

MICROCENTRIFUGE



MICROCENTRIFUGE

This compact, powerful micro centrifuge is useful to separate or sediment small volume samples at high speed. The short-spin key, soft brake, FastTemp features optimizes the overall function of the centrifuges. Faults are diagnosed automatically and displays fault code. These hybrid micro-centrifuge can run PCR tubes, Capillary tubes along with standard tubes.

Used in Molecular Biology Separations, Clinical, Labs, Biochemistry, Tissue Culture, Genomics, Drug discover. Also known as Microfuge, Refrigerated Microcentrifuge, Laboratory Microcentrifuge.

CEN46-140R 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 adopt 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	CEN46-140R
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
Speed Accuracy	± 10 rpm
Maximum RCF	18880xg 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)
Weight (Net/Gross)	20 kg

Max. Power Consumption	800 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)
2202106005	No. 1 Fixed-Angle Rotor	24x1.5/2.0 ml(with adapters for 0.2/0.5ml tube)	14000 rpm	18880Xg
2202106006	No. 2 Fixed-Angle Rotor	4xPCR-Strips	14000 rpm	18880Xg
2202106007	No. 3 Fixed-Angle Rotor	12x5 ml	14000 rpm	15880Xg

CEN47-150R 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 adopt 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	CEN47-150R
Maximum Capacity (No of tubes x Vol.)	12x5 ml
Temperature Range	-10°C to 35°C
Temperature Accuracy	± 1°C
Maximum Speed	15000 rpm
Speed Accuracy	± 10 rpm
Maximum RCF	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
Rotor Identification	Auto-ID Instant, immediately upon rotor insertion
Program	16 user-defined
Overall Dimension	11.2x15.7x11.2 in / 28.5x40x28.5 mm

Noise Level	≤ 58 dB(A)
Weight (Net/Gross)	21 kg
Max. Power Consumption	800 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)
2202107005	No. 1 Fixed-Angle Rotor	24x1.5/2.0 ml(with adapters for 0.2/0.5ml tube)	15000 rpm	21630Xg
2202107006	No. 2 Fixed-Angle Rotor	4xPCR-Strips	15000 rpm	21630Xg
2202107007	No. 3 Fixed-Angle Rotor	12x5 ml	15000 rpm	18270Xg

CEN48-150R 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	CEN48-150R
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
2202108005	Rotor	24x1.5/2.0ml
2202108006	PCR strip Rotor	4-8x0.2ml
2202108007	Rotor	12x5ml

2202108008	Adapter	0.5-0.6ml tube
2202108009	Adapter	0.2ml tube

CEN41-040 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	CEN41-040
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
2202606005	Rotor
2202606006	Strip Rotor
2202606007	Tube adaptors

CEN42-072 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	CEN42-072
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

CEN43-060 MICROCENTRIFUGE

Quick release of rotor for easy rotor exchange

Gentle braking system for quick sample processing



SPECIFICATIONS

Model	CEN43-060
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
2202614005	Fixed-Angle Rotor	8x1.5/2.0ml
2202614006	Strip Rotor	4-8x0.2ml
2202614007	Adapter	0.5-0.6ml tube
2202614008	Adapter	0.2ml tube

CEN44-148G 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	CEN44-148G
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	18s↑18s↓
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
2202615007	Rotor	12x1.5/2.0 ml

OPTIONAL ACCESSORIES

Accessory Code	Name	Capacity
2202615005	Adapter	24x0.5 ml
2202615006	Adapter	24x0.2 ml

CEN44-148 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	CEN44-148
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
2202616005	Rotor	24x1.5/2.0 ml

CEN41-500 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	CEN41-500
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
2202618005	No trouble to put tubes in
2202618006	Metal rotor+safety cover

CEN016-24 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	CEN016-24
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
2202619005	Rotor	5 ml tubex18
2202619006	Rotor	0.2 ml tubex32/PCR tube strip 8 Well*4
2202619007	Rotor	0.5 ml tubex36
2202619008	Rotor	0.2 ml/0.5 ml/1.5 ml/2.0 ml tube x 24

CEN31-0250MP MICROPLATE CENTRIFUGE

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

SPECIFICATIONS

Model	CEN31-0250MP
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
2202611005	Microplate Rotor	384-well / 96-well / Small capacity microliter plates / PCR microliter plates with or without skirt	384-well Microplate Rotor

CEN32-0080PCR 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	CEN32-0080PCR
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
2202612007	Rotor	8x1.5/2.0ml; 8x0.2ml; 2 strips	4000 rpm

OPTIONAL ACCESSORIES

Accessory Code	Name	Capacity
2202612005	Adapter	0.2 ml PCR tube
2202612006	Adapter	0.5 ml PCR tube

LABSTAC

Labstac LLC

82 Wendell Avenue, STE 100, Pittsfield, MA, 01201, USA
Email: contact@mail.labstac.com | Website: labstac.com