

MICROCENTRIFUGES



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Microcentrifuges are the mini version of the centrifuges which use small sample sizes like microtubes. As the name of the device indicates, they come in smaller kits which are ideal for the needs of HPLC samples and micro filter cell separations. The tubes used in it range from 0.2 ml to 5 ml. It operates at high speed and has interchangeable rotors. In microcentrifuges, loads of the same weight are kept in opposite directions and must have a center of gravity. Used in Molecular Biology Separations, Clinical, Labs, Biochemistry, Tissue Culture, Genomics, Drug discover. Also known as Microfuges, Refrigerated Microcentrifuges, Laboratory Microcentrifuges.

LTCEN24 REFRIGERATED MICROCENTRIFUGE

Microprocessor controller

LCD display

RCF can be set up directly, without RPM to RCF translation

Memory of 9 programs

9 levels of acceleration and 9 levels of deceleration

Servomotor was adopted for lid open & lid lock, emergency lid release.

Aerosol-tight quick lock rotors for safe centrifugation of hazardous samples

Inner chamber material: Stainless Steel

Rotors are in aeronautical aluminum material

Electronic door interlock and Automatic rotor identification and Imbalance protection

Faults are diagnosed automatically, display fault code.

Ergonomic operating and information panel.

CFC-free refrigerants system (TECUMSEH EUROPE COMPRESSOR), with both pre-cooling and standstill cooling function.



SPECIFICATIONS

Model	LTCEN24-2	LTCEN24-3
Maximum Capacity (No of tubes x Vol.)		12x5 ml
Temp. Control Range	-10°C to 35°C	-
Temperature Accuracy		± 1°C
Maximum Speed	14000 rpm	15000 rpm
Speed Accuracy		± 10 rpm
Maximum RCF	18880xg with 24x1.5/2.0 ml rotor / 4 x PCR-strips rotor	21630xg with 24x1.5/2.0 ml rotor / 4 x PCR-strips rotor
Time Range		Count up or down
Acceleration Rate		10
Deceleration Rate		10
Refrigeration System		CFC-Free
Control System		Microprocessor
Display		Full color touchscreen interface
Programmability		via easy access touchscreen menu
Drive System		Direct, induction motor drive
Overall Dimension		11.2x15.7x11.2 in / 28.5x40x28.5 mm
Program Storage	16 user-defined	-
Noise Level	≤ 56 dB(A)	≤ 58 dB(A)

Weight (Net/Gross)	20 kg	21 kg
Max. Power Consumption	800 W	
Power Supply	AC 200-240V, 50/60Hz or AC 100-127V, 50/60Hz	
Temperature Range	-	-10°C to 35°C
Rotor Identification	-	Auto-ID Instant, immediately upon rotor insertion
Program	-	16 user-defined

OPTIONAL ACCESSORIES

Accessory Code	Name	Rotor Capacity	Max Speed (rpm)	Max RCF(g)	For Models
2502409008	No. 1 Fixed-Angle Rotor	24x1.5/2.0 ml(with adapters for 0.2/0.5ml tube)	14000 rpm	18880Xg	LTCEN24-2
2502409009	No. 2 Fixed-Angle Rotor	4xPCR-Strips	14000 rpm	18880Xg	LTCEN24-2
2502409010	No. 3 Fixed-Angle Rotor	12x5 ml	14000 rpm	15880Xg	LTCEN24-2
2502410008	No. 1 Fixed-Angle Rotor	24x1.5/2.0 ml(with adapters for 0.2/0.5ml tube)	15000 rpm	21630Xg	LTCEN24-3
2502410009	No. 2 Fixed-Angle Rotor	4xPCR-Strips	15000 rpm	21630Xg	LTCEN24-3
2502410010	No. 3 Fixed-Angle Rotor	12x5 ml	15000 rpm	18270Xg	LTCEN24-3



LTCEN24-2



LTCEN24-3

LTCEN24-4 REFRIGERATED MICROCENTRIFUGE

- Sensitive samples are protected by Soft-brake function
- LCD display
- Separate short-spin key for quick centrifugation
- Autoclavable rotors
- Temperature reaches +4 at Maximum speed
- FastTemp function ensures quick pre-cooling of the machine



SPECIFICATIONS

Model	LTCEN24-4
Maximum Capacity (No of tubes x Vol.)	24x1.5/2 ml
Temperature Range	-10°C to 40°C
Maximum Speed	500-15000

Maximum RCF	21400xg
Time Range	1s ~ 99 min 59S
Acceleration/ Deceleration	15s115s↓
Temperature Control at 4°C	± 2°C
Overall Dimension	300x500x320 mm
Weight (Net/Gross)	28 kg
Power	500 W
Power Supply	AC100-120V/AC200-240V 50-60Hz

OPTIONAL ACCESSORIES

Accessory Code	Name	Capacity
2502411008	Rotor	24x1.5/2.0ml
2502411009	PCR strip Rotor	4-8x0.2ml
2502411010	Rotor	12x5ml
2502411011	Adapter	0.5-0.6ml tube
2502411012	Adapter	0.2ml tube

LTCEN29-2 MICROCENTRIFUGE

Large radius rotor with 8 tube holes, centrifugal force is 1.5 times bigger than ordinary 6-hole rotor at the same rolling speed

The cover press-button is outward designed with start/stop function. Press the button, the cover will open automatically to 95°, which is very convenient for one-hand operation

The rotor is clip-on fixed. Very convenient for rotors exchanging yet fixed solid reliable

LED displays speed (MINI-10K+) and timing

Working is silent and stable. Free-maintenance motor, long-life and safe

Smart appearance. Multi-purpose to meet different experimental demands



SPECIFICATIONS

Model	LTCEN29-2
Rotor Capacity (No of tubes x Vol.)	8x1.5/2.0 ml, 8x0.5 ml, 16x0.2 ml(single tube or 2x8x0.2 ml strips). (With 0.5 ml and 0.2 ml tube adapter)
Speed Range	4000 rpm
RCF	Approx.700 g
Time Range	1s ~9999 min or continuous
Noise Level	≤45 dB
Voltage	AC 220 V / AC 110 V, 50/60 Hz
Power	≤ 45 W
Fuse	250 V, 1 A, Φ5x20
Overall Dimension	W.156 x D.176 x H.121 mm
Net Weight	1.5 kg

ACCESSORIES

Accessory Code	Name
2502909008	Rotor
2502909009	Strip Rotor
2502909010	Tube adaptors

LTCEN29-9 MICROCENTRIFUGE

Low noise, <47dB

Rotors are easily interchangeable

The maximum RCF can be 3200xg

There are two ways to stop the machine, one is free stop which takes less than 15 seconds and other way is cover braking which takes 3 seconds.

Low wind resistance with slow temperature increase

Filtration and voltage regulation function

well designed shock absorber with very lower vibration



SPECIFICATIONS

Model	LTCEN29-9
Maximum Capacity (No of tubes x Vol.)	8x1.5 ml / 2.0 ml
Speed Range	7200 rpm
Maximum RCF	810-3260xg
Speed Control	Automatic / Constant Speed
Brake System	Dynamic Braking
Drive System	Direct Drive / Vibration
Power Supply	AC85V-250V 1A 50 / 60 Hz

LTCEN29-10 MICROCENTRIFUGE

Quick release of rotor for easy rotor exchange

Gentle braking system for quick sample processing



SPECIFICATIONS

Model	LTCEN29-10
Maximum Capacity (No of tubes x Vol.)	8x1.5 ml / 2.0 ml
Speed Range	4000 & 6000
Maximum RCF	1200xg & 2000xg
Overall Dimension	135x147x120 mm
Weight (Net/Gross)	0.7 kg
Power Supply	AC100-240V

OPTIONAL ACCESSORIES

Accessory Code	Name	Capacity
2502917008	Fixed-Angle Rotor	8x1.5/2.0ml
2502917009	Strip Rotor	4-8x0.2ml
2502917010	Adapter	0.5-0.6ml tube
2502917011	Adapter	0.2ml tube

LTCEN29-11 MICROCENTRIFUGE

Stable operation

Low noise

Precise Control

Actual internal temperature is displayed which ensures safety of the sample

Ergonomic design

LED display

RPM and RCF can be set

Operating parameters can be modified during the operation

PULSE key for quick centrifugation

Visual and sound alerts

SPECIFICATIONS

Model	LTCEN29-11
Maximum Capacity (No of tubes x Vol.)	24x1.5/2ml
Speed Range	14800 rpm
Speed Accuracy	± 20 rpm
Maximum RCF	21000xg
Time Range	1S~99 min 9H 59S
Acceleration/ Deceleration	18s118s↓
Motor	AC various frequency motor
Overall Dimension	360x245x230 mm
Noise Level	≤ 60 dB
Weight (Net/Gross)	11 kg
Power Supply	AC200V-240V, 50Hz/60Hz, 5A

ACCESSORIES

Accessory Code	Name	Capacity
2502918010	Rotor	12x1.5/2.0 ml

OPTIONAL ACCESSORIES

Accessory Code	Name	Capacity
2502918008	Adapter	24x0.5 ml
2502918009	Adapter	24x0.2 ml

LTCEN29-12 MICROCENTRIFUGE

The maximum RCF can be 1700xg

Acceleration/Deceleration: <18 seconds

LCD display

Rotors are in autoclavable aluminium material

Short-spin key for quick centrifugation

Brushless DC motor

Low noise

Electronic lock

SPECIFICATIONS

Model	LTCEN29-12
Maximum Capacity (No of tubes x Vol.)	24x1.5/2ml
Speed Range	14800 rpm
Maximum RCF	17100xg
Time Range	15 S~99 min
Acceleration/ Deceleration	18s↑18s↓
Overall Dimension	230x210x150 mm
Weight (Net/Gross)	8 kg
Power	200 W
Power Supply	110V-240V 50-60 Hz

ACCESSORIES

Accessory Code	Name	Capacity
2502919008	Rotor	24x1.5/2.0 ml

LTCE29-14 MICROCENTRIFUGE

Compact and small size, save space

Variable frequency motor for excellent acceleration. High speed with low noise

To achieve max. speed 15000rpm (Max. RCF15000xg) or stop from max. speed, it costs about 15s

Highlight LCD displays speed and timing

Rotor is made of aluminium alloy, chemical attack resistant, resist dry heat sterilization many times

Short" key makes "touch to operate" easy and convenient

Excellent fluid air exchange technology. The unique three air flues design utmostly lower the temperature rising. Protect samples

sensitive to temperature

Self-locking function, cover can not be open while operating

Press the key to open the cover after operation. Safe and reliable

Aluminium rotor and plastic rotor (customized) are for optional. Aluminium rotor can resist heat disinfection but lower acceleration

Plastic acceleration speed is faster but is not available for heat disinfectior



SPECIFICATIONS

Model	LTCE29-14
Maximum Sample Capacity (No of tubes x Vol.)	2 ml / 1.5 mlx12
Speed Range	500 ~15000 rpm (increment: 100 rpm)
Maximum RCF	15000xg
Time Range	20 sec ~99 min
Acceleration to Max. Speed	around 15s
Deceleration to Stop	around 15s
Drive motor	variable frequency motor
Safety	self-lock, over-speed, over-temp., status diagnosis system
Other Functions	speed/RCF switch, touch operation, operating status display, alert
Power	105 W
Fuse	250 V, 5A/10 A, Φ5 x20
Voltage	AC220~230 V / AC110~120 V, 50/60 Hz
Overall Dimension	220 x 240 x 145 mm
Net Weight	5.1 kg

OPTIONAL ACCESSORIES

Accessory Code	Name
2502921008	No trouble to put tubes in
2502921009	Metal rotor+safety cover

LTCEN29-15 MICROCENTRIFUGE

High-speed and stable operation, the rotor and the motor shaft are matched with high-precision cones, high concentricity, and low operating noise

Both the upper cover and the lower shell adopt high-strength metal protective rings, which have high structural safety and ensure the safe operation

of the rotor at high speed

The invention patent of the upper cover safety lock ensures the safety during operation. It automatically pops up after the operation is completed, and has one-key open cover function

Adopting the three-dimensional air inlet circulation cooling method, the cooling effect is good, and the temperature rise of the rotor is low

Powerful DC brushless motor, maintenance-free, fast drive, ultra-quiet operation, low noise level

After the centrifugation is finished, the sound prompts and the cover will automatically opened, which is convenient for the sample to cool down; the brake is soft to protect the special sensitive samples

The speed up/down speed is adjustable, suitable for different experimental requirements

It adopts 4.3-inch color LCD screen, which can display the speed, centrifugal force and time at the same time

The buzzer prompts after the operation is completed, with the function of displaying the running status and prompting the error code

With PROG key, you can call the built-in 10 groups of programs with one key, which is convenient and quick to use

Equipped with a momentary centrifugal button, which can be centrifuged quickly to meet more experimental needs

High-strength aluminum alloy rotor has no service life limit and can be sterilized by high temperature and high pressure

One machine for multiple purposes, suitable for 0.2, 0.5, 1.5, 2.0, 5.0ml centrifuge tubes and PCR centrifuge tubes, four rotors are available

SPECIFICATIONS

Model	LTCEN29-15
Maximum Capacity (No of tubes x Vol.)	0.2ml/0.5ml/1.5ml/2mlx24; 0.2mlx8 stripx4; 0.5mlx36; 5mlx18
Speed Range	500-15000
Maximum RCF	21400xg
Speed Increment	100 rpm
Noise Level	≤62 dB
Other Functions	Speed/acceleration display function, instantaneous centrifugal function, running progress display, sound prompt function
Weight (Net/Gross)	13 Kg
Overall Dimension	W.238XD.335XH.208 mm
Voltage	500 W
Fuse	250V ,15A, Φ5x20
Power Supply	AC 220V 50Hz

OPTIONAL ACCESSORIES

Accessory Code	Name	Description
2502922008	Rotor	5 ml tubex18
2502922009	Rotor	0.2 ml tubex32/PCR tube strip 8 Well*4
2502922010	Rotor	0.5 ml tubex36
2502922011	Rotor	0.2 ml/0.5 ml/1.5 ml/2.0 ml tube x 24

LTCEN29-7 MICROPLATE CENTRIFUGE

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

SPECIFICATIONS

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

OPTIONAL ACCESSORIES

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

LTCEN29-8 PCR CENTRIFUGE

Compact design with small footprint

Acceleration / Deceleration: <18 seconds

Low noise

Metal rotor

Short Spin key for quick centrifugation

Temperature sensitive samples are protected by excellent air-flow

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

Maintenance free, Brushless DC motor

Autoclavable rotor



SPECIFICATIONS

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

ACCESSORIES

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

OPTIONAL ACCESSORIES

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



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