

FLOOR MODEL CENTRIFUGES



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These types of centrifuges have high capacities along with high speed which makes the separation of particulates more faster and efficient even in complex mixtures. It provides controlled action over the speed, acceleration & deceleration. It has a variety of rotors and adapters which helps to make it suitable for a wide range of processes. They are generally used in cell & molecular biology, microbiology, immunology & cancer research.

Used in Cell Separation, Precipitation, Sample Processing, Clinical, Cell Culture, Microplate Processing, Biochemistry, medical diagnosis.

Also known as Floor Standing Centrifuges, Laboratory Floor Type Centrifuges, Floor Type Refrigerated Centrifuges.

LTCEN15 FLOOR MODEL 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	LTCEN15-14	LTCEN15-15
Maximum Capacity (No of tubes x Vol.)	4x250 ml , 4 x 100 ml	
Temp. Control Range	-20°C to 40°C	
Temperature Accuracy	± 1°C	
Maximum Speed	4 500 rpm with 4 x 250 ml rotor , 18 000 rpm with 12 x 1.5/2.0 ml	4 500 rpm with 4 x 250 ml rotor , 22 000 rpm with 12 x 1.5/2.0 ml
Speed Accuracy	± 10 rpm	
Maximum RCF	3 720 Xg with 4 x 250 ml rotor , 30 790 Xg with 24 x 1.5/2.0 ml	3 720 Xg with 4 x 250 ml rotor , 33 820 Xg with 12 x 1.5/2.0 ml
Time Range	Count up or down	
Acceleration Rate	40	
Deceleration Rate	40	
Drive System	Direct, induction motor drive (Inverter Control)	Direct,induction motor drive (Inverter Control)
Rotor Identification	Auto-ID Instant, immediately upon rotor insertion	
Control System	Microprocessor via user-intuitive touch screen interface control	
Refrigeration System	CFC-Free	

Display	Full color touch screen interface	
Programmability	Via easy access touch screen 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	26.8x24.4x33 in / 68x62x84 mm	26.8 x 24.4 x 33 in / 68 x 62 x 84 mm
Noise Level	≤ 60 dB(A)	
Weight (Net/Gross)	160 kg	
Power	1800 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)	For Models
2501521008	No. 1 Fixed-Angle Rotor	12x1.5/2.0 ml(with adapters for 0.2/0.5ml tube)	18000 rpm	22640g	LTCEN15-14
2501521009	No. 2 Fixed-Angle Rotor	12x5 ml	16000 rpm	20780g	LTCEN15-14
2501521010	No. 3-1 Fixed-Angle Rotor	24x1.5/2.0 ml(with adapters for 0.2/0.5ml tube)	16000 rpm	24790g	LTCEN15-14
2501521011	No. 3-2 Fixed-Angle Rotor	24x1.5/2.0 ml(with adapters for 0.2/0.5ml tube)(rotor with Aerosol-tight lid)	18000 rpm	30790g	LTCEN15-14
2501521012	No. 4-1 Fixed-Angle Rotor	12x10 ml	15000 rpm	20800g	LTCEN15-14
2501521013	No. 4-2 Fixed-Angle Rotor	36x1.5/2.0 ml(with adapters for 0.2/0.5ml tube)	15000 rpm	20800g	LTCEN15-14
2501521014	No. 5-1 Fixed-Angle Rotor	6x50 ml (conical)	13000 rpm	18420g	LTCEN15-14
2501521015	adapters		13000 rpm	18420g	LTCEN15-14
2501521016	adapters		13000 rpm	18420g	LTCEN15-14
2501521017	adapters		13000 rpm	18420g	LTCEN15-14
2501521018	adapters		13000 rpm	18420g	LTCEN15-14
2501521019	adapters		13000 rpm	18420g	LTCEN15-14
2501521020	adapters		13000 rpm	18420g	LTCEN15-14
2501521021	adapters		13000 rpm	18420g	LTCEN15-14
2501521022	adapters		13000 rpm	18420g	LTCEN15-14
2501521023	adapters		13000 rpm	18420g	LTCEN15-14
2501521024	adapters		13000 rpm	18420g	LTCEN15-14
2501521025	No. 5-2 Fixed-Angle Rotor	48x1.5/2.0 ml(with adapters for 0.2/0.5ml tube)	13000 rpm	18420g	LTCEN15-14
2501521026	No. 5-3 Fixed-Angle Rotor	6x50 ml (round bottom)	13000 rpm	18420g	LTCEN15-14
2501521027	adapters		13000 rpm	18420g	LTCEN15-14
2501521028	adapters		13000 rpm	18420g	LTCEN15-14
2501521029	adapters		13000 rpm	18420g	LTCEN15-14
2501521030	adapters		13000 rpm	18420g	LTCEN15-14
2501521031	adapters		13000 rpm	18420g	LTCEN15-14
2501521032	adapters		13000 rpm	18420g	LTCEN15-14
2501521033	adapters		13000 rpm	18420g	LTCEN15-14
2501521034	adapters		13000 rpm	18420g	LTCEN15-14
2501521035	adapters		13000 rpm	18420g	LTCEN15-14
2501521036	No. 6-1 Fixed-Angle Rotor	4x100 ml	10000 rpm	11040g	LTCEN15-14

2501521037	adapters		10000 rpm	11040g	LTCEN15-14
2501521038	adapters		10000 rpm	11040g	LTCEN15-14
2501521039	adapters		10000 rpm	11040g	LTCEN15-14
2501521040	adapters		10000 rpm	11040g	LTCEN15-14
2501521041	adapters		10000 rpm	11040g	LTCEN15-14
2501521042	adapters		10000 rpm	11040g	LTCEN15-14
2501521043	adapters		10000 rpm	11040g	LTCEN15-14
2501521044	adapters		10000 rpm	11040g	LTCEN15-14
2501521045	adapters		10000 rpm	11040g	LTCEN15-14
2501521046	adapters		10000 rpm	11040g	LTCEN15-14
2501521047	adapters		10000 rpm	11040g	LTCEN15-14
2501521048	adapters		10000 rpm	11040g	LTCEN15-14
2501521049	No. 6-2 Fixed-Angle Rotor	8x50 ml (conical)	10000 rpm	11040g	LTCEN15-14
2501521050	adapters		10000 rpm	11040g	LTCEN15-14
2501521051	adapters		10000 rpm	11040g	LTCEN15-14
2501521052	adapters		10000 rpm	11040g	LTCEN15-14
2501521053	adapters		10000 rpm	11040g	LTCEN15-14
2501521054	adapters		10000 rpm	11040g	LTCEN15-14
2501521055	adapters		10000 rpm	11040g	LTCEN15-14
2501521056	adapters		10000 rpm	11040g	LTCEN15-14
2501521057	adapters		10000 rpm	11040g	LTCEN15-14
2501521058	adapters		10000 rpm	11040g	LTCEN15-14
2501521059	adapters		10000 rpm	11040g	LTCEN15-14
2501521060	No. 6-3 Fixed-Angle Rotor	12x15 ml	12000 rpm	15890g	LTCEN15-14
2501521061	adapters		12000 rpm	15890g	LTCEN15-14
2501521062	adapters		12000 rpm	15890g	LTCEN15-14
2501521063	adapters		12000 rpm	15890g	LTCEN15-14
2501521064	adapters		12000 rpm	15890g	LTCEN15-14
2501521065	adapters		12000 rpm	15890g	LTCEN15-14
2501521066	adapters		12000 rpm	15890g	LTCEN15-14
2501521067	No. 6-4 Fixed-Angle Rotor	12x15 ml	10000 rpm	11040g	LTCEN15-14
2501521068	adapters		10000 rpm	11040g	LTCEN15-14
2501521069	adapters		10000 rpm	11040g	LTCEN15-14
2501521070	adapters		10000 rpm	11040g	LTCEN15-14
2501521071	adapters		10000 rpm	11040g	LTCEN15-14
2501521072	adapters		10000 rpm	11040g	LTCEN15-14
2501521073	adapters		10000 rpm	11040g	LTCEN15-14
2501521074	adapters		10000 rpm	11040g	LTCEN15-14
2501521075	adapters		10000 rpm	11040g	LTCEN15-14
2501521076	adapters		10000 rpm	11040g	LTCEN15-14
2501521077	No. 6-5 Fixed-Angle Rotor	22x10 ml	10000 rpm	11040g	LTCEN15-14
2501521078	No. 7 Fixed-Angle Rotor	6x10 ml	16000 rpm	18980g	LTCEN15-14
2501521079	No. 8-1 Fixed-Angle Rotor	8x15 ml	14000 rpm	17310g	LTCEN15-14
2501521080	adapters		14000 rpm	17310g	LTCEN15-14
2501521081	adapters		14000 rpm	17310g	LTCEN15-14
2501521082	adapters		14000 rpm	17310g	LTCEN15-14
2501521083	adapters		14000 rpm	17310g	LTCEN15-14
2501521084	adapters		14000 rpm	17310g	LTCEN15-14

2501521085	adapters		14000 rpm	17310g	LTCEN15-14
2501521086	No. 8-2 Fixed-Angle Rotor	6x30 ml	14000 rpm	17310g	LTCEN15-14
2501521087	adapters		14000 rpm	17310g	LTCEN15-14
2501521088	adapters		14000 rpm	17310g	LTCEN15-14
2501521089	adapters		14000 rpm	17310g	LTCEN15-14
2501521090	No. 9 Fixed-Angle 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	LTCEN15-14
2501521091	No. 10 Swing-Bucket Rotor Rotor Cross		4500 rpm	3720g	LTCEN15-14
2501521092	250 ml Round Buckets	4x250 ml	4500 rpm	3720g	LTCEN15-14
2501521093	adapters	4x100 ml	4500 rpm	3720g	LTCEN15-14
2501521094	adapters	4x50 ml	4500 rpm	3720g	LTCEN15-14
2501521095	adapters	8x50 ml (conical)	4500 rpm	3720g	LTCEN15-14
2501521096	adapters	8x50 ml (round bottom)	4500 rpm	3720g	LTCEN15-14
2501521097	adapters	8x30 ml	4500 rpm	3720g	LTCEN15-14
2501521098	adapters	20x15 ml	4500 rpm	3720g	LTCEN15-14
2501521099	adapters	36x10 ml	4500 rpm	3720g	LTCEN15-14
2501521100	adapters	20x5 ml (conical)	4500 rpm	3720g	LTCEN15-14
2501521101	adapters	32x1.5/2.0 ml	4500 rpm	3720g	LTCEN15-14
2501521102	adapters	32x2.0 ml	4500 rpm	3720g	LTCEN15-14
2501521103	adapters	40x0.5 ml	4500 rpm	3720g	LTCEN15-14
2501521104	adapters	20x10 ml virus sampling tube	4500 rpm	3720g	LTCEN15-14
2501521105	adapters	28x4 -10 ml blood collection / urine tube	4500 rpm	3720g	LTCEN15-14
2501521106	adapters	40x1.6 -7 ml blood collection / urine tube	4500 rpm	3720g	LTCEN15-14
2501521107	Conical Buckets	4x175/225 ml Falcon conical bottle	4500 rpm	3720g	LTCEN15-14
2501521108	Buckets	36x4-10 ml blood collection /urine tube	4000 rpm	3100g	LTCEN15-14
2501521109	Buckets	48x1.6 -7 ml blood collection / urine tube	4000 rpm	3100g	LTCEN15-14
2501521110	Buckets	64x1.6 -7 ml blood collection / urine tube	4000 rpm	3100g	LTCEN15-14
2501521111	No. 11 Fixed-Angle Rotor	12x50 ml (conical)	10000 rpm	14310g	LTCEN15-14
2501521112	adapters		10000 rpm	14310g	LTCEN15-14
2501521113	adapters		10000 rpm	14310g	LTCEN15-14
2501521114	adapters		10000 rpm	14310g	LTCEN15-14
2501521115	adapters		10000 rpm	14310g	LTCEN15-14
2501521116	adapters		10000 rpm	14310g	LTCEN15-14
2501521117	adapters		10000 rpm	14310g	LTCEN15-14
2501521118	adapters		10000 rpm	14310g	LTCEN15-14
2501521119	adapters		10000 rpm	14310g	LTCEN15-14
2501521120	adapters		10000 rpm	14310g	LTCEN15-14
2501521121	adapters		10000 rpm	14310g	LTCEN15-14
2501522008	No. 1 Fixed-Angle Rotor	12x1.5/2.0 ml(with adapters for 0.2/0.5ml tube)	22000 rpm	33820g	LTCEN15-15
2501522009	No. 2 Fixed-Angle Rotor	12x5 ml	17000 rpm	23460g	LTCEN15-15

2501522010	No. 3-1 Fixed-Angle Rotor	24x1.5/2.0 ml(with adapters for 0.2/0.5ml tube)	16500 rpm	26360g	LTCEN15-15
2501522011	No. 3-2 Fixed-Angle Rotor	24x1.5/2.0 ml(with adapters for 0.2/0.5ml tube)(rotor with Aerosol-tight lid)	18000 rpm	30790g	LTCEN15-15
2501522012	No. 4-1 Fixed-Angle Rotor	12x10 ml	15000 rpm	20800g	LTCEN15-15
2501522013	No. 4-2 Fixed-Angle Rotor	36x1.5/2.0 ml(with adapters for 0.2/0.5ml tube)	15000 rpm	20800g	LTCEN15-15
2501522014	No. 4-3 Fixed-Angle Rotor	8x15 ml	15000 rpm	20800g	LTCEN15-15
2501522015	adapters		15000 rpm	20800g	LTCEN15-15
2501522016	adapters		15000 rpm	20800g	LTCEN15-15
2501522017	adapters		15000 rpm	20800g	LTCEN15-15
2501522018	adapters		15000 rpm	20800g	LTCEN15-15
2501522019	adapters		15000 rpm	20800g	LTCEN15-15
2501522020	adapters		15000 rpm	20800g	LTCEN15-15
2501522021	No. 5-1 Fixed-Angle Rotor	6x50 ml (conical)	13000 rpm	18420g	LTCEN15-15
2501522022	adapters		13000 rpm	18420g	LTCEN15-15
2501522023	adapters		13000 rpm	18420g	LTCEN15-15
2501522024	adapters		13000 rpm	18420g	LTCEN15-15
2501522025	adapters		13000 rpm	18420g	LTCEN15-15
2501522026	adapters		13000 rpm	18420g	LTCEN15-15
2501522027	adapters		13000 rpm	18420g	LTCEN15-15
2501522028	adapters		13000 rpm	18420g	LTCEN15-15
2501522029	adapters		13000 rpm	18420g	LTCEN15-15
2501522030	adapters		13000 rpm	18420g	LTCEN15-15
2501522031	adapters		13000 rpm	18420g	LTCEN15-15
2501522032	No. 5-2 Fixed-Angle Rotor	48x1.5/2.0 ml(with adapters for 0.2/0.5ml tube)	13000 rpm	18420g	LTCEN15-15
2501522033	No. 5-3 Fixed-Angle Rotor	6x50 ml (round bottom)	13000 rpm	18420g	LTCEN15-15
2501522034	adapters		13000 rpm	18420g	LTCEN15-15
2501522035	adapters		13000 rpm	18420g	LTCEN15-15
2501522036	adapters		13000 rpm	18420g	LTCEN15-15
2501522037	adapters		13000 rpm	18420g	LTCEN15-15
2501522038	adapters		13000 rpm	18420g	LTCEN15-15
2501522039	adapters		13000 rpm	18420g	LTCEN15-15
2501522040	adapters		13000 rpm	18420g	LTCEN15-15
2501522041	adapters		13000 rpm	18420g	LTCEN15-15
2501522042	adapters		13000 rpm	18420g	LTCEN15-15
2501522043	No. 6-1 Fixed-Angle Rotor	4x100 ml	11000 rpm	13350g	LTCEN15-15
2501522044	adapters		11000 rpm	13350g	LTCEN15-15
2501522045	adapters		11000 rpm	13350g	LTCEN15-15
2501522046	adapters		11000 rpm	13350g	LTCEN15-15
2501522047	adapters		11000 rpm	13350g	LTCEN15-15
2501522048	adapters		11000 rpm	13350g	LTCEN15-15
2501522049	adapters		11000 rpm	13350g	LTCEN15-15
2501522050	adapters		11000 rpm	13350g	LTCEN15-15
2501522051	adapters		11000 rpm	13350g	LTCEN15-15
2501522052	adapters		11000 rpm	13350g	LTCEN15-15
2501522053	adapters		11000 rpm	13350g	LTCEN15-15

2501522054	adapters		11000 rpm	13350g	LTCEN15-15
2501522055	adapters		11000 rpm	13350g	LTCEN15-15
2501522056	No. 6-2 Fixed-Angle Rotor	8x50 ml (conical)	11000 rpm	13350g	LTCEN15-15
2501522057	adapters		11000 rpm	13350g	LTCEN15-15
2501522058	adapters		11000 rpm	13350g	LTCEN15-15
2501522059	adapters		11000 rpm	13350g	LTCEN15-15
2501522060	adapters		11000 rpm	13350g	LTCEN15-15
2501522061	adapters		11000 rpm	13350g	LTCEN15-15
2501522062	adapters		11000 rpm	13350g	LTCEN15-15
2501522063	adapters		11000 rpm	13350g	LTCEN15-15
2501522064	adapters		11000 rpm	13350g	LTCEN15-15
2501522065	adapters		11000 rpm	13350g	LTCEN15-15
2501522066	adapters		11000 rpm	13350g	LTCEN15-15
2501522067	No. 6-3 Fixed-Angle Rotor	12x15 ml	13000 rpm	18650g	LTCEN15-15
2501522068	7171506.3FA1		13000 rpm	18650g	LTCEN15-15
2501522069	7171506.3FA1		13000 rpm	18650g	LTCEN15-15
2501522070	7171506.3FA1		13000 rpm	18650g	LTCEN15-15
2501522071	7171506.3FA1		13000 rpm	18650g	LTCEN15-15
2501522072	7171506.3FA1		13000 rpm	18650g	LTCEN15-15
2501522073	7171506.3FA1		13000 rpm	18650g	LTCEN15-15
2501522074	No. 6-4 Fixed-Angle Rotor	8x50 ml (round bottom)	11000 rpm	13350g	LTCEN15-15
2501522075	adapters		11000 rpm	13350g	LTCEN15-15
2501522076	adapters		11000 rpm	13350g	LTCEN15-15
2501522077	adapters		11000 rpm	13350g	LTCEN15-15
2501522078	adapters		11000 rpm	13350g	LTCEN15-15
2501522079	adapters		11000 rpm	13350g	LTCEN15-15
2501522080	adapters		11000 rpm	13350g	LTCEN15-15
2501522081	adapters		11000 rpm	13350g	LTCEN15-15
2501522082	adapters		11000 rpm	13350g	LTCEN15-15
2501522083	adapters		11000 rpm	13350g	LTCEN15-15
2501522084	No. 6-5 Fixed-Angle Rotor	24x10 ml	11000 rpm	13350g	LTCEN15-15
2501522085	No. 7 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	LTCEN15-15
2501522086	No. 8 Swing-Bucket Rotor Rotor Crosss		4500 rpm	3720g	LTCEN15-15
2501522087	250ml Round Buckets	4x250 ml	4500 rpm	3720g	LTCEN15-15
2501522088	adapters	4x100 ml	4500 rpm	3720g	LTCEN15-15
2501522089	adapters	4x50 ml	4500 rpm	3720g	LTCEN15-15
2501522090	adapters	8x50 ml (conical)	4500 rpm	3720g	LTCEN15-15
2501522091	adapters	8x50 ml (round bottom)	4500 rpm	3720g	LTCEN15-15
2501522092	adapters	8x30 ml	4500 rpm	3720g	LTCEN15-15
2501522093	adapters	20x15 ml	4500 rpm	3720g	LTCEN15-15
2501522094	adapters	36x10 ml	4500 rpm	3720g	LTCEN15-15
2501522095	adapters	20x5 ml (conical)	4500 rpm	3720g	LTCEN15-15
2501522096	adapters	32x1.5/2.0 ml	4500 rpm	3720g	LTCEN15-15
2501522097	adapters	32x2.0 ml	4500 rpm	3720g	LTCEN15-15
2501522098	adapters	40x0.5 ml	4500 rpm	3720g	LTCEN15-15

2501522099	adapters	20x10 ml virus sampling tube	4500 rpm	3720g	LTCEN15-15
2501522100	adapters	28x4 -10 ml blood collection / urine tube	4500 rpm	3720g	LTCEN15-15
2501522101	adapters	40x1.6 -7 ml blood collection / urine tube	4500 rpm	3720g	LTCEN15-15
2501522102	Conical Buckets	4x175/225 ml Falcon conical bottle	4500 rpm	3720g	LTCEN15-15
2501522103	Buckets	36x4 -10 ml blood collection / urine tube	4000 rpm	3100g	LTCEN15-15
2501522104	Buckets	48x1.6 -7 ml blood collection / urine tube	4000 rpm	3100g	LTCEN15-15
2501522105	Buckets	64x1.6 -7 ml blood collection / urine tube	4000 rpm	3100g	LTCEN15-15
2501522106	No. 9-1 Swing-Bucket Rotor Rotor Cross		4200 rpm	3550g	LTCEN15-15
18708857107	500ml Round Buckets	4x500 ml	4200 rpm	3550g	LTCEN15-15
18708857108	Aerosol-tight lids for 500ml Round Buckets		4200 rpm	3550g	LTCEN15-15
18708857109	adapters	4x250 ml	4200 rpm	3550g	LTCEN15-15
18708857110	adapters	4x175/225 ml Falcon conical bottle	4200 rpm	3550g	LTCEN15-15
18708857111	adapters	4x100 ml	4200 rpm	3550g	LTCEN15-15
18708857112	adapters	16x50 ml (conical)	4200 rpm	3550g	LTCEN15-15
18708857113	adapters	16x50 ml (round bottom)	4200 rpm	3550g	LTCEN15-15
18708857114	adapters	16x30 ml	4200 rpm	3550g	LTCEN15-15
18708857115	adapters	36x15 ml	4200 rpm	3550g	LTCEN15-15
18708857116	adapters	56x10 ml	4200 rpm	3550g	LTCEN15-15
18708857117	adapters	36x5 ml (conical)	4200 rpm	3550g	LTCEN15-15
18708857118	adapters	80x1.5/2.0 ml	4200 rpm	3550g	LTCEN15-15
18708857119	adapters	60x2.0 ml	4200 rpm	3550g	LTCEN15-15
18708857120	adapters	80x0.5 ml	4200 rpm	3550g	LTCEN15-15
18708857121	adapters	36x10 ml virus sampling tube	4200 rpm	3550g	LTCEN15-15
18708857122	adapters	56x4 -10 ml blood collection / urine tube	4200 rpm	3550g	LTCEN15-15
18708857123	adapters	72x1.6 -7 ml blood collection / urine tube	4200 rpm	3550g	LTCEN15-15
18708857124	Rectangular Buckets		4200 rpm	3550g	LTCEN15-15
18708857125	adapters	20x50 ml (conical)	4200 rpm	3550g	LTCEN15-15
18708857126	adapters	20x50 ml (round bottom)	4200 rpm	3550g	LTCEN15-15
18708857127	adapters	20x30 ml (conical)	4200 rpm	3550g	LTCEN15-15
18708857128	adapters	40x15 ml (conical)	4200 rpm	3550g	LTCEN15-15
18708857129	adapters	40x5 ml (conical)	4200 rpm	3550g	LTCEN15-15
18708857130	adapters	100x1.5/2.0 ml	4200 rpm	3550g	LTCEN15-15
18708857131	adapters	100x2.0 ml	4200 rpm	3550g	LTCEN15-15
18708857132	adapters	80x4 -10 ml blood collection / urine tube	4200 rpm	3550g	LTCEN15-15
18708857133	adapters	80x4-10 ml blood collection / urine tube	4200 rpm	3550g	LTCEN15-15
18708857134	Round Buckets	148x5 ml Radio-immunity tube	4200 rpm	3550g	LTCEN15-15
18708857135	Round Buckets	96x1.6-7 ml blood collection / urine tube	4200 rpm	3550g	LTCEN15-15

18708857136	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	LTCEN15-15
18708857137	No. 9-2 Swing-Bucket Rotor	4x250 ml Corning conical bottle or 4 x 200 ml Nunc bottle	4200 rpm	3550g	LTCEN15-15
18708857138	No. 10-1 Swing-Bucket Rotor	4x750 ml	4000 rpm	3500g	LTCEN15-15
18708857139	adapters	4x500 ml	4000 rpm	3500g	LTCEN15-15
18708857140	adapters	4x250 ml	4000 rpm	3500g	LTCEN15-15
18708857141	adapters	4x175/225 ml Falcon conical bottle	4000 rpm	3500g	LTCEN15-15
18708857142	adapters	12x100 ml	4000 rpm	3500g	LTCEN15-15
18708857143	adapters	20x50 ml (conical)	4000 rpm	3500g	LTCEN15-15
18708857144	adapters	20x50 ml (round bottom)	4000 rpm	3500g	LTCEN15-15
18708857145	adapters	20x30 ml	4000 rpm	3500g	LTCEN15-15
18708857146	adapters	56x15 ml	4000 rpm	3500g	LTCEN15-15
18708857147	adapters	72x10 ml	4000 rpm	3500g	LTCEN15-15
18708857148	adapters	56x5 ml (conical)	4000 rpm	3500g	LTCEN15-15
18708857149	adapters	88x1.5/2.0 ml	4000 rpm	3500g	LTCEN15-15
18708857150	adapters	88x2.0 ml	4000 rpm	3500g	LTCEN15-15
18708857151	adapters	96x0.5 ml	4000 rpm	3500g	LTCEN15-15
18708857152	adapters	72x4-10 ml blood collection / urine tube	4000 rpm	3500g	LTCEN15-15
18708857153	adapters	96x1.6-7 ml blood collection / urine tube	4000 rpm	3500g	LTCEN15-15
18708857154	adapters	148x5 ml Radio-immunity tube	4000 rpm	3500g	LTCEN15-15
18708857155	adapters	4x30/50 ml Falcon Cell Culture Flasks or 4x30/50 ml Corning Cells Culture Flasks	4000 rpm	3500g	LTCEN15-15
18708857156	adapters	4x40 ml Nunc Cell Culture Flasks	4000 rpm	3500g	LTCEN15-15
18708857157	adapters	4x160 ml Nunc Cell Culture Flasks	4000 rpm	3500g	LTCEN15-15
18708857158	adapters	4x200 ml Falcon Cell Culture Flasks or 4x200 ml Greiner Cell Culture Flasks or 4x200 ml Nunc Cell Culture Flasks	4000 rpm	3500g	LTCEN15-15
18708857159	No. 10-2 Swing-Bucket Rotor	4x500 ml Corning conical bottle	4000 rpm	3500g	LTCEN15-15
18708857160	No. 11 Fixed-Angle Rotor	12x50 ml (conical)	10000 rpm	14310g	LTCEN15-15
18708857161	adapters		10000 rpm	14310g	LTCEN15-15
18708857162	adapters		10000 rpm	14310g	LTCEN15-15
18708857163	adapters		10000 rpm	14310g	LTCEN15-15
18708857164	adapters		10000 rpm	14310g	LTCEN15-15
18708857165	adapters		10000 rpm	14310g	LTCEN15-15
18708857166	adapters		10000 rpm	14310g	LTCEN15-15
18708857167	adapters		10000 rpm	14310g	LTCEN15-15
18708857168	adapters		10000 rpm	14310g	LTCEN15-15
18708857169	adapters		10000 rpm	14310g	LTCEN15-15
18708857170	adapters		10000 rpm	14310g	LTCEN15-15



LTCEN15-14



LTCEN15-15

LTCEN15-16 FLOOR MODEL 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	LTCEN15-16
Maximum Capacity (No of tubes x Vol.)	4x1000 ml , 4 x 750 ml
Temp. Control Range	-20°C to 40°C
Temperature Accuracy	± 1°C
Maximum Speed	25 000 rpm with 24 x 1.5/2.0 ml , 10 000 rpm with 6 x 50 ml rotor
Speed Accuracy	± 10 rpm
Maximum RCF	65 000 Xg with 16 x 10 ml , 15 680 Xg with 6 x 50 ml rotor
Time Range	1 min-99 h:59 min,Short
Temp. Accuracy	±1 °C
Acceleration Rate	40
Deceleration Rate	40
Drive System	Direct, Induction motor drive (Inverter Control)
Rotor Identification	Auto-ID Instant, immediately upon rotor insertion
Overall Dimension	28.7 x 33.5 x 36.6 in / 73 x 85 x 93 mm
Program Storage	100 user-defined
Safety Device	Rotor identification system with over speed protection, imbalance 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.
Noise Level	≤ 65 dB (A) (depending on rotor)

Weight (Net/Gross)	280 kg
Max. Power Consumption	5000 W
Power Supply	AC 200-240V, 50Hz or AC 200-240V,60Hz

OPTIONAL ACCESSORIES

Accessory Code	Name	Rotor Capacity	Max Speed (rpm)	Max RCF(g)
2501523008	No. 1 Fixed-Angle Rotor	24x1.5/2.0 ml(with adapters for 0.2/0.5ml tube)	25000 rpm	64800g
2501523009	No. 2.1 Fixed-Angle Rotor	16x10 ml	23000 rpm	56880g
2501523010	No. 2.2 Fixed-Angle Rotor	16x10 ml (Titanium alloy rotor)	24600 rpm	65000g
2501523011	No. 3 Fixed-Angle Rotor	8x50 ml (round)	21000 rpm	52360g
2501523012	adapters		21000 rpm	52360g
2501523013	adapters		21000 rpm	52360g
2501523014	adapters		21000 rpm	52360g
2501523015	adapters		21000 rpm	52360g
2501523016	adapters		21000 rpm	52360g
2501523017	adapters		21000 rpm	52360g
2501523018	adapters		21000 rpm	52360g
2501523019	adapters		21000 rpm	52360g
2501523020	adapters		21000 rpm	52360g
2501523021	adapters		21000 rpm	52360g
2501523022	No. 4 Fixed-Angle Rotor	6x250 ml	14000 rpm	32385g
2501523023	adapters		14000 rpm	32385g
2501523024	adapters		14000 rpm	32385g
2501523025	adapters		14000 rpm	32385g
2501523026	adapters		14000 rpm	32385g
2501523027	adapters		14000 rpm	32385g
2501523028	adapters		14000 rpm	32385g
2501523029	adapters		14000 rpm	32385g
2501523030	adapters		14000 rpm	32385g
2501523031	adapters		14000 rpm	32385g
2501523032	adapters		14000 rpm	32385g
2501523033	adapters		14000 rpm	32385g
2501523034	adapters		14000 rpm	32385g
2501523035	adapters		14000 rpm	32385g
2501523036	No. 5 Fixed-Angle Rotor	6x500 ml	10000 rpm	18590g
2501523037	adapters		10000 rpm	18590g
2501523038	adapters		10000 rpm	18590g
2501523039	adapters		10000 rpm	18590g
2501523040	adapters		10000 rpm	18590g
2501523041	adapters		10000 rpm	18590g
2501523042	adapters		10000 rpm	18590g
2501523043	adapters		10000 rpm	18590g
2501523044	adapters		10000 rpm	18590g
2501523045	adapters		10000 rpm	18590g
2501523046	adapters		10000 rpm	18590g
2501523047	adapters		10000 rpm	18590g

2501523048	adapters		10000 rpm	18590g
2501523049	adapters		10000 rpm	18590g
2501523050	adapters		10000 rpm	18590g
2501523051	adapters		10000 rpm	18590g
2501523052	adapters		10000 rpm	18590g
2501523053	No. 6 Fixed-Angle Rotor	4x1000 ml	8000 rpm	12040g
2501523054	adapters		8000 rpm	12040g
2501523055	adapters		8000 rpm	12040g
2501523056	adapters		8000 rpm	12040g
2501523057	adapters		8000 rpm	12040g
2501523058	adapters		8000 rpm	12040g
2501523059	adapters		8000 rpm	12040g
2501523060	adapters		8000 rpm	12040g
2501523061	adapters		8000 rpm	12040g
2501523062	adapters		8000 rpm	12040g
2501523063	adapters		8000 rpm	12040g
2501523064	adapters		8000 rpm	12040g
2501523065	adapters		8000 rpm	12040g
2501523066	adapters		8000 rpm	12040g
2501523067	adapters		8000 rpm	12040g
2501523068	adapters		8000 rpm	12040g
2501523069	adapters		8000 rpm	12040g
2501523070	adapters		8000 rpm	12040g
2501523071	adapters		8000 rpm	12040g
2501523072	No. 7 Fixed-Angle Rotor	12x50 ml (conical)	14000 rpm	30070g
2501523073	adapters		14000 rpm	30070g
2501523074	adapters		14000 rpm	30070g
2501523075	adapters		14000 rpm	30070g
2501523076	adapters		14000 rpm	30070g
2501523077	adapters		14000 rpm	30070g
2501523078	adapters		14000 rpm	30070g
2501523079	adapters		14000 rpm	30070g
2501523080	adapters		14000 rpm	30070g
2501523081	adapters		14000 rpm	30070g
2501523082	adapters		14000 rpm	30070g
2501523083	No. 8-1 Swing-Bucket Rotor	4x750 ml	5000 rpm	5600g
2501523084	adapters	4x500 ml	5000 rpm	5600g
2501523085	adapters	4x250 ml	5000 rpm	5600g
2501523086	adapters	4x175/225 ml Falcon conical bottle	5000 rpm	5600g
2501523087	adapters	12x100 ml	5000 rpm	5600g
2501523088	adapters	20x50 ml (conical)	5000 rpm	5600g
2501523089	adapters	20x50 ml (round bottom)	5000 rpm	5600g
2501523090	adapters	20x30 ml	5000 rpm	5600g
2501523091	adapters	20x25 ml (conical)	5000 rpm	5600g
2501523092	adapters	56x15 ml	5000 rpm	5600g
2501523093	adapters	72x10 ml	5000 rpm	5600g
2501523094	adapters	56x5 ml (conical)	5000 rpm	5600g
2501523095	adapters	88x1.5/2.0 ml	5000 rpm	5600g

2501523096	adapters	88x2.0 ml	5000 rpm	5600g
2501523097	adapters	96x0.5 ml	5000 rpm	5600g
2501523098	adapters	72x4 -10 ml blood collection / urine tube	5000 rpm	5600g
2501523099	adapters	96x1.6 -7 ml blood collection / urine tube	5000 rpm	5600g
2501523100	adapters	148x5 ml Radio-immunity tube	5000 rpm	5600g
2501523101	adapters	4x30/50 ml Falcon Cell Culture Flasks or 4x30/50 ml Corning Cell Culture Flasks	5000 rpm	5600g
2501523102	adapters	4x40 ml Nunc Cell Culture Flasks	5000 rpm	5600g
2501523103	adapters	4x160 ml Nunc Cell Culture Flasks	5000 rpm	5600g
2501523104	adapters	4x200 ml Falcon Cell Culture Flasks or 4x200 ml Greiner Cell Culture Flasks or 4x200 ml Nunc Cell Culture Flasks	5000 rpm	5600g
2501523105	No. 8-2 Swing-Bucket Rotor	4x500 ml Corning conical bottle	5000 rpm	5600g
2501523106	No. 9 Swing-Bucket Rotor	6x50 ml (round)	10000 rpm	15680g
2501523107	adapters		10000 rpm	15680g
2501523108	adapters		10000 rpm	15680g
2501523109	adapters		10000 rpm	15680g
2501523110	adapters		10000 rpm	15680g
2501523111	adapters		10000 rpm	15680g
2501523112	adapters		10000 rpm	15680g
2501523113	adapters		10000 rpm	15680g
2501523114	adapters		10000 rpm	15680g
2501523115	adapters		10000 rpm	15680g
2501523116	No. 10 Fixed-Angle Rotor	12x15 ml	18000 rpm	34740g
2501523117	adapters		18000 rpm	34740g
2501523118	adapters		18000 rpm	34740g
2501523119	adapters		18000 rpm	34740g
2501523120	adapters		18000 rpm	34740g
2501523121	adapters		18000 rpm	34740g
2501523122	adapters		18000 rpm	34740g

LTCEN16-21 FLOOR MODEL 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	LTCEN16-21
Maximum Capacity (No of tubes x Vol.)	4x250 ml
Maximum Speed	5000 rpm

Speed Accuracy	± 10 rpm
Maximum RCF	5200xg
Time Range	Count up or down
Acceleration Rate	40
Deceleration Rate	40
Control System	Microprocessor
Display	Full color touchscreen interface
Programmability	via easy access touchscreen menu
Drive System	Direct, induction motor drive (Inverter Control)
Overall Dimension	680x620x840 mm
Program	1000 user-defined
Noise Level	≤ 60 dB(A)
Weight (Net/Gross)	135 kg
Power	1200 W
Power Supply	AC 200-240 V, 50 Hz or AC 200-240 V, 60 Hz

ACCESSORIES

Accessory Code	Name	Capacity	RPM	RCF _{xg}
2501628011	Swing-out Rotor	4x250 ml	5000	5200xg

OPTIONAL ACCESSORIES

Accessory Code	Name	Description	Capacity	RPM	RCF _{xg}
2501628008	Swing-out Rotor	Blood collection tube	80x2-7 ml	4000	3400xg
2501628009	Swing-out Rotor	Blood collection tube	120x2-7 ml	4000	3580xg
2501628010	Swing-out Rotor	Blood collection tube	140x2-7 ml	4000	3580xg

LTCEN9-3 FLOOR MODEL 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	LTCEN9-3
Maximum Capacity (No of tubes x Vol.)	4x250 ml

Temp. Control Range	-20°C to 40°C
Temperature Accuracy	± 1°C
Maximum Speed	5000 rpm with 4 x 250 ml rotor
Speed Accuracy	± 10 rpm
Maximum RCF	5200xg with 4 x 250 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	26.8x24.4x33 in / 68x62x84 mm
Program Storage	1000 user-defined
Noise Level	≤ 60 dB(A)
Weight (Net/Gross)	158 kg
Max. Power Consumption	1800 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)
2500910008	No. 1 Swing-Bucket Rotor	4x250 ml	5000 rpm	5200Xg
2500910009	No. 2 Swing-Bucket Rotor	80x1.6-7 ml blood collection tube	4000 rpm	3400Xg
2500910010	No. 3 Swing-Bucket Rotor	120x1.6-7 ml blood collection tube	4000 rpm	3580Xg
2500910011	No. 4 Swing-Bucket Rotor	140x1.6-7 ml blood collection tube	4000 rpm	3580Xg

LTCEN9-4 FLOOR MODEL 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	LTCEN9-4
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 guarding, 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)
2500911008	No. 1 Fixed-Angle Rotor	6x50 ml (round)	16000 rpm	27520g
2500911009	adapters		16000 rpm	27520g
2500911010	adapters		16000 rpm	27520g
2500911011	adapters		16000 rpm	27520g
2500911012	adapters		16000 rpm	27520g
2500911013	adapters		16000 rpm	27520g
2500911014	adapters		16000 rpm	27520g
2500911015	adapters		16000 rpm	27520g
2500911016	adapters		16000 rpm	27520g
2500911017	adapters		16000 rpm	27520g
2500911018	adapters		16000 rpm	27520g
2500911019	No. 2 Fixed-Angle Rotor	24x1.5/2.0 ml(with adapters for 0.2/0.5ml tube)	16000 rpm	25520g
2500911020	No. 3 Fixed-Angle Rotor	16x10 ml	16000 rpm	27500g
2500911021	No. 4 Fixed-Angle Rotor	6x100 ml	14000 rpm	23600g
2500911022	adapters		14000 rpm	23600g
2500911023	adapters		14000 rpm	23600g
2500911024	adapters		14000 rpm	23600g
2500911025	adapters		14000 rpm	23600g

2500911026	adapters		14000 rpm	23600g
2500911027	adapters		14000 rpm	23600g
2500911028	adapters		14000 rpm	23600g
2500911029	adapters		14000 rpm	23600g
2500911030	adapters		14000 rpm	23600g
2500911031	adapters		14000 rpm	23600g
2500911032	adapters		14000 rpm	23600g
2500911033	adapters		14000 rpm	23600g
2500911034	No. 5 Fixed-Angle Rotor	8x50 ml (round)	14000 rpm	23270g
2500911035	adapters		14000 rpm	23270g
2500911036	adapters		14000 rpm	23270g
2500911037	adapters		14000 rpm	23270g
2500911038	adapters		14000 rpm	23270g
2500911039	adapters		14000 rpm	23270g
2500911040	adapters		14000 rpm	23270g
2500911041	adapters		14000 rpm	23270g
2500911042	adapters		14000 rpm	23270g
2500911043	adapters		14000 rpm	23270g
2500911044	adapters		14000 rpm	23270g
2500911045	No. 6 Fixed-Angle Rotor	6x250 ml	10000 rpm	16750g
2500911046	adapters		10000 rpm	16750g
2500911047	adapters		10000 rpm	16750g
2500911048	adapters		10000 rpm	16750g
2500911049	adapters		10000 rpm	16750g
2500911050	adapters		10000 rpm	16750g
2500911051	adapters		10000 rpm	16750g
2500911052	adapters		10000 rpm	16750g
2500911053	adapters		10000 rpm	16750g
2500911054	adapters		10000 rpm	16750g
2500911055	adapters		10000 rpm	16750g
2500911056	adapters		10000 rpm	16750g
2500911057	adapters		10000 rpm	16750g
2500911058	adapters		10000 rpm	16750g
2500911059	No. 7 Fixed-Angle Rotor	6x500 ml	8000 rpm	11860g
2500911060	adapters		8000 rpm	11860g
2500911061	adapters		8000 rpm	11860g
2500911062	adapters		8000 rpm	11860g
2500911063	adapters		8000 rpm	11860g
2500911064	adapters		8000 rpm	11860g
2500911065	adapters		8000 rpm	11860g
2500911066	adapters		8000 rpm	11860g
2500911067	adapters		8000 rpm	11860g
2500911068	adapters		8000 rpm	11860g
2500911069	adapters		8000 rpm	11860g
2500911070	adapters		8000 rpm	11860g
2500911071	adapters		8000 rpm	11860g
2500911072	adapters		8000 rpm	11860g
2500911073	adapters		8000 rpm	11860g

2500911074	adapters		8000 rpm	11860g
2500911075	adapters		8000 rpm	11860g
2500911076	adapters		8000 rpm	11860g
2500911077	No. 8.1 Fixed-Angle Rotor	4x750 ml	4500 rpm	4530g
2500911078	adapters	4x500 ml	4500 rpm	4530g
2500911079	adapters	4x250 ml	4500 rpm	4530g
2500911080	adapters	4x175/225 ml Falcon conical bottle	4500 rpm	4530g
2500911081	adapters	12x100 ml	4500 rpm	4530g
2500911082	adapters	20x50 ml (conical)	4500 rpm	4530g
2500911083	adapters	20x50 ml (round bottom)	4500 rpm	4530g
2500911084	adapters	20x30 ml	4500 rpm	4530g
2500911085	adapters	20x25 ml (conical)	4500 rpm	4530g
2500911086	adapters	56x15 ml	4500 rpm	4530g
2500911087	adapters	72x10 ml	4500 rpm	4530g
2500911088	adapters	56x5 ml (conical)	4500 rpm	4530g
2500911089	adapters	88x1.5/2.0 ml	4500 rpm	4530g
2500911090	adapters	88x2.0 ml	4500 rpm	4530g
2500911091	adapters	96x0.5 ml	4500 rpm	4530g
2500911092	adapters	72x4-10 ml blood collection / urine tube	4500 rpm	4530g
2500911093	adapters	96x1.6-7 ml blood collection / urine tube	4500 rpm	4530g
2500911094	adapters	148x5 ml Radio-immunity tube	4500 rpm	4530g
2500911095	adapters	4x30/50 ml Falcon Cell Culture Flasks or 4x30/50 ml Corning Cell Culture Flasks	4500 rpm	4530g
2500911096	adapters	4x40 ml Nunc Cell Culture Flasks	4500 rpm	4530g
2500911097	adapters	4x160 ml Nunc Cell Culture Flasks	4500 rpm	4530g
2500911098	adapters	4x200 ml Falcon Cell Culture Flasks or 4x200 ml Greiner Cell Culture Flasks or 4x200 ml Nunc Cell Culture Flasks	4500 rpm	4530g
2500911099	No. 8-2 Swing-Bucket Rotor	4x500 ml Corning conical bottle	4500 rpm	4530g

LTCEN22-21 FLOOR MODEL REFRIGERATED CENTRIFUGE

Microprocessor controlled programmable operation with full color touch screen interface. CFC-free refrigerant system and full color touch screen interface. Stores 1000 user-defined programs in centrifuge memory.



SPECIFICATIONS

Model	LTCEN22-21
Maximum Capacity (No of tubes x Vol.)	4x750 ml

Maximum Speed	5000 rpm with 4x250 ml rotor / 4x50 ml rotor / 4x100 ml rotor
Speed Accuracy	±10rpm
Maximum RCF	5200xg with 4x250 ml rotor
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 (Inverter Control)
Programmability	Via easy access touch screen menu
Program Storage	1000 user-defined
Safety Device	Imbalance protection, over speed protection, over current protection,lid inter lock system, lid open/close detection, steel housing, corrosion-resistant stainless steel centrifuge chamber, additional inner steel armored guardring, steel lid,etc.
Noise Level	≤58 dB (A)
Weight	158 kg
Overall Dimension	26.8x24.4x33 in / 68x62x84 mm
Max. Power Consumption	1800 KW
Power Supply	AC 200-240V,50Hz or AC 200-240V,60Hz

OPTIONAL ACCESSORIES

Accessory Code	Name	Max Speed (rpm)	Max RCF(g)	Rotar Capacity
2502228008	No. 1 Swing-out Rotor Rotor Cross	5000 rpm	4650g	
2502228009	Tube Racks	5000 rpm	4650g	4x50 ml
2502228010	Tube Racks	5000 rpm	4650g	4x100 ml
2502228011	No. 2 Swing-out Rotor Rotor Cross	4000 rpm	2980g	4x100 ml
2502228012	Tube Racks	4000 rpm	2980g	8x50 ml
2502228013	Tube Racks	4000 rpm	2980g	8x100 ml
2502228014	Tube Racks	4000 rpm	2980g	24x10 ml
2502228015	Tube Racks	4000 rpm	2980g	24x15 ml
2502228016	adapters	4000 rpm	2980g	
2502228017	adapters	4000 rpm	2980g	
2502228018	adapters	4000 rpm	2980g	
2502228019	adapters	4000 rpm	2980g	
2502228020	adapters	4000 rpm	2980g	
2502228021	adapters	4000 rpm	2980g	
2502228022	Tube Racks	4000 rpm	2980g	32x10 ml
2502228023	Tube Racks	4000 rpm	2980g	32x15 ml
2502228024	adapters	4000 rpm	2980g	
2502228025	adapters	4000 rpm	2980g	
2502228026	adapters	4000 rpm	2980g	
2502228027	adapters	4000 rpm	2980g	
2502228028	adapters	4000 rpm	2980g	

2502228029	adapters	4000 rpm	2980g	
2502228030	No. 2-2 Swing-Bucket Rotor	4000 rpm	2980g	4x175/225 ml Falcon conical bottle
2502228031	No. 2-3 Swing-Bucket Rotor	4000 rpm	3100g	36x4-10 ml blood collection / urine tube
2502228032	No. 2-4 Swing-Bucket Rotor	4000 rpm	3100g	48x1.6-7 ml blood collection / urine tube
2502228033	No. 2-5 Swing-Bucket Rotor	4000 rpm	3100g	64x1.6-7 ml blood collection / urine tube
2502228034	No. 3 Swing-Bucket Rotor Rotor Cross (with a wind shield)	4000 rpm	3100g	
2502228035	250ml Round Buckets	5000 rpm	5200g	4x250 ml
2502228036	adapters	5000 rpm	5200g	4x100 ml
2502228037	adapters	5000 rpm	5200g	4x50 ml
2502228038	adapters	5000 rpm	5200g	8x50 ml conical
2502228039	adapters	5000 rpm	5200g	8x50 ml round bottom
2502228040	adapters	5000 rpm	5200g	8x30 ml
2502228041	adapters	5000 rpm	5200g	20x15 ml
2502228042	adapters	5000 rpm	5200g	36x10 ml
2502228043	adapters	5000 rpm	5200g	20x5 ml conical
2502228044	adapters	5000 rpm	5200g	32x1.5/2.0 ml
2502228045	adapters	5000 rpm	5200g	32x2.0 ml
2502228046	adapters	5000 rpm	5200g	40x0.5 ml
2502228047	adapters	5000 rpm	5200g	20x10 ml virus sampling tube
2502228048	adapters	5000 rpm	5200g	28x4-10 ml blood collection / urine tube
2502228049	adapters	5000 rpm	5200g	40x1.6-7 ml blood collection / urine tube
2502228050	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
2502228051	No. 5-1 Swing-Bucket Rotor Rotor Cross	4200 rpm	3550g	
2502228052	500ml Round Buckets	4200 rpm	3550g	4x500 ml
2502228053	Aerosol-tight lids for 500ml Round Buckets	4200 rpm	3550g	
2502228054	adapters	4200 rpm	3550g	4x250 ml
2502228055	adapters	4200 rpm	3550g	4x100 ml
2502228056	adapters	4200 rpm	3550g	16x50 ml conical
2502228057	adapters	4200 rpm	3550g	16x50 ml round bottom
2502228058	adapters	4200 rpm	3550g	16x30 ml
2502228059	adapters	4200 rpm	3550g	36x15 ml
2502228060	adapters	4200 rpm	3550g	56x10 ml
2502228061	adapters	4200 rpm	3550g	36x5 ml conical
2502228062	adapters	4200 rpm	3550g	80x1.5/2.0 ml
2502228063	adapters	4200 rpm	3550g	60x2.0 ml
2502228064	adapters	4200 rpm	3550g	80x0.5 ml
2502228065	adapters	4200 rpm	3550g	36x10 ml virus sampling tube
2502228066	adapters	4200 rpm	3550g	56x4-10 ml blood collection / urine tube
2502228067	adapters	4200 rpm	3550g	72x1.6-7 ml blood collection / urine tube
2502228068	adapters	4200 rpm	3550g	4x175/225 ml Falcon conical bottle
2502228069	Rectangular Buckets	4200 rpm	3550g	
2502228070	adapters	4200 rpm	3550g	20x50 ml conical
2502228071	adapters	4200 rpm	3550g	20x50 ml round bottom
2502228072	adapters	4200 rpm	3550g	20x30 ml

2502228073	adapters	4200 rpm	3550g	40x15 ml
2502228074	adapters	4200 rpm	3550g	40x5 ml conical
2502228075	adapters	4200 rpm	3550g	100x1.5/2.0 ml
2502228076	adapters	4200 rpm	3550g	100x2.0 ml
2502228077	adapters	4200 rpm	3550g	48x10 ml virus sampling tube
2502228078	adapters	4200 rpm	3550g	80x4-10 ml blood collection / urine tube
2502228079	adapters	4200 rpm	3550g	112x1.6-7 ml blood collection / urine tube
2502228080	Round Buckets	4200 rpm	3550g	148x5 ml Radio-immunity tube
2502228081	Round Buckets	4200 rpm	3550g	96x1.6-7 ml blood collection / urine tube
2502228082	Plate Buckets	4200 rpm	3550g	4x3 pcs microplates (96 wells) or 4x3 pcs microtiter plates or 4x2 pcs cell culture plates or 4x1 pc deep well plates
2502228083	No. 5-2 Swing-Bucket Rotor	4200 rpm	3550g	4x250 ml Corning conical bottle or 4x200 ml Nunc bottle
2502228084	No. 6-1 Swing-Bucket Rotor	4200 rpm	3550g	4x750 ml
2502228085	adapters	4200 rpm	3550g	4x500 ml
2502228086	adapters	4200 rpm	3550g	4x250 ml
2502228087	adapters	4200 rpm	3550g	12x100 ml
2502228088	adapters	4200 rpm	3550g	20x50 ml (conical)
2502228089	adapters	4200 rpm	3550g	20x50 ml (round bottom)
2502228090	adapters	4200 rpm	3550g	20x30 ml
2502228091	adapters	4200 rpm	3550g	56x15 ml
2502228092	adapters	4200 rpm	3550g	72x10 ml
2502228093	adapters	4200 rpm	3550g	56x5 ml (conical)
2502228094	adapters	4200 rpm	3550g	96x1.5/2.0 ml
2502228095	adapters	4200 rpm	3550g	88x2.0 ml
2502228096	adapters	4200 rpm	3550g	96x0.5 ml
2502228097	adapters	4200 rpm	3550g	76x4-10 ml blood collection / urine tube
2502228098	adapters	4200 rpm	3550g	96x1.6-7 ml blood collection / urine tube
2502228099	adapters	4200 rpm	3550g	148x5 ml Radio-immunity tube
2502228100	adapters	4200 rpm	3550g	4x175/225 ml Falcon conical bottle
2502228101	adapters	4200 rpm	3550g	4x30/50 ml Falcon Cell Culture Flasks or 4x30/50 ml Corning Cell Culture Flasks
2502228102	adapters	4200 rpm	3550g	4x40 ml Nunc Cell Culture Flasks
2502228103	adapters	4200 rpm	3550g	4x160 ml Nunc Cell Culture Flasks
2502228104	adapters	4200 rpm	3550g	4x200 ml Falcon Cell Culture Flasks or 4x200 ml Greiner Cell Culture Flasks or 4x200 ml Nunc Cell Culture Flasks
2502228105	No. 6-2 Swing-Bucket Rotor	4000 rpm	3500g	4x500 ml Corning conical bottle
2502228106	No. 7 Swing-Bucket Rotor	4000 rpm	3580g	6x250 ml
2502228107	adapters	4000 rpm	3580g	6x100 ml
2502228108	adapters	4000 rpm	3580g	6x50 ml
2502228109	adapters	4000 rpm	3580g	12x50 ml conical
2502228110	adapters	4000 rpm	3580g	12x50 ml round bottom
2502228111	adapters	4000 rpm	3580g	12x30 ml
2502228112	adapters	4000 rpm	3580g	30x15 ml
2502228113	adapters	4000 rpm	3580g	54x10 ml
2502228114	adapters	4000 rpm	3580g	30x5 ml conical
2502228115	adapters	4000 rpm	3580g	48x1.5/2.0 ml

2502228116	adapters	4000 rpm	3580g	48x2.0 ml
2502228117	adapters	4000 rpm	3580g	60x0.5 ml
2502228118	adapters	4000 rpm	3580g	30x10 ml virus sampling tube
2502228119	adapters	4000 rpm	3580g	42x4-10 ml blood collection / urine tube
2502228120	adapters	4000 rpm	3580g	60x1.6-7 ml blood collection / urine tube
2502228121	No. 8 Swing-Bucket Rotor	4000 rpm	3580g	4 x buckets
2502228122	adapters	4000 rpm	3580g	4x500 ml
2502228123	adapters	4000 rpm	3580g	4x250 ml
2502228124	adapters	4000 rpm	3580g	16x100 ml
2502228125	adapters	4000 rpm	3580g	28x50 ml (conical)
2502228126	adapters	4000 rpm	3580g	28x50 ml (round bottom)
2502228127	adapters	4000 rpm	3580g	28x30 ml
2502228128	adapters	4000 rpm	3580g	56x15 ml
2502228129	adapters	4000 rpm	3580g	72x10 ml
2502228130	adapters	4000 rpm	3580g	56x5 ml (conical)
2502228131	adapters	4000 rpm	3580g	88x1.5/2.0 ml
2502228132	adapters	4000 rpm	3580g	88x2.0 ml
2502228133	adapters	4000 rpm	3580g	140x1.6-7 ml blood collection / urine tube

LTCEN22-22 FLOOR MODEL REFRIGERATED CENTRIFUGE

Microcomputer controlled and CFC-free refrigerant system. Can store 12 user-defined programs. Maximum speed of 22000 RPM.



SPECIFICATIONS

Model	LTCEN22-22
Maximum Capacity (No of tubes x Vol.)	4x1000 ml , 4x750 ml
Maximum Speed	22000 rpm with 16x10 ml , 13000 rpm with 4x30 ml rotor
Speed Accuracy	±10rpm
Maximum RCF	52050Xg with 16x10 ml , 23800Xg with 4x30 ml rotor
Temp. Control Range	-20~40°C
Temperature Accuracy	±1°C
Time Range	1 min-99 h:59 min,Pulse
Acceleration	40
Deceleration	40
Refrigeration System	CFC-Free
Control System	Microprocessor
Rotor Identification	Auto-ID Instant, immediately upon rotor insertion

Drive System	Direct, induction motor drive (Inverter Control)
Program Storage	1000 user-defined
Safety Device	Rotor identification system with overspeed protection, imbalance protection, overcurrent protection, lid interlock system, lid open / close detection, steel housing, corrosion-resistant stainless steel centrifuge chamber, additional inner steel armored guarding, steel lid, etc.
Noise Level	≤65 dB (A)
Weight	260 kg
Overall Dimension	28.7x33.5x36.6 in / 73x85x93 mm
Max. Power Consumption	5000 KW
Power Supply	AC 200-240V,50Hz or AC 200-240V,60Hz

OPTIONAL ACCESSORIES

Accessory Code	Name	Rotar Capacity	Max Speed (rpm)	Max RCF(g)
2502229008	No. 1 Fixed-Angle Rotor	16x10 ml	22000 rpm	50685g
2502229009	No. 2 Fixed-Angle Rotor	24x1.5/2.0 ml(with adapters for 0.2/0.5ml tube)	21000 rpm	43960g
2502229010	No. 3 Fixed-Angle Rotor	8x50 ml (round)	20000 rpm	47480g
2502229011	adapters		20000 rpm	47480g
2502229012	adapters		20000 rpm	47480g
2502229013	adapters		20000 rpm	47480g
2502229014	adapters		20000 rpm	47480g
2502229015	adapters		20000 rpm	47480g
2502229016	adapters		20000 rpm	47480g
2502229017	adapters		20000 rpm	47480g
2502229018	adapters		20000 rpm	47480g
2502229019	adapters		20000 rpm	47480g
2502229020	adapters		20000 rpm	47480g
2502229021	No. 4 Fixed-Angle Rotor	6x100 ml	16000 rpm	30910g
2502229022	adapters		16000 rpm	30910g
2502229023	adapters		16000 rpm	30910g
2502229024	adapters		16000 rpm	30910g
2502229025	adapters		16000 rpm	30910g
2502229026	adapters		16000 rpm	30910g
2502229027	adapters		16000 rpm	30910g
2502229028	adapters		16000 rpm	30910g
2502229029	adapters		16000 rpm	30910g
2502229030	adapters		16000 rpm	30910g
2502229031	adapters		16000 rpm	30910g
2502229032	adapters		16000 rpm	30910g
2502229033	adapters		16000 rpm	30910g
2502229034	No. 5 Fixed-Angle Rotor	8x100 ml	12000 rpm	19830g
2502229035	adapters		12000 rpm	19830g
2502229036	adapters		12000 rpm	19830g
2502229037	adapters		12000 rpm	19830g
2502229038	adapters		12000 rpm	19830g
2502229039	adapters		12000 rpm	19830g
2502229040	adapters		12000 rpm	19830g

2502229041	adapters		12000 rpm	19830g
2502229042	adapters		12000 rpm	19830g
2502229043	adapters		12000 rpm	19830g
2502229044	adapters		12000 rpm	19830g
2502229045	adapters		12000 rpm	19830g
2502229046	adapters		12000 rpm	19830g
2502229047	No. 6 Fixed-Angle Rotor	4x250 ml	14000 rpm	28150g
2502229048	adapters		14000 rpm	28150g
2502229049	adapters		14000 rpm	28150g
2502229050	adapters		14000 rpm	28150g
2502229051	adapters		14000 rpm	28150g
2502229052	adapters		14000 rpm	28150g
2502229053	adapters		14000 rpm	28150g
2502229054	adapters		14000 rpm	28150g
2502229055	adapters		14000 rpm	28150g
2502229056	adapters		14000 rpm	28150g
2502229057	adapters		14000 rpm	28150g
2502229058	adapters		14000 rpm	28150g
2502229059	adapters		14000 rpm	28150g
2502229060	adapters		14000 rpm	28150g
2502229061	No. 7 Fixed-Angle Rotor	6x250 ml	12000 rpm	24110g
2502229062	adapters		12000 rpm	24110g
2502229063	adapters		12000 rpm	24110g
2502229064	adapters		12000 rpm	24110g
2502229065	adapters		12000 rpm	24110g
2502229066	adapters		12000 rpm	24110g
2502229067	adapters		12000 rpm	24110g
2502229068	adapters		12000 rpm	24110g
2502229069	adapters		12000 rpm	24110g
2502229070	adapters		12000 rpm	24110g
2502229071	adapters		12000 rpm	24110g
2502229072	adapters		12000 rpm	24110g
2502229073	adapters		12000 rpm	24110g
2502229074	adapters		12000 rpm	24110g
2502229075	No. 8 Fixed-Angle Rotor	6x500 ml	10000 rpm	18590g
2502229076	adapters		10000 rpm	18590g
2502229077	adapters		10000 rpm	18590g
2502229078	adapters		10000 rpm	18590g
2502229079	adapters		10000 rpm	18590g
2502229080	adapters		10000 rpm	18590g
2502229081	adapters		10000 rpm	18590g
2502229082	adapters		10000 rpm	18590g
2502229083	adapters		10000 rpm	18590g
2502229084	adapters		10000 rpm	18590g
2502229085	adapters		10000 rpm	18590g
2502229086	adapters		10000 rpm	18590g
2502229087	adapters		10000 rpm	18590g
2502229088	adapters		10000 rpm	18590g

2502229089	adapters		10000 rpm	18590g
2502229090	adapters		10000 rpm	18590g
2502229091	adapters		10000 rpm	18590g
2502229092	adapters		10000 rpm	18590g
2502229093	No. 9 Fixed-Angle Rotor	4x1000 ml	8000 rpm	12040g
2502229094	adapters		8000 rpm	12040g
2502229095	adapters		8000 rpm	12040g
2502229096	adapters		8000 rpm	12040g
2502229097	adapters		8000 rpm	12040g
2502229098	adapters		8000 rpm	12040g
2502229099	adapters		8000 rpm	12040g
2502229100	adapters		8000 rpm	12040g
2502229101	adapters		8000 rpm	12040g
2502229102	adapters		8000 rpm	12040g
2502229103	adapters		8000 rpm	12040g
2502229104	adapters		8000 rpm	12040g
2502229105	adapters		8000 rpm	12040g
2502229106	adapters		8000 rpm	12040g
2502229107	adapters		8000 rpm	12040g
2502229108	adapters		8000 rpm	12040g
2502229109	adapters		8000 rpm	12040g
2502229110	adapters		8000 rpm	12040g
2502229111	adapters		8000 rpm	12040g
2502229112	No. 10 Swing-Bucket Rotor	4x50 ml	10000 rpm	16200g
2502229113	adapters		10000 rpm	16200g
2502229114	adapters		10000 rpm	16200g
2502229115	adapters		10000 rpm	16200g
2502229116	adapters		10000 rpm	16200g
2502229117	adapters		10000 rpm	16200g
2502229118	adapters		10000 rpm	16200g
2502229119	adapters		10000 rpm	16200g
2502229120	adapters		10000 rpm	16200g
2502229121	adapters		10000 rpm	16200g
2502229122	No. 11 Swing-Bucket Rotor	4x30 ml	13000 rpm	23800g
2502229123	adapters		13000 rpm	23800g
2502229124	adapters		13000 rpm	23800g
2502229125	adapters		13000 rpm	23800g
2502229126	No. 12 Swing-Bucket Rotor	4x4x5 ml	12000 rpm	11900g
2502229127	No. 13-1 Swing-Bucket Rotor	4x750 ml	5000 rpm	5600g
2502229128	adapters	4x500 ml	5000 rpm	5600g
2502229129	adapters	4x250 ml	5000 rpm	5600g
2502229130	adapters	4x175/225 ml Falcon conical bottle	5000 rpm	5600g
2502229131	adapters	12x100 ml	5000 rpm	5600g
2502229132	adapters	20x50 ml (conical)	5000 rpm	5600g
2502229133	adapters	20x50 ml (round bottom)	5000 rpm	5600g
2502229134	adapters	20x30 ml	5000 rpm	5600g
2502229135	adapters	20x25 ml (conical)	5000 rpm	5600g

2502229136	adapters	56x15 ml	5000 rpm	5600g
2502229137	adapters	72x10 ml	5000 rpm	5600g
2502229138	adapters	56x5 ml (conical)	5000 rpm	5600g
2502229139	adapters	88x1.5/2.0 ml	5000 rpm	5600g
2502229140	adapters	88x2.0 ml	5000 rpm	5600g
2502229141	adapters	96x0.5 ml	5000 rpm	5600g
2502229142	adapters	72x4-10 ml blood collection / urine tube	5000 rpm	5600g
2502229143	adapters	96x1.6-7 ml blood collection / urine tube	5000 rpm	5600g
2502229144	adapters	148x5 ml Radio-immunity tube	5000 rpm	5600g
2502229145	adapters	4x30/50 ml Falcon Cell Culture Flasks or 4x30/50 ml Corning Cell Culture Flasks	5000 rpm	5600g
2502229146	adapters	4x40 ml Nunc Cell Culture Flasks	5000 rpm	5600g
2502229147	adapters	4x160 ml Nunc Cell Culture Flasks	5000 rpm	5600g
2502229148	adapters	4x200 ml Falcon Cell Culture Flasks or 4x200 ml Greiner Cell Culture Flasks or 4x200 ml Nunc Cell Culture Flasks	5000 rpm	5600g
2502229149	No. 13-2 Swing-Bucket Rotor	4x500 ml Corning conical bottle	5000 rpm	5600g

LTCEN22-23 FLOOR MODEL REFRIGERATED CENTRIFUGE

Microcomputer controlled and CFC-free refrigerant system. Can store 12 user-defined programs. Maximum speed of 21000 RPM.



SPECIFICATIONS

Model	LTCEN22-23
Maximum Capacity (No of tubes x Vol.)	4x1000 ml , 4x50 ml
Maximum Speed	21000 rpm with 16x10 ml , 13000 rpm with 4x30 ml rotor
Speed Accuracy	±10rpm
Maximum RCF	47400xg with 16x10 ml , 23800Xg with 4x30 ml rotor
Temp. Control Range	-20~40°C increments
Temperature Accuracy	±1°C
Time Range	1 min-99 h:59 min,Pulse
Acceleration	40
Deceleration	40
Refrigeration System	CFC-Free

Control System	Microprocessor
Rotor Identification	Auto-ID Instant, automatic
Drive System	Direct, high-performance induction motor driving (Inverter Control)
Program	1000 user-defined
Safety Device	Rotor identification system with overspeed protection, imbalance protection, overcurrent protection, lid interlock system, lid open / close detection, steel housing, corrosion-resistant stainless steel centrifuge chamber, additional inner steel armored guarding, steel lid, etc.
Noise Level	≤65 dB (A)
Weight	260 kg
Overall Dimension	28.7x33.5x36.6 in / 73x85x93 mm
Power	5000 KW
Power Supply	AC 200-240V,50Hz or AC 200-240V,60Hz

OPTIONAL ACCESSORIES

Accessory Code	Name	Rotar Capacity	Max Speed (rpm)	Max RCF(g)
2502230008	No. 1 Fixed-Angle Rotor	16x10 ml	21000 rpm	47400g
2502230009	No. 2 Fixed-Angle Rotor	24x1.5/2.0 ml(with adapters for 0.2/0.5ml tube)	21000 rpm	43960g
2502230010	No. 3 Fixed-Angle Rotor	6x50 ml (round)	20000 rpm	44800g
2502230011	adapters		20000 rpm	44800g
2502230012	adapters		20000 rpm	44800g
2502230013	adapters		20000 rpm	44800g
2502230014	adapters		20000 rpm	44800g
2502230015	adapters		20000 rpm	44800g
2502230016	adapters		20000 rpm	44800g
2502230017	adapters		20000 rpm	44800g
2502230018	adapters		20000 rpm	44800g
2502230019	adapters		20000 rpm	44800g
2502230020	adapters		20000 rpm	44800g
2502230021	No. 4 Fixed-Angle Rotor	8x50 ml (round)	18000 rpm	38460g
2502230022	adapters		18000 rpm	38460g
2502230023	adapters		18000 rpm	38460g
2502230024	adapters		18000 rpm	38460g
2502230025	adapters		18000 rpm	38460g
2502230026	adapters		18000 rpm	38460g
2502230027	adapters		18000 rpm	38460g
2502230028	adapters		18000 rpm	38460g
2502230029	adapters		18000 rpm	38460g
2502230030	adapters		18000 rpm	38460g
2502230031	adapters		18000 rpm	38460g
2502230032	No. 5 Fixed-Angle Rotor	6x100 ml	16000 rpm	30910g
2502230033	adapters		16000 rpm	30910g
2502230034	adapters		16000 rpm	30910g
2502230035	adapters		16000 rpm	30910g
2502230036	adapters		16000 rpm	30910g
2502230037	adapters		16000 rpm	30910g
2502230038	adapters		16000 rpm	30910g

2502230039	adapters		16000 rpm	30910g
2502230040	adapters		16000 rpm	30910g
2502230041	adapters		16000 rpm	30910g
2502230042	adapters		16000 rpm	30910g
2502230043	adapters		16000 rpm	30910g
2502230044	adapters		16000 rpm	30910g
2502230045	No. 6 Fixed-Angle Rotor	8x100 ml	12000 rpm	19830g
2502230046	adapters		12000 rpm	19830g
2502230047	adapters		12000 rpm	19830g
2502230048	adapters		12000 rpm	19830g
2502230049	adapters		12000 rpm	19830g
2502230050	adapters		12000 rpm	19830g
2502230051	adapters		12000 rpm	19830g
2502230052	adapters		12000 rpm	19830g
2502230053	adapters		12000 rpm	19830g
2502230054	adapters		12000 rpm	19830g
2502230055	adapters		12000 rpm	19830g
2502230056	adapters		12000 rpm	19830g
2502230057	adapters		12000 rpm	19830g
2502230058	No. 7 Fixed-Angle Rotor	4x250 ml	14000 rpm	28150g
2502230059	adapters		14000 rpm	28150g
2502230060	adapters		14000 rpm	28150g
2502230061	adapters		14000 rpm	28150g
2502230062	adapters		14000 rpm	28150g
2502230063	adapters		14000 rpm	28150g
2502230064	adapters		14000 rpm	28150g
2502230065	adapters		14000 rpm	28150g
2502230066	adapters		14000 rpm	28150g
2502230067	adapters		14000 rpm	28150g
2502230068	adapters		14000 rpm	28150g
2502230069	adapters		14000 rpm	28150g
2502230070	adapters		14000 rpm	28150g
2502230071	adapters		14000 rpm	28150g
2502230072	No. 8 Fixed-Angle Rotor	6x250 ml	12000 rpm	24110g
2502230073	adapters		12000 rpm	24110g
2502230074	adapters		12000 rpm	24110g
2502230075	adapters		12000 rpm	24110g
2502230076	adapters		12000 rpm	24110g
2502230077	adapters		12000 rpm	24110g
2502230078	adapters		12000 rpm	24110g
2502230079	adapters		12000 rpm	24110g
2502230080	adapters		12000 rpm	24110g
2502230081	adapters		12000 rpm	24110g
2502230082	adapters		12000 rpm	24110g
2502230083	adapters		12000 rpm	24110g
2502230084	adapters		12000 rpm	24110g
2502230085	adapters		12000 rpm	24110g
2502230086	No. 9 Fixed-Angle Rotor	6x500 ml	10000 rpm	18590g

2502230087	adapters		10000 rpm	18590g
2502230088	adapters		10000 rpm	18590g
2502230089	adapters		10000 rpm	18590g
2502230090	adapters		10000 rpm	18590g
2502230091	adapters		10000 rpm	18590g
2502230092	adapters		10000 rpm	18590g
2502230093	adapters		10000 rpm	18590g
2502230094	adapters		10000 rpm	18590g
2502230095	adapters		10000 rpm	18590g
2502230096	adapters		10000 rpm	18590g
2502230097	adapters		10000 rpm	18590g
2502230098	adapters		10000 rpm	18590g
2502230099	adapters		10000 rpm	18590g
2502230100	adapters		10000 rpm	18590g
2502230101	adapters		10000 rpm	18590g
2502230102	adapters		10000 rpm	18590g
2502230103	adapters		10000 rpm	18590g
2502230104	No. 10 Fixed-Angle Rotor	4x1000 ml	8000 rpm	12040g
2502230105	adapters		8000 rpm	12040g
2502230106	adapters		8000 rpm	12040g
2502230107	adapters		8000 rpm	12040g
2502230108	adapters		8000 rpm	12040g
2502230109	adapters		8000 rpm	12040g
2502230110	adapters		8000 rpm	12040g
2502230111	adapters		8000 rpm	12040g
2502230112	adapters		8000 rpm	12040g
2502230113	adapters		8000 rpm	12040g
2502230114	adapters		8000 rpm	12040g
2502230115	adapters		8000 rpm	12040g
2502230116	adapters		8000 rpm	12040g
2502230117	adapters		8000 rpm	12040g
2502230118	adapters		8000 rpm	12040g
2502230119	adapters		8000 rpm	12040g
2502230120	adapters		8000 rpm	12040g
2502230121	adapters		8000 rpm	12040g
2502230122	adapters		8000 rpm	12040g
2502230123	No. 11 Fixed-Angle Rotor	4x50 ml	10000 rpm	16200g
2502230124	adapters		10000 rpm	16200g
2502230125	adapters		10000 rpm	16200g
2502230126	adapters		10000 rpm	16200g
2502230127	adapters		10000 rpm	16200g
2502230128	adapters		10000 rpm	16200g
2502230129	adapters		10000 rpm	16200g
2502230130	adapters		10000 rpm	16200g
2502230131	adapters		10000 rpm	16200g
2502230132	adapters		10000 rpm	16200g
2502230133	No. 12 Fixed-Angle Rotor	4x30 ml	13000 rpm	23800g
2502230134	adapters		13000 rpm	23800g

2502230135	adapters		13000 rpm	23800g
2502230136	adapters		13000 rpm	23800g
2502230137	No. 13 Fixed-Angle Rotor	4x4x5 ml	12000 rpm	11900g

LTCEN22-24 FLOOR MODEL REFRIGERATED CENTRIFUGE

Microcomputer controlled and CFC-free refrigerant system. Can store 12 user-defined programs. Maximum speed of 10000 RPM.



SPECIFICATIONS

Model	LTCEN22-24
Maximum Capacity (No of tubes x Vol.)	6x1000 ml , 4x750 ml
Maximum Speed	10000 rpm with 6x500 ml / 6x250 ml , 4000 rpm with 4x750 ml rotor
Speed Accuracy	± 10rpm
Maximum RCF	18590xg with 6x500 ml ,3500Xg with 4x750 ml rotor
Temp. Control Range	-20~40°C increments
Temperature Accuracy	± 1°C
Time Range	1 min-99 h:59 min,Pulse
Acceleration	40
Deceleration	40
Refrigeration System	CFC-Free
Control System	Microprocessor
Rotor locking System	Auto-lock
Rotor Identification	Auto-ID Instant, automatic
Drive System	Direct, high-performance induction motor driving (Inverter Control)
Program	1000 user-defined
Safety Device	Rotor identification system with overspeed protection, imbalance protection, overcurrent protection, lid interlock system, lid open / close detection, steel housing, corrosion-resistant stainless steel centrifuge chamber, additional inner steel armored guarding, steel lid,etc.
Noise Level	≤65 dB (A)
Weight	260 kg
Overall Dimension	28.7x33.5x36.6 in / 73x85x93 mm
Max. Power Consumption	5500 KW
Power Supply	AC 200-240V,50Hz or AC 200-240V,60Hz

OPTIONAL ACCESSORIES

Accessory Code	Name	Rotar Capacity	Max Speed (rpm)	Max RCF(g)
2502231008	No. 1 Fixed-Angle Rotor	6x500 ml	10000 rpm	18590g
2502231009	adapters		10000 rpm	18590g
2502231010	adapters		10000 rpm	18590g
2502231011	adapters		10000 rpm	18590g
2502231012	adapters		10000 rpm	18590g
2502231013	adapters		10000 rpm	18590g
2502231014	adapters		10000 rpm	18590g
2502231015	adapters		10000 rpm	18590g
2502231016	adapters		10000 rpm	18590g
2502231017	adapters		10000 rpm	18590g
2502231018	adapters		10000 rpm	18590g
2502231019	adapters		10000 rpm	18590g
2502231020	adapters		10000 rpm	18590g
2502231021	adapters		10000 rpm	18590g
2502231022	adapters		10000 rpm	18590g
2502231023	adapters		10000 rpm	18590g
2502231024	adapters		10000 rpm	18590g
2502231025	adapters		10000 rpm	18590g
2502231026	No. 2 Fixed-Angle Rotor	6x1000 ml	8000 rpm	15190g
2502231027	adapters		8000 rpm	15190g
2502231028	adapters		8000 rpm	15190g
2502231029	adapters		8000 rpm	15190g
2502231030	adapters		8000 rpm	15190g
2502231031	adapters		8000 rpm	15190g
2502231032	adapters		8000 rpm	15190g
2502231033	adapters		8000 rpm	15190g
2502231034	adapters		8000 rpm	15190g
2502231035	adapters		8000 rpm	15190g
2502231036	adapters		8000 rpm	15190g
2502231037	adapters		8000 rpm	15190g
2502231038	adapters		8000 rpm	15190g
2502231039	adapters		8000 rpm	15190g
2502231040	adapters		8000 rpm	15190g
2502231041	adapters		8000 rpm	15190g
2502231042	adapters		8000 rpm	15190g
2502231043	adapters		8000 rpm	15190g
2502231044	adapters		8000 rpm	15190g
2502231045	No. 3 Fixed-Angle Rotor	6x250 ml	10000 rpm	16750g
2502231046	adapters		10000 rpm	16750g
2502231047	adapters		10000 rpm	16750g
2502231048	adapters		10000 rpm	16750g
2502231049	adapters		10000 rpm	16750g
2502231050	adapters		10000 rpm	16750g
2502231051	adapters		10000 rpm	16750g

2502231052	adapters		10000 rpm	16750g
2502231053	adapters		10000 rpm	16750g
2502231054	adapters		10000 rpm	16750g
2502231055	adapters		10000 rpm	16750g
2502231056	adapters		10000 rpm	16750g
2502231057	adapters		10000 rpm	16750g
2502231058	adapters		10000 rpm	16750g
2502231059	No. 4-1 Fixed-Angle Rotor	4x750 ml	4000 rpm	3500g
2502231060	adapters	4x500 ml	4000 rpm	3500g
2502231061	adapters	4x250 ml	4000 rpm	3500g
2502231062	adapters	4x175/225 ml Falcon conical bottle	4000 rpm	3500g
2502231063	adapters	12x100 ml	4000 rpm	3500g
2502231064	adapters	20x50 ml (conical)	4000 rpm	3500g
2502231065	adapters	20x50 ml (round bottom)	4000 rpm	3500g
2502231066	adapters	20x30 ml	4000 rpm	3500g
2502231067	adapters	20x25 ml (conical)	4000 rpm	3500g
2502231068	adapters	56x15 ml	4000 rpm	3500g
2502231069	adapters	72x10 ml	4000 rpm	3500g
2502231070	adapters	56x5 ml (conical)	4000 rpm	3500g
2502231071	adapters	88x1.5/2.0 ml	4000 rpm	3500g
2502231072	adapters	88x2.0 ml	4000 rpm	3500g
2502231073	adapters	96x0.5 ml	4000 rpm	3500g
2502231074	adapters	72x4-10 ml blood collection / urine tube	4000 rpm	3500g
2502231075	adapters	96x1.6-7 ml blood collection / urine tube	4000 rpm	3500g
2502231076	adapters	148x5 ml Radio-immunity tube	4000 rpm	3500g
2502231077	adapters	4x30/50 ml Falcon Cell Culture Flasks or 4x30/50 ml Corning Cell Culture Flasks	4000 rpm	3500g
2502231078	adapters	4x40 ml Nunc Cell Culture Flasks	4000 rpm	3500g
2502231079	adapters	4x160 ml Nunc Cell Culture Flasks	4000 rpm	3500g
2502231080	adapters	4x200 ml Falcon Cell Culture Flasks or 4x200 ml Greiner Cell Culture Flasks or 4x200 ml Nunc Cell Culture Flasks	4000 rpm	3500g
2502231081	No. 4-2 Swing-Bucket Rotor	4x500 ml Corning conical bottle	4000 rpm	3500g

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



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