

# FLOOR MODEL REFRIGERATED CENTRIFUGE LTCEN15-15



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## LTCEN15-15

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.

## LTCEN15-15 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	LTCEN15-15
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 , 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 , 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)
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	26.8 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)
2501522008	No. 1 Fixed-Angle Rotor	12x1.5/2.0 ml(with adapters for 0.2/0.5ml tube)	22000 rpm	33820g
2501522009	No. 2 Fixed-Angle Rotor	12x5 ml	17000 rpm	23460g
2501522010	No. 3-1 Fixed-Angle Rotor	24x1.5/2.0 ml(with adapters for 0.2/0.5ml tube)	16500 rpm	26360g
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
2501522012	No. 4-1 Fixed-Angle Rotor	12x10 ml	15000 rpm	20800g
2501522013	No. 4-2 Fixed-Angle Rotor	36x1.5/2.0 ml(with adapters for 0.2/0.5ml tube)	15000 rpm	20800g
2501522014	No. 4-3 Fixed-Angle Rotor	8x15 ml	15000 rpm	20800g
2501522015	adapters		15000 rpm	20800g
2501522016	adapters		15000 rpm	20800g
2501522017	adapters		15000 rpm	20800g
2501522018	adapters		15000 rpm	20800g
2501522019	adapters		15000 rpm	20800g
2501522020	adapters		15000 rpm	20800g
2501522021	No. 5-1 Fixed-Angle Rotor	6x50 ml (conical)	13000 rpm	18420g
2501522022	adapters		13000 rpm	18420g
2501522023	adapters		13000 rpm	18420g
2501522024	adapters		13000 rpm	18420g
2501522025	adapters		13000 rpm	18420g
2501522026	adapters		13000 rpm	18420g
2501522027	adapters		13000 rpm	18420g
2501522028	adapters		13000 rpm	18420g
2501522029	adapters		13000 rpm	18420g
2501522030	adapters		13000 rpm	18420g
2501522031	adapters		13000 rpm	18420g
2501522032	No. 5-2 Fixed-Angle Rotor	48x1.5/2.0 ml(with adapters for 0.2/0.5ml tube)	13000 rpm	18420g
2501522033	No. 5-3 Fixed-Angle Rotor	6x50 ml (round bottom)	13000 rpm	18420g
2501522034	adapters		13000 rpm	18420g
2501522035	adapters		13000 rpm	18420g
2501522036	adapters		13000 rpm	18420g
2501522037	adapters		13000 rpm	18420g
2501522038	adapters		13000 rpm	18420g
2501522039	adapters		13000 rpm	18420g

2501522040	adapters		13000 rpm	18420g
2501522041	adapters		13000 rpm	18420g
2501522042	adapters		13000 rpm	18420g
2501522043	No. 6-1 Fixed-Angle Rotor	4x100 ml	11000 rpm	13350g
2501522044	adapters		11000 rpm	13350g
2501522045	adapters		11000 rpm	13350g
2501522046	adapters		11000 rpm	13350g
2501522047	adapters		11000 rpm	13350g
2501522048	adapters		11000 rpm	13350g
2501522049	adapters		11000 rpm	13350g
2501522050	adapters		11000 rpm	13350g
2501522051	adapters		11000 rpm	13350g
2501522052	adapters		11000 rpm	13350g
2501522053	adapters		11000 rpm	13350g
2501522054	adapters		11000 rpm	13350g
2501522055	adapters		11000 rpm	13350g
2501522056	No. 6-2 Fixed-Angle Rotor	8x50 ml (conical)	11000 rpm	13350g
2501522057	adapters		11000 rpm	13350g
2501522058	adapters		11000 rpm	13350g
2501522059	adapters		11000 rpm	13350g
2501522060	adapters		11000 rpm	13350g
2501522061	adapters		11000 rpm	13350g
2501522062	adapters		11000 rpm	13350g
2501522063	adapters		11000 rpm	13350g
2501522064	adapters		11000 rpm	13350g
2501522065	adapters		11000 rpm	13350g
2501522066	adapters		11000 rpm	13350g
2501522067	No. 6-3 Fixed-Angle Rotor	12x15 ml	13000 rpm	18650g
2501522068	7171506.3FA1		13000 rpm	18650g
2501522069	7171506.3FA1		13000 rpm	18650g
2501522070	7171506.3FA1		13000 rpm	18650g
2501522071	7171506.3FA1		13000 rpm	18650g
2501522072	7171506.3FA1		13000 rpm	18650g
2501522073	7171506.3FA1		13000 rpm	18650g
2501522074	No. 6-4 Fixed-Angle Rotor	8x50 ml (round bottom)	11000 rpm	13350g
2501522075	adapters		11000 rpm	13350g
2501522076	adapters		11000 rpm	13350g
2501522077	adapters		11000 rpm	13350g
2501522078	adapters		11000 rpm	13350g
2501522079	adapters		11000 rpm	13350g
2501522080	adapters		11000 rpm	13350g
2501522081	adapters		11000 rpm	13350g
2501522082	adapters		11000 rpm	13350g
2501522083	adapters		11000 rpm	13350g
2501522084	No. 6-5 Fixed-Angle Rotor	24x10 ml	11000 rpm	13350g
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

2501522086	No. 8 Swing-Bucket Rotor Rotor Cross		4500 rpm	3720g
2501522087	250ml Round Buckets	4x250 ml	4500 rpm	3720g
2501522088	adapters	4x100 ml	4500 rpm	3720g
2501522089	adapters	4x50 ml	4500 rpm	3720g
2501522090	adapters	8x50 ml (conical)	4500 rpm	3720g
2501522091	adapters	8x50 ml (round bottom)	4500 rpm	3720g
2501522092	adapters	8x30 ml	4500 rpm	3720g
2501522093	adapters	20x15 ml	4500 rpm	3720g
2501522094	adapters	36x10 ml	4500 rpm	3720g
2501522095	adapters	20x5 ml (conical)	4500 rpm	3720g
2501522096	adapters	32x1.5/2.0 ml	4500 rpm	3720g
2501522097	adapters	32x2.0 ml	4500 rpm	3720g
2501522098	adapters	40x0.5 ml	4500 rpm	3720g
2501522099	adapters	20x10 ml virus sampling tube	4500 rpm	3720g
2501522100	adapters	28x4 -10 ml blood collection / urine tube	4500 rpm	3720g
2501522101	adapters	40x1.6 -7 ml blood collection / urine tube	4500 rpm	3720g
2501522102	Conical Buckets	4x175/225 ml Falcon conical bottle	4500 rpm	3720g
2501522103	Buckets	36x4 -10 ml blood collection / urine tube	4000 rpm	3100g
2501522104	Buckets	48x1.6 -7 ml blood collection / urine tube	4000 rpm	3100g
2501522105	Buckets	64x1.6 -7 ml blood collection / urine tube	4000 rpm	3100g
2501522106	No. 9-1 Swing-Bucket Rotor Rotor Cross		4200 rpm	3550g
18708857107	500ml Round Buckets	4x500 ml	4200 rpm	3550g
18708857108	Aerosol-tight lids for 500ml Round Buckets		4200 rpm	3550g
18708857109	adapters	4x250 ml	4200 rpm	3550g
18708857110	adapters	4x175/225 ml Falcon conical bottle	4200 rpm	3550g
18708857111	adapters	4x100 ml	4200 rpm	3550g
18708857112	adapters	16x50 ml (conical)	4200 rpm	3550g
18708857113	adapters	16x50 ml (round bottom)	4200 rpm	3550g
18708857114	adapters	16x30 ml	4200 rpm	3550g
18708857115	adapters	36x15 ml	4200 rpm	3550g
18708857116	adapters	56x10 ml	4200 rpm	3550g
18708857117	adapters	36x5 ml (conical)	4200 rpm	3550g
18708857118	adapters	80x1.5/2.0 ml	4200 rpm	3550g
18708857119	adapters	60x2.0 ml	4200 rpm	3550g
18708857120	adapters	80x0.5 ml	4200 rpm	3550g
18708857121	adapters	36x10 ml virus sampling tube	4200 rpm	3550g
18708857122	adapters	56x4 -10 ml blood collection / urine tube	4200 rpm	3550g
18708857123	adapters	72x1.6 -7 ml blood collection / urine tube	4200 rpm	3550g
18708857124	Rectangular Buckets		4200 rpm	3550g
18708857125	adapters	20x50 ml (conical)	4200 rpm	3550g
18708857126	adapters	20x50 ml (round bottom)	4200 rpm	3550g
18708857127	adapters	20x30 ml (conical)	4200 rpm	3550g
18708857128	adapters	40x15 ml (conical)	4200 rpm	3550g
18708857129	adapters	40x5 ml (conical)	4200 rpm	3550g
18708857130	adapters	100x1.5/2.0 ml	4200 rpm	3550g

18708857131	adapters	100x2.0 ml	4200 rpm	3550g
18708857132	adapters	80x4 -10 ml blood collection / urine tube	4200 rpm	3550g
18708857133	adapters	80x4-10 ml blood collection / urine tube	4200 rpm	3550g
18708857134	Round Buckets	148x5 ml Radio-immunity tube	4200 rpm	3550g
18708857135	Round Buckets	96x1.6-7 ml blood collection / urine tube	4200 rpm	3550g
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
18708857137	No. 9-2 Swing-Bucket Rotor	4x250 ml Corning conical bottle or 4 x 200 ml Nunc bottle	4200 rpm	3550g
18708857138	No. 10-1 Swing-Bucket Rotor	4x750 ml	4000 rpm	3500g
18708857139	adapters	4x500 ml	4000 rpm	3500g
18708857140	adapters	4x250 ml	4000 rpm	3500g
18708857141	adapters	4x175/225 ml Falcon conical bottle	4000 rpm	3500g
18708857142	adapters	12x100 ml	4000 rpm	3500g
18708857143	adapters	20x50 ml (conical)	4000 rpm	3500g
18708857144	adapters	20x50 ml (round bottom)	4000 rpm	3500g
18708857145	adapters	20x30 ml	4000 rpm	3500g
18708857146	adapters	56x15 ml	4000 rpm	3500g
18708857147	adapters	72x10 ml	4000 rpm	3500g
18708857148	adapters	56x5 ml (conical)	4000 rpm	3500g
18708857149	adapters	88x1.5/2.0 ml	4000 rpm	3500g
18708857150	adapters	88x2.0 ml	4000 rpm	3500g
18708857151	adapters	96x0.5 ml	4000 rpm	3500g
18708857152	adapters	72x4-10 ml blood collection / urine tube	4000 rpm	3500g
18708857153	adapters	96x1.6-7 ml blood collection / urine tube	4000 rpm	3500g
18708857154	adapters	148x5 ml Radio-immunity tube	4000 rpm	3500g
18708857155	adapters	4x30/50 ml Falcon Cell Culture Flasks or 4x30/50 ml Corning Cells Culture Flasks	4000 rpm	3500g
18708857156	adapters	4x40 ml Nunc Cell Culture Flasks	4000 rpm	3500g
18708857157	adapters	4x160 ml Nunc Cell Culture Flasks	4000 rpm	3500g
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
18708857159	No. 10-2 Swing-Bucket Rotor	4x500 ml Corning conical bottle	4000 rpm	3500g
18708857160	No. 11 Fixed-Angle Rotor	12x50 ml (conical)	10000 rpm	14310g
18708857161	adapters		10000 rpm	14310g
18708857162	adapters		10000 rpm	14310g
18708857163	adapters		10000 rpm	14310g
18708857164	adapters		10000 rpm	14310g
18708857165	adapters		10000 rpm	14310g
18708857166	adapters		10000 rpm	14310g
18708857167	adapters		10000 rpm	14310g
18708857168	adapters		10000 rpm	14310g
18708857169	adapters		10000 rpm	14310g
18708857170	adapters		10000 rpm	14310g



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