

# BENCHTOP REFRIGERATED CENTRIFUGE LTCEN22-10



# BENCHTOP REFRIGERATED CENTRIFUGE

## LTCEN22-10

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.

## LTCEN22-10 BENCHTOP REFRIGERATED CENTRIFUGE

LCD display

Microprocessor controller

Inner chamber material: Stainless Steel

Electronic door interlock

Automatic rotor identification

Brushless DC motor

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	LTCEN22-10
Maximum Capacity (No of tubes x Vol.)	6x100 ml , 4x500 ml
Temperature Range	-20°C to 40°C
Temperature Accuracy	± 1°C
Maximum Speed	19000 rpm with 12 x 1.5/2.0 ml , 4500 rpm with 4x250 ml rotor
Speed Accuracy	± 10 rpm
Maximum RCF	29990Xg with 24x1.5/2.0 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
Noise Level	≤ 56 dB(A)
Overall Dimension	26.8x23.6x16.5 in / 68x60x42 mm

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)
2502217008	No. 1 Fixed-Angle Rotor	12x1.5/2.0 ml(with adapters for 0.2/0.5ml tube)	19000 rpm	25220g
2502217009	No. 2 Fixed-Angle Rotor	12x5 ml	17000 rpm	23460g
2502217010	No. 3-1 Fixed-Angle Rotor	24x1.5/2.0 ml(with adapters for 0.2/0.5ml tube)	16000 rpm	24790g
2502217011	No. 3-2 Fixed-Angle Rotor	24x1.5/2.0 ml (with adapters for 0.2/0.5ml tube)(rotor with Aerosol-tight lid)	17600 rpm	29990g
2502217012	No. 4-1 Fixed-Angle Rotor	12x10 ml	14000 rpm	18120g
2502217013	No. 4-2 Fixed-Angle Rotor	36x1.5/2.0 ml(with adapters for 0.2/0.5ml tube)	14000 rpm	18960g
2502217014	No. 4-3 Fixed-Angle Rotor	8x15 ml	14000 rpm	17310g
2502217015	adapters		14000 rpm	17310g
2502217016	adapters		14000 rpm	17310g
2502217017	adapters		14000 rpm	17310g
2502217018	adapters		14000 rpm	17310g
2502217019	adapters		14000 rpm	17310g
2502217020	adapters		14000 rpm	17310g
2502217021	No. 5-1 Fixed-Angle Rotor	6x50 ml (conical)	13000 rpm	18420g
2502217022	adapters		13000 rpm	18420g
2502217023	adapters		13000 rpm	18420g
2502217024	adapters		13000 rpm	18420g
2502217025	adapters		13000 rpm	18420g
2502217026	adapters		13000 rpm	18420g
2502217027	adapters		13000 rpm	18420g
2502217028	adapters		13000 rpm	18420g
2502217029	adapters		13000 rpm	18420g
2502217030	adapters		13000 rpm	18420g
2502217031	adapters		13000 rpm	18420g
2502217032	No. 5-2 Fixed-Angle Rotor	48x1.5/2.0 ml(with adapters for 0.2/0.5ml tube)	13000 rpm	18520g
2502217033	No. 5-3 Fixed-Angle Rotor	6x50 ml (round bottom)	13000 rpm	18420g
2502217034	adapters		13000 rpm	18420g
2502217035	adapters		13000 rpm	18420g
2502217036	adapters		13000 rpm	18420g
2502217037	adapters		13000 rpm	18420g
2502217038	adapters		13000 rpm	18420g
2502217039	adapters		13000 rpm	18420g
2502217040	adapters		13000 rpm	18420g
2502217041	adapters		13000 rpm	18420g
2502217042	adapters		13000 rpm	18420g
2502217043	No. 6-1 Fixed-Angle Rotor	6x50 ml (round bottom)	11000 rpm	13350g

2502217044	adapters		11000 rpm	13350g
2502217045	adapters		11000 rpm	13350g
2502217046	adapters		11000 rpm	13350g
2502217047	adapters		11000 rpm	13350g
2502217048	adapters		11000 rpm	13350g
2502217049	adapters		11000 rpm	13350g
2502217050	adapters		11000 rpm	13350g
2502217051	adapters		11000 rpm	13350g
2502217052	adapters		11000 rpm	13350g
2502217053	adapters		11000 rpm	13350g
2502217054	adapters		11000 rpm	13350g
2502217055	adapters		11000 rpm	13350g
2502217056	No. 6-2 Fixed-Angle Rotor	8x50 ml (conical)	11000 rpm	14030g
2502217057	adapters		11000 rpm	14030g
2502217058	adapters		11000 rpm	14030g
2502217059	adapters		11000 rpm	14030g
2502217060	adapters		11000 rpm	14030g
2502217061	adapters		11000 rpm	14030g
2502217062	adapters		11000 rpm	14030g
2502217063	adapters		11000 rpm	14030g
2502217064	adapters		11000 rpm	14030g
2502217065	adapters		11000 rpm	14030g
2502217066	adapters		11000 rpm	14030g
2502217067	No. 6-3 Fixed-Angle Rotor	12x15 ml	12000 rpm	15890g
2502217068	adapters		12000 rpm	15890g
2502217069	adapters		12000 rpm	15890g
2502217070	adapters		12000 rpm	15890g
2502217071	adapters		12000 rpm	15890g
2502217072	adapters		12000 rpm	15890g
2502217073	adapters		12000 rpm	15890g
2502217074	No. 6-4 Fixed-Angle Rotor	8x50 ml (round bottom)	11000 rpm	13350g
2502217075	adapters		11000 rpm	13350g
2502217076	adapters		11000 rpm	13350g
2502217077	adapters		11000 rpm	13350g
2502217078	adapters		11000 rpm	13350g
2502217079	adapters		11000 rpm	13350g
2502217080	adapters		11000 rpm	13350g
2502217081	adapters		11000 rpm	13350g
2502217082	adapters		11000 rpm	13350g
2502217083	adapters		11000 rpm	13350g
2502217084	No. 6-5 Fixed-Angle Rotor	24x10 ml	11000 rpm	13350g
2502217085	No. 7 Fixed-Angle Rotor	6x10 ml	16000 rpm	18980g
2502217086	No. 8 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
2502217087	No. 9 Swing-Bucket Rotor Rotor Cross		4500 rpm	3720g
2502217088	250ml Round Buckets	4x250 ml	4500 rpm	3720g
2502217089	adapters	4x100 ml	4500 rpm	3720g

2502217090	adapters	4x50 ml	4500 rpm	3720g
2502217091	adapters	8x50 ml (conical)	4500 rpm	3720g
2502217092	adapters	8x50 ml (round bottom)	4500 rpm	3720g
2502217093	adapters	8x30 ml	4500 rpm	3720g
2502217094	adapters	20x15 ml	4500 rpm	3720g
2502217095	adapters	36x10 ml	4500 rpm	3720g
2502217096	adapters	20x5 ml (conical)	4500 rpm	3720g
2502217097	adapters	32x1.5/2.0 ml	4500 rpm	3720g
2502217098	adapters	32x2.0 ml	4500 rpm	3720g
2502217099	adapters	40x0.5 ml	4500 rpm	3720g
2502217100	adapters	20x10 ml virus sampling tube	4500 rpm	3720g
2502217101	adapters	28x4-10 ml blood collection / urine tube	4500 rpm	3720g
2502217102	adapters	40x1.6-7 ml blood collection / urine tube	4500 rpm	3720g
2502217103	Conical Buckets	4x175/225 ml Falcon conical bottle	4500 rpm	3720g
2502217104	Buckets	36x4-10 ml blood collection /urine tube	4500 rpm	3100g
2502217105	Buckets	48x1.6-7 ml blood collection / urine tube	4500 rpm	3100g
2502217106	Buckets	64x1.6-7 ml blood collection / urine tube	4500 rpm	3100g
2502217107	No. 10-1 Swing-Bucket Rotor Rotor Cross		4200 rpm	3550g
2502217108	500ml Round Buckets	4x500 ml	4200 rpm	3550g
2502217109	Aerosol-tight lids for 500ml Round Buckets		4200 rpm	3550g
2502217111	adapters	4x250 ml	4200 rpm	3550g
2502217112	adapters	4x175/225 ml Falcon conical bottle	4200 rpm	3550g
2502217113	adapters	4x100 ml	4200 rpm	3550g
2502217114	adapters	16x50 ml (conical)	4200 rpm	3550g
2502217115	adapters	16x50 ml (round bottom)	4200 rpm	3550g
2502217116	adapters	16x30 ml	4200 rpm	3550g
2502217117	adapters	36x15 ml	4200 rpm	3550g
2502217118	adapters	56x10 ml	4200 rpm	3550g
2502217119	adapters	36x5 ml (conical)	4200 rpm	3550g
2502217120	adapters	80x1.5/2.0 ml	4200 rpm	3550g
2502217121	adapters	60x2.0 ml	4200 rpm	3550g
2502217122	adapters	80x0.5 ml	4200 rpm	3550g
2502217123	adapters	36x10 ml virus sampling tube	4200 rpm	3550g
2502217124	adapters	56x4-10 ml blood collection / urine tube	4200 rpm	3550g
2502217125	adapters	72x1.6-7 ml blood collection / urine tube	4200 rpm	3550g
2502217126	Rectangular Buckets		4200 rpm	3550g
2502217127	adapters	20x50 ml (conical)	4200 rpm	3550g
2502217128	adapters	20x50 ml (round bottom)	4200 rpm	3550g
2502217129	adapters	20x30 ml	4200 rpm	3550g
2502217130	adapters	40x15 ml	4200 rpm	3550g
2502217131	adapters	40x5 ml (conical)	4200 rpm	3550g
2502217132	adapters	100x1.5/2.0 ml	4200 rpm	3550g
2502217133	adapters	100x2.0 ml	4200 rpm	3550g
2502217134	adapters	80x4-10 ml blood collection / urine tube	4200 rpm	3550g
2502217135	adapters	112x1.6-7 ml blood collection / urine tube	4200 rpm	3550g

2502217136	Round Buckets	148x5 ml Radio-immunity tube	4200 rpm	3550g
2502217137	Round Buckets	96x1.6-7 ml blood collection / urine tube	4200 rpm	3550g
2502217138	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
2502217139	No. 10-2 Swing-Bucket Rotor	4x250 ml Corning conical bottle or 4x200 ml Nunc bottle	4200 rpm	3550g
2502217140	No. 11 Fixed-Angle Rotor	6x100 ml	10000 rpm	12060g
2502217141	adapters		10000 rpm	12060g
2502217142	adapters		10000 rpm	12060g
2502217143	adapters		10000 rpm	12060g
2502217144	adapters		10000 rpm	12060g
2502217145	adapters		10000 rpm	12060g
2502217146	adapters		10000 rpm	12060g
2502217147	adapters		10000 rpm	12060g
2502217148	adapters		10000 rpm	12060g
2502217149	adapters		10000 rpm	12060g
2502217150	adapters		10000 rpm	12060g
2502217151	adapters		10000 rpm	12060g
2502217152	adapters		10000 rpm	12060g



**Labtare Analytical Instruments**

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