are the devices used in the laboratory for the separation of the components in the mixture at high accelerations by using the centrifugal force. The device works by using the principle of varying the densities of the sample components, in which smaller or lighter components remain nearer to the axis while the larger or heavier one travels outwards to the edge. They range from separating plasma and serum to analyzing the blood and isolating DNA molecules.

Used in Cell Washing, HCT, Blood type test, Biology, Radio-Immunity, Medical, Research.

Also known as Laboratory Medical Centrifuges.

LTCEN9-9 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	LTCEN9-9
Maximum Capacity (No of tubes x Vol.)	6x2000 ml bottles or 12 blood bags , 6 x 1 000 ml
Temperature Range	-20°C to 40°C
Temperature Accuracy	± 1°C
Maximum Speed	8 000 rpm with 6 x 500 ml , 4500 rpm
Speed Accuracy	± 20 rpm
Maximum RCF	14 500 Xg with 6 x 1 000 ml , 7095xg
Time Range	1~99 h : 59 min : 59 s
Control System	Microprocessor
Refrigeration System	CFC-Free
Drive System	Flex-spin drive system
Drive Motor	High-performance induction motor (Inverter Control)
Display	Full color touchscreen interface
Programmability	via easy access touchscreen menu
Program Storage	1000 user-defined
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 guarding,steel lid,etc.
Overall Dimension	34.6 x 37.8 x 37.4 in / 88 x 96 x 95 mm

Noise Level	≤ 65 dB(A)
Weight (Net/Gross)	560 kg
Power	7500 KW
Power Supply	AC 200-240 V, 50 Hz, AC 200-240 V, 60 Hz, AC 380V, 50Hz, AC 380V, 60Hz

OPTIONAL ACCESSORIES

Accessory Code	Name	Rotor Capacity	Max Speed (rpm)	Max RCF(g)
2500916008	No. 1 Swing-Bucket Rotor	6x2000 ml	4000 rpm	7095g
2500916009	No. 2 Fixed-Angle Rotor	6x1000 ml	8000 rpm	14500g
2500916010	adapters		8000 rpm	14500g
2500916011	adapters		8000 rpm	14500g
2500916012	adapters		8000 rpm	14500g
2500916013	adapters		8000 rpm	14500g
2500916014	adapters		8000 rpm	14500g
2500916015	adapters		8000 rpm	14500g
2500916016	adapters		8000 rpm	14500g
2500916017	adapters		8000 rpm	14500g
2500916018	adapters		8000 rpm	14500g
2500916019	adapters		8000 rpm	14500g
2500916020	adapters		8000 rpm	14500g
2500916021	adapters		8000 rpm	14500g
2500916022	adapters		8000 rpm	14500g
2500916023	adapters		8000 rpm	14500g
2500916024	adapters		8000 rpm	14500g
2500916025	adapters		8000 rpm	14500g
2500916026	adapters		8000 rpm	14500g
2500916027	adapters		8000 rpm	14500g
2500916028	No. 3 Fixed-Angle Rotor	6x500 ml	8000 rpm	11860g
2500916029	adapters		8000 rpm	11860g
2500916030	adapters		8000 rpm	11860g
2500916031	adapters		8000 rpm	11860g
2500916032	adapters		8000 rpm	11860g
2500916033	adapters		8000 rpm	11860g
2500916034	adapters		8000 rpm	11860g
2500916035	adapters		8000 rpm	11860g
2500916036	adapters		8000 rpm	11860g
2500916037	adapters		8000 rpm	11860g
2500916038	adapters		8000 rpm	11860g
2500916039	adapters		8000 rpm	11860g
2500916040	adapters		8000 rpm	11860g
2500916041	adapters		8000 rpm	11860g
2500916042	adapters		8000 rpm	11860g
2500916043	adapters		8000 rpm	11860g
2500916044	adapters		8000 rpm	11860g
2500916045	adapters		8000 rpm	11860g
2500916046	No. 4 Swing-Bucket Rotor	384x1.6-7 ml blood collection / urine tube	4000 rpm	4710g

LTCEN16-6 BLOOD TYPING CENTRIFUGE

- Brushless DC motor
- LED display
- Microprocessor controller
- The inner chamber is made up of stainless steel
- Electronic door interlock
- Faults are diagnosed automatically
- Operating parameters can be modified during the operation
- Stable operation



SPECIFICATIONS

Model	LTCEN16-6
Maximum Capacity (No of tubes x Vol.)	24 gel card
Maximum Speed	3840 rpm
Maximum RCF	1790xg
Drive System	Direct, induction motor drive
Overall Dimension	14.8x14.2x11.8 in / 37.5x36x30 mm
Noise Level	≤ 60 dB(A)
Weight (Net/Gross)	21 kg
Max. Power Consumption	100 W
Power Supply	AC 200-240 V, 50/60 Hz or AC 100-127 V, 50/60 Hz

OPTIONAL ACCESSORIES

Accessory Code	Name	Rotor Capacity
2501613008	No. 1 Swing-out Rotor	12 gel cards
2501613009	No. 2 Swing-out Rotor	24 gel cards

LTCEN22-8 MULTIPURPOSE REFRIGERATED CENTRIFUGE

- Brushless DC motor
- Microprocessor controller
- 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
- 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
- Stable operation



SPECIFICATIONS

Model	LTCEN22-8
Maximum Capacity (No of tubes x Vol.)	4x750 ml , 6 x 50 ml
Temperature Range	-20°C to 40°C
Temperature Accuracy	± 1°C
Maximum Speed	6000 rpm rpm with 6x50 ml / 12x15 ml , 5000 rpm with 4x250 ml rotor / 4x50 ml rotor / 4x100 ml rotor
Speed Accuracy	± 10 rpm
Maximum RCF	5120xg with 6x50 ml / 12x15 ml , 5200 Xg 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)
Overall Dimension	26.8x23.6x16.5 in / 68x60x42 mm
Program Storage	1000 user-defined
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	Max Speed (rpm)	Max RCF(g)	Rotor Capacity
2502215008	No. 1 Swing-out Rotor Rotor Cross	5000 rpm	4650g	
2502215009	Tube Racks	5000 rpm	4650g	4x50 ml
2502215010	Tube Racks	5000 rpm	4650g	4x100 ml
2502215011	No. 2 Swing-out Rotor Rotor Cross	4000 rpm	2980g	4x100 ml
2502215012	Tube Racks	4000 rpm	2980g	8x50 ml
2502215013	Tube Racks	4000 rpm	2980g	8x100 ml
2502215014	Tube Racks	4000 rpm	2980g	24x10 ml
2502215015	Tube Racks	4000 rpm	2980g	24x15 ml
2502215016	adapters	4000 rpm	2980g	
2502215017	adapters	4000 rpm	2980g	
2502215018	adapters	4000 rpm	2980g	
2502215019	adapters	4000 rpm	2980g	
2502215020	adapters	4000 rpm	2980g	
2502215021	adapters	4000 rpm	2980g	
2502215022	Tube Racks	4000 rpm	2980g	32x10 ml
2502215023	Tube Racks	4000 rpm	2980g	32x15 ml
2502215024	adapters	4000 rpm	2980g	
2502215025	adapters	4000 rpm	2980g	
2502215026	adapters	4000 rpm	2980g	
2502215027	adapters	4000 rpm	2980g	

2502215028	adapters	4000 rpm	2980g	
2502215029	adapters	4000 rpm	2980g	
2502215030	No. 2-2 Swing-Bucket Rotor	4000 rpm	2980g	4x175/225 ml Falcon conical bottle
2502215031	No. 2-3 Swing-Bucket Rotor	4000 rpm	3100g	36x4-10 ml blood collection / urine tube
2502215032	No. 2-4 Swing-Bucket Rotor	4000 rpm	3100g	48x1.6-7 ml blood collection / urine tube
2502215033	No. 2-5 Swing-Bucket Rotor	4000 rpm	3100g	64x1.6-7 ml blood collection / urine tube
2502215034	No. 3 Swing-Bucket Rotor Rotor Cross (with a wind shield)	5000 rpm	5200g	
2502215035	250ml Round Buckets	5000 rpm	5200g	4x250 ml
2502215036	adapters	5000 rpm	5200g	4x100 ml
2502215037	adapters	5000 rpm	5200g	4x50 ml
2502215038	adapters	5000 rpm	5200g	8x50 ml conical
2502215039	adapters	5000 rpm	5200g	8x50 ml round bottom
2502215040	adapters	5000 rpm	5200g	8x30 ml
2502215041	adapters	5000 rpm	5200g	20x15 ml
2502215042	adapters	5000 rpm	5200g	36x10 ml
2502215043	adapters	5000 rpm	5200g	20x5 ml conical
2502215044	adapters	5000 rpm	5200g	32x1.5/2.0 ml
2502215045	adapters	5000 rpm	5200g	32x2.0 ml
2502215046	adapters	5000 rpm	5200g	40x0.5 ml
2502215047	adapters	5000 rpm	5200g	20x10 ml virus sampling tube
2502215048	adapters	5000 rpm	5200g	28x4-10 ml blood collection / urine tube
2502215049	adapters	5000 rpm	5200g	40x1.6-7 ml blood collection / urine tube
18715787250	Tube Racks	5000 rpm	5200g	32x15 ml
18715787251	No. 4 Swing-Bucket Rotor	4000 rpm	1970g	2x3 pcs microplates (96 wells) or 2x3 pcs microtiter plates or 2x2 pcs cell culture plates or 2x1 pc deep well plates
18715787252	No. 5-1 Swing-Bucket Rotor Rotor Cross	4200 rpm	3550g	
18715787253	500ml Round Buckets	4200 rpm	3550g	4x500 ml
18715787254	Aerosol-tight lids for 500ml Round Buckets	4200 rpm	3550g	
18715787255	adapters	4200 rpm	3550g	4x250 ml
18715787256	adapters	4200 rpm	3550g	4x100 ml
18715787257	adapters	4200 rpm	3550g	16x50 ml conical
18715787258	adapters	4200 rpm	3550g	16x50 ml round bottom
18715787259	adapters	4200 rpm	3550g	16x30 ml
18715787260	adapters	4200 rpm	3550g	36x15 ml
18715787261	adapters	4200 rpm	3550g	56x10 ml
18715787262	adapters	4200 rpm	3550g	36x5 ml conical
18715787263	adapters	4200 rpm	3550g	80x1.5/2.0 ml
18715787264	adapters	4200 rpm	3550g	60x2.0 ml
18715787265	adapters	4200 rpm	3550g	80x0.5 ml
18715787266	adapters	4200 rpm	3550g	36x10 ml virus sampling tube
18715787267	adapters	4200 rpm	3550g	56x4-10 ml blood collection / urine tube
18715787268	adapters	4200 rpm	3550g	72x1.6-7 ml blood collection / urine tube
18715787269	adapters	4200 rpm	3550g	4x175/225 ml Falcon conical bottle
18715787270	Rectangular Buckets	4200 rpm	3550g	
18715787271	adapters	4200 rpm	3550g	20x50 ml conical

18715787272	adapters	4200 rpm	3550g	20x50 ml round bottom
18715787273	adapters	4200 rpm	3550g	20x30 ml
18715787274	adapters	4200 rpm	3550g	40x15 ml
18715787275	adapters	4200 rpm	3550g	40x5 ml conical
18715787276	adapters	4200 rpm	3550g	100x1.5/2.0 ml
18715787277	adapters	4200 rpm	3550g	100x2.0 ml
18715787278	adapters	4200 rpm	3550g	48x10 ml virus sampling tube
18715787279	adapters	4200 rpm	3550g	80x4-10 ml blood collection / urine tube
18715787280	adapters	4200 rpm	3550g	112x1.6-7 ml blood collection / urine tube
18715787281	Round Buckets	4200 rpm	3550g	148x5 ml Radio-immunity tube
18715787282	Round Buckets	4200 rpm	3550g	96x1.6-7 ml blood collection / urine tube
18715787283	Plate Buckets	4200 rpm	3550g	4x2 pcs microplates (96 wells) or 4x2 pcs microtiter plates or 4x2 pcs cell culture plates or 4x1 pc deep well plates
18715787284	No. 5-2 Swing-Bucket Rotor	4000 rpm	3400g	4x250 ml Corning conical bottle or 4x200 ml Nunc bottle
18715787285	No. 6-1 Swing-Bucket Rotor	4000 rpm	3500g	4x750 ml
18715787286	adapters	4000 rpm	3500g	4x500 ml
18715787287	adapters	4000 rpm	3500g	4x250 ml
18715787288	adapters	4000 rpm	3500g	12x100 ml
18715787289	adapters	4000 rpm	3500g	20x50 ml (conical)
18715787290	adapters	4000 rpm	3500g	20x50 ml (round bottom)
18715787291	adapters	4000 rpm	3500g	20x30 ml
18715787292	adapters	4000 rpm	3500g	56x15 ml
18715787293	adapters	4000 rpm	3500g	72x10 ml
18715787294	adapters	4000 rpm	3500g	56x5 ml (conical)
18715787295	adapters	4000 rpm	3500g	96x1.5/2.0 ml
18715787296	adapters	4000 rpm	3500g	88x2.0 ml
18715787297	adapters	4000 rpm	3500g	96x0.5 ml
18715787298	adapters	4000 rpm	3500g	76x4-10 ml blood collection / urine tube
18715787299	adapters	4000 rpm	3500g	96x1.6-7 ml blood collection / urine tube
18715787300	adapters	4000 rpm	3500g	148x5 ml Radio-immunity tube
18715787301	adapters	4000 rpm	3500g	4x175/225 ml Falcon conical bottle
18715787302	adapters	4000 rpm	3500g	4x30/50 ml Falcon Cell Culture Flasks or 4x30/50 ml Corning Cell Culture Flasks
18715787303	adapters	4000 rpm	3500g	4x40 ml Nunc Cell Culture Flasks
18715787304	adapters	4000 rpm	3500g	4x160 ml Nunc Cell Culture Flasks
18715787305	adapters	4000 rpm	3500g	4x200 ml Falcon Cell Culture Flasks or 4x200 ml Greiner Cell Culture Flasks or 4x200 ml Nunc Cell Culture Flasks
18715787107	No. 6-2 Swing-Bucket Rotor	4000 rpm	3500g	4 x 500 ml Corning conical bottle
18715787108	No. 7 Swing-Bucket Rotor	4000 rpm	3580g	6x250 ml
18715787109	adapters	4000 rpm	3580g	6x100 ml
18715787110	adapters	4000 rpm	3580g	6x50 ml
18715787111	adapters	4000 rpm	3580g	12x50 ml conical
18715787112	adapters	4000 rpm	3580g	12x50 ml round bottom
18715787113	adapters	4000 rpm	3580g	12x30 ml
18715787114	adapters	4000 rpm	3580g	30x15 ml
18715787115	adapters	4000 rpm	3580g	54x10 ml

18715787116	adapters	4000 rpm	3580g	30x5 ml conical
18715787117	adapters	4000 rpm	3580g	48x1.5/2.0 ml
18715787118	adapters	4000 rpm	3580g	48x2.0 ml
18715787119	adapters	4000 rpm	3580g	60x0.5 ml
18715787120	adapters	4000 rpm	3580g	30x10 ml virus sampling tube
18715787121	adapters	4000 rpm	3580g	42x4-10 ml blood collection / urine tube
18715787122	adapters	4000 rpm	3580g	60x1.6-7 ml blood collection / urine tube
18715787123	No. 8-1 Fixed-Angle Rotor	6000 rpm	5120g	12x15 ml
18715787124	adapters	6000 rpm	5120g	
18715787125	adapters	6000 rpm	5120g	
18715787126	adapters	6000 rpm	5120g	
18715787127	adapters	6000 rpm	5120g	
18715787128	adapters	6000 rpm	5120g	
18715787129	adapters	6000 rpm	5120g	
18715787130	No. 8-2 Fixed-Angle Rotor	6000 rpm	5120g	6x50 ml
18715787131	adapters	6000 rpm	5120g	
18715787132	adapters	6000 rpm	5120g	
18715787133	adapters	6000 rpm	5120g	
18715787134	adapters	6000 rpm	5120g	
18715787135	adapters	6000 rpm	5120g	
18715787136	adapters	6000 rpm	5120g	
18715787137	adapters	6000 rpm	5120g	
18715787138	adapters	6000 rpm	5120g	
18715787139	adapters	6000 rpm	5120g	

LTCEN29-7 MICROPLATE CENTRIFUGE

Applicable to all capacity PCR plates including 96-hole/384-hole microplate

SPECIFICATIONS

Model	LTCEN29-7
Maximum Capacity (No of tubes x Vol.)	384-well PCR microliter plate
Speed Range	2500 rpm
Maximum RCF	500xg
Ambient Temperature	5°C~40°C
Relative Humidity	≤85%
Atmospheric Pressure	860hPa-1060hPa
Overall Dimension	222x220x190 mm
Noise Level	≤ 60 dB
Weight (Net/Gross)	2.3 kg
Power Supply	110V 50/60Hz

OPTIONAL ACCESSORIES

Accessory Code	Name	Description	Capacity
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2502914008	Microplate Rotor	384-well / 96-well / Small capacity microliter plates / PCR microliter plates with or without skirt	384-well Microplate Rotor
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LTCEN29-8 PCR CENTRIFUGE

Compact design with small footprint

Acceleration / Deceleration: <18 seconds

Low noise

Metal rotor

Short Spin key for quick centrifugation

Temperature sensitive samples are protected by excellent air-flow

Lid is opened automatically after the operation is finished, which avoids overheating of the sample and save processing time

Maintenance free, Brushless DC motor

Autoclavable rotor



SPECIFICATIONS

Model	LTCEN29-8
Speed Range	800-13, 400
Maximum RCF	12100xg
Time Range	15 S~99 min
Acceleration/ Deceleration	13s / 12 s
Overall Dimension	260x260x150 mm
Weight (Net/Gross)	4.3 kg
Power	100 W
Power Supply	110V 60Hz, 230V 50 / 60 Hz

ACCESSORIES

Accessory Code	Name	Capacity	Max. Speed
2502915010	Rotor	8x1.5/2.0ml; 8x0.2ml; 2 strips	4000 rpm

OPTIONAL ACCESSORIES

Accessory Code	Name	Capacity
2502915008	Adapter	0.2 ml PCR tube
2502915009	Adapter	0.5 ml PCR tube

LTCEN22-26 PRP CENTRIFUGE

Microcomputer controlled and CFC-free refrigerant system. Can store 1000 user-defined programs. Maximum speed of 5000 RPM.



SPECIFICATIONS

Model	LTCEN22-26
Maximum Capacity (No of tubes x Vol.)	6x50 ml
Maximum Speed	5000 rpm
Speed Accuracy	±10rpm
Maximum RCF	3620xg
Temp. Control Range	-20~40°C
Temperature Accuracy	±1°C
Time Range	Count up or down
Acceleration	40
Deceleration	40
Refrigeration System	CFC-Free
Control System	Microprocessor
Display	Full color touch screen interface
Drive System	Direct, induction motor drive (brushless)
Programmability	Via easy access touch screen menu
Program Storage	1000 user-defined
Noise Level	≤56 dB (A)
Weight	80 kg
Overall Dimension	25.2x22x15.4 in / 64x56x39 mm
Max. Power Consumption	1200 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)
2502233008	No. 1-1 Swing-out Rotor	4X50 ml	4000 rpm	3000g
2502233009	No. 1-2 Swing-out Rotor	16x10 ml syringe	4000 rpm	3000g
2502233010	No. 2-1 Swing-out Rotor	8x15 ml prp kits	4000 rpm	3100g
2502233011	No. 2-2 Swing-out Rotor	8x20 ml syringe	4000 rpm	3100g
2502233012	No. 3-1 Swing-out Rotor	4x30/60 ml PRP kits	4000 rpm	3380g
2502233013	No. 3-2 Swing-out Rotor	4x50 ml syringe	4000 rpm	3380g

2502233014	No. 4-1 Swing-out Rotor	24x10 ml blood collection tube	4000 rpm	2890g
2502233015	No. 4-2 Swing-out Rotor	24x15 ml	4000 rpm	2890g
2502233016	adapters		4000 rpm	2890g
2502233017	adapters		4000 rpm	2890g
2502233018	adapters		4000 rpm	2890g
2502233019	adapters		4000 rpm	2890g
2502233020	No. 5 Swing-out Rotor	6x50 ml syringe	5000 rpm	3620g



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