

BENCHTOP REFRIGERATED CENTRIFUGE LTCEN22-11



BENCHTOP REFRIGERATED CENTRIFUGE

LTCEN22-11

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, Benchtop Centrifuges, Laboratory Tabletop Centrifuges.

LTCEN22-11 BENCHTOP REFRIGERATED CENTRIFUGE

Brushless DC motor

Microprocessor controller

LCD display

Inner chamber material: Stainless Steel

Electronic door interlock

Automatic rotor identification

Memory of 12 programs

19 levels of acceleration and 19 levels of deceleration

Faults are diagnosed automatically

CFC-free refrigerants system (TECUMSEH EUROPE COMPRESSOR)

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

Operating parameters can be modified during the operation



SPECIFICATIONS

Model	LTCEN22-11
Maximum Capacity (No of tubes x Vol.)	6x100 ml , 4x750 ml
Temp. Control Range	-20°C to 40°C
Temperature Accuracy	± 1°C
Maximum Speed	23000 rpm with 12x1.5/2.0 ml , 4500 rpm with 4x250 ml rotor
Speed Accuracy	± 10 rpm
Maximum RCF	36960xg with 12x1.5/2.0 ml , 3720Xg 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)
Rotor Identification	Auto-ID Instant, immediately upon rotor insertion
Program Storage	1000 user-defined
Overall Dimension	26.8x23.6x16.5 in / 68x60x42 mm
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	Rotor Capacity	Max Speed (rpm)	Max RCF(g)
2502218008	No. 1 Fixed-Angle Rotor	12x1.5/2.0 ml(with adapters for 0.2/0.5ml tube)	23000 rpm	36960g
2502218009	No. 2 Fixed-Angle Rotor	12x5 ml	18000 rpm	26260g
2502218010	No. 3.1 Fixed-Angle Rotor	24x1.5/2.0 ml(with adapters for 0.2/0.5ml tube)	16500 rpm	26360g
2502218011	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	31370g
2502218012	No. 4.1 Fixed-Angle Rotor	12x10 ml	15500 rpm	22100g
2502218013	No. 4.2 Fixed-Angle Rotor	36x1.5/2.0 ml(with adapters for 0.2/0.5ml tube)	15000 rpm	21760g
2502218014	No. 5.1 Fixed-Angle Rotor	6x50 ml (conical)	13000 rpm	18420g
2502218015	adapters		13000 rpm	18420g
2502218016	adapters		13000 rpm	18420g
2502218017	adapters		13000 rpm	18420g
2502218018	adapters		13000 rpm	18420g
2502218019	adapters		13000 rpm	18420g
2502218020	adapters		13000 rpm	18420g
2502218021	adapters		13000 rpm	18420g
2502218022	adapters		13000 rpm	18420g
2502218023	adapters		13000 rpm	18420g
2502218024	adapters		13000 rpm	18420g
2502218025	No. 5.2 Fixed-Angle Rotor	48x1.5/2.0 ml(with adapters for 0.2/0.5ml tube)	13000 rpm	18515g
2502218026	No. 5.3 Fixed-Angle Rotor	6x50 ml (round bottom)	13000 rpm	19865g
2502218027	adapters		13000 rpm	19865g
2502218028	adapters		13000 rpm	19865g
2502218029	adapters		13000 rpm	19865g
2502218030	adapters		13000 rpm	19865g
2502218031	adapters		13000 rpm	19865g
2502218032	adapters		13000 rpm	19865g
2502218033	adapters		13000 rpm	19865g
2502218034	adapters		13000 rpm	19865g
2502218035	adapters		13000 rpm	19865g
2502218036	No. 6.1 Fixed-Angle Rotor	4x100 ml	12000 rpm	15890g
2502218037	adapters		12000 rpm	15890g
2502218038	adapters		12000 rpm	15890g
2502218039	adapters		12000 rpm	15890g
2502218040	adapters		12000 rpm	15890g
2502218041	adapters		12000 rpm	15890g
2502218042	adapters		12000 rpm	15890g
2502218043	adapters		12000 rpm	15890g
2502218044	adapters		12000 rpm	15890g

2502218045	adapters		12000 rpm	15890g
2502218046	adapters		12000 rpm	15890g
2502218047	adapters		12000 rpm	15890g
2502218048	adapters		12000 rpm	15890g
2502218049	No. 6.2 Fixed-Angle Rotor	8x50 ml (conical)	12000 rpm	16695g
2502218050	adapters		12000 rpm	16695g
2502218051	adapters		12000 rpm	16695g
2502218052	adapters		12000 rpm	16695g
2502218053	adapters		12000 rpm	16695g
2502218054	adapters		12000 rpm	16695g
2502218055	adapters		12000 rpm	16695g
2502218056	adapters		12000 rpm	16695g
2502218057	adapters		12000 rpm	16695g
2502218058	adapters		12000 rpm	16695g
2502218059	adapters		12000 rpm	16695g
2502218060	No. 6.3 Fixed-Angle Rotor	12x15 ml	13000 rpm	18650g
2502218061	adapters		13000 rpm	18650g
2502218062	adapters		13000 rpm	18650g
2502218063	adapters		13000 rpm	18650g
2502218064	adapters		13000 rpm	18650g
2502218065	adapters		13000 rpm	18650g
2502218066	adapters		13000 rpm	18650g
2502218067	No. 6.4 Fixed-Angle Rotor	8x50 ml (round bottom)	12000 rpm	15890g
2502218068	adapters		12000 rpm	15890g
2502218069	adapters		12000 rpm	15890g
2502218070	adapters		12000 rpm	15890g
2502218071	adapters		12000 rpm	15890g
2502218072	adapters		12000 rpm	15890g
2502218073	adapters		12000 rpm	15890g
2502218074	adapters		12000 rpm	15890g
2502218075	adapters		12000 rpm	15890g
2502218076	adapters		12000 rpm	15890g
2502218077	No. 6.5 Fixed-Angle Rotor	24x10 ml	11000 rpm	13350g
2502218078	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
2502218079	No. 8 Swing-Bucket Rotor Rotor Cross		4500 rpm	3720g
2502218080	250ml Round Buckets	4x250 ml	4500 rpm	3720g
2502218081	adapters	4x100 ml	4500 rpm	3720g
2502218082	adapters	4x50 ml	4500 rpm	3720g
2502218083	adapters	8x50 ml (conical)	4500 rpm	3720g
2502218084	adapters	8x50 ml (round bottom)	4500 rpm	3720g
2502218085	adapters	8x30 ml	4500 rpm	3720g
2502218086	adapters	20x15 ml	4500 rpm	3720g
2502218087	adapters	36x10 ml	4500 rpm	3720g
2502218088	adapters	20x5 ml (conical)	4500 rpm	3720g
2502218089	adapters	32x1.5/2.0 ml	4500 rpm	3720g
2502218090	adapters	32x2.0 ml	4500 rpm	3720g

2502218091	adapters	40x0.5 ml	4500 rpm	3720g
2502218092	adapters	20x10 ml virus sampling tube	4500 rpm	3720g
2502218093	adapters	28x4-10 ml blood collection / urine tube	4500 rpm	3720g
2502218094	adapters	40x1.6-7 ml blood collection / urine tube	4500 rpm	3720g
2502218095	Conical Buckets	4x175/225 ml Falcon conical bottle	4500 rpm	3720g
2502218096	Buckets	48x1.6-7 ml blood collection / urine tube	4000 rpm	3100g
2502218097	Buckets	64x1.6-7 ml blood collection / urine tube	4000 rpm	3100g
2502218098	No. 9-1 Swing-Bucket Rotor Rotor Cross		4200 rpm	3550g
2502218099	500ml Round Buckets	4x500 ml	4200 rpm	3550g
2502218100	Aerosol-tight lids for 500ml Round Buckets		4200 rpm	3550g
2502218101	adapters	4x250 ml	4200 rpm	3550g
2502218102	adapters	4x175/225 ml Falcon conical bottle	4200 rpm	3550g
2502218103	adapters	4x100 ml	4200 rpm	3550g
2502218104	adapters	16x50 ml (conical)	4200 rpm	3550g
2502218105	adapters	16x50 ml (round bottom)	4200 rpm	3550g
2502218106	adapters	16x30 ml	4200 rpm	3550g
2502218107	adapters	36x15 ml	4200 rpm	3550g
2502218108	adapters	56x10 ml	4200 rpm	3550g
2502218109	adapters	36x5 ml (conical)	4200 rpm	3550g
2502218110	adapters	80x1.5/2.0 ml	4200 rpm	3550g
2502218111	adapters	60x2.0 ml	4200 rpm	3550g
2502218112	adapters	80x0.5 ml	4200 rpm	3550g
2502218113	adapters	36x10 ml virus sampling tube	4200 rpm	3550g
2502218114	adapters	56x4-10 ml blood collection / urine tube	4200 rpm	3550g
2502218115	adapters	72x1.6-7 ml blood collection / urine tube	4200 rpm	3550g
2502218116	Rectangular Buckets		4200 rpm	3550g
2502218117	adapters	20x50 ml (conical)	4200 rpm	3550g
2502218118	adapters	20x50 ml (round bottom)	4200 rpm	3550g
2502218119	adapters	20x30 ml	4200 rpm	3550g
2502218120	adapters	40x15 ml	4200 rpm	3550g
2502218121	adapters	40x5 ml (conical)	4200 rpm	3550g
2502218122	adapters	100x1.5/2.0 ml	4200 rpm	3550g
2502218123	adapters	100x2.0 ml	4200 rpm	3550g
2502218124	adapters	80x4-10 ml blood collection / urine tube	4200 rpm	3550g
2502218125	adapters	112x1.6-7 ml blood collection / urine tube	4200 rpm	3550g
2502218126	Round Buckets	148x5 ml Radio-immunity tube	4200 rpm	3550g
2502218127	Round Buckets	96x1.6-7 ml blood collection / urine tube	4200 rpm	3550g
2502218128	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
2502218129	No. 9-2 Swing-Bucket Rotor	4x250 ml Corning conical bottle or 4x200 ml Nunc bottle	4200 rpm	3550g
2502218130	No. 10-1 Swing-Bucket Rotor	4x750 ml	4000 rpm	3500g
2502218131	adapters	4x500 ml	4000 rpm	3500g
2502218132	adapters	4x250 ml	4000 rpm	3500g
2502218133	adapters	4x175/225 ml Falcon conical bottle	4000 rpm	3500g
2502218134	adapters	12x100 ml	4000 rpm	3500g

2502218135	adapters	20x50 ml (conical)	4000 rpm	3500g
2502218136	adapters	20x50 ml (round bottom)	4000 rpm	3500g
2502218137	adapters	20x30 ml	4000 rpm	3500g
2502218138	adapters	56x15 ml	4000 rpm	3500g
2502218139	adapters	72x10 ml	4000 rpm	3500g
2502218140	adapters	56x5 ml (conical)	4000 rpm	3500g
2502218141	adapters	88x1.5/2.0 ml	4000 rpm	3500g
2502218142	adapters	88x2.0 ml	4000 rpm	3500g
2502218143	adapters	96x0.5 ml	4000 rpm	3500g
2502218144	adapters	76x4-10 ml blood collection / urine tube	4000 rpm	3500g
2502218145	adapters	96x1.6-7 ml blood collection / urine tube	4000 rpm	3500g
2502218146	adapters	148x5 ml Radio-immunity tube	4000 rpm	3500g
2502218147	adapters	4x30/50 ml Falcon Cell Culture Flasks or 4x30/50 ml Corning Cell Culture Flasks	4000 rpm	3500g
2502218148	adapters	4x40 ml Nunc Cell Culture Flasks	4000 rpm	3500g
2502218149	adapters	4x160 ml Nunc Cell Culture Flasks	4000 rpm	3500g
2502218150	adapters	4x200 ml Falcon Cell Culture Flasks or 4x200 ml Greiner Cell Culture Flasks or 4x200 ml Nunc Cell Culture Flasks	4000 rpm	3500g
2502218151	No. 10-2 Swing-Bucket Rotor	4x500 ml Corning conical bottle	4000 rpm	3500g
2502218152	No. 11 Fixed-Angle Rotor	6x100 ml	10000 rpm	12060g
2502218153	adapters		10000 rpm	12060g
2502218154	adapters		10000 rpm	12060g
2502218155	adapters		10000 rpm	12060g
2502218156	adapters		10000 rpm	12060g
2502218157	adapters		10000 rpm	12060g
2502218158	adapters		10000 rpm	12060g
2502218159	adapters		10000 rpm	12060g
2502218160	adapters		10000 rpm	12060g
2502218161	adapters		10000 rpm	12060g
2502218162	adapters		10000 rpm	12060g
2502218163	adapters		10000 rpm	12060g
2502218164	adapters		10000 rpm	12060g
2502218165	No. 12 Fixed-Angle Rotor	8x15 ml	14500 rpm	18570g
2502218166	adapters		14500 rpm	18570g
2502218167	adapters		14500 rpm	18570g
2502218168	adapters		14500 rpm	18570g
2502218169	adapters		14500 rpm	18570g
2502218170	adapters		14500 rpm	18570g
2502218171	adapters		14500 rpm	18570g
2502218172	No. 13 Fixed-Angle Rotor	12x50 ml (conical)	10000 rpm	14310g
2502218173	adapters		10000 rpm	14310g
2502218174	adapters		10000 rpm	14310g
2502218175	adapters		10000 rpm	14310g
2502218176	adapters		10000 rpm	14310g
2502218177	adapters		10000 rpm	14310g
2502218178	adapters		10000 rpm	14310g
2502218179	adapters		10000 rpm	14310g

2502218180	adapters		10000 rpm	14310g
2502218181	adapters		10000 rpm	14310g
2502218182	adapters		10000 rpm	14310g



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