

# 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.)	24x1.5/2 ml
Temperature Range	-10°C to 35°C
Temperature Accuracy	± 1°C
Maximum Speed RPM	14000
Speed Accuracy	± 10 rpm
Maximum RCF	18800xg
Timer Range	1~999 min 59S
Temperature Increment	1°C
Acceleration Rate	9
Deceleration Rate	9
Drive System	Direct, induction motor drive
Overall Dimension	285x400x285 mm
Program	9 user-defined
Noise Level	≤ 54 dB(A)
Weight (Net/Gross)	19 kg
Power Supply	AC 200-240V, 50/60Hz or AC 100-130V, 50/60Hz

## OPTIONAL ACCESSORIES

Accessory Code	Name	Description	RPM	RCF <sub>g</sub>	Capacity
LS54095	Fixed-Angle Rotor	4xPCR strip	14000	18800 <sub>g</sub>	
LS54287	Fixed-Angle Rotor	with adapters for 0.2ml and 0.5ml	14000	18800 <sub>g</sub>	24x1.5/2.0 ml

## 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.)	24x1.5/2 ml
Temperature Range	-10°C to 35°C
Temperature Accuracy	± 1°C
Maximum Speed RPM	15000
Speed Accuracy	± 10 rpm
Maximum RCF	21630 <sub>g</sub>
Timer Range	1~999 min 59S
Temperature Increment	1°C
Acceleration Rate	9
Deceleration Rate	9
Drive System	Direct, induction motor drive
Overall Dimension	285x400x285 mm
Program	9 user-defined
Noise Level	≤ 55 dB(A)
Weight (Net/Gross)	19 kg
Power	800 W
Power Supply	AC 200-240V, 50/60Hz or AC 100-130V, 50/60Hz

## OPTIONAL ACCESSORIES

Accessory Code	Name	Description	RPM	RCF <sub>xg</sub>	Capacity
LS54107	Fixed-Angle Rotor	4xPCR strip	15000	21630 <sub>xg</sub>	
LS54299	Fixed-Angle Rotor	with adapters for 0.2ml and 0.5ml	15000	21630 <sub>xg</sub>	24x1.5/2.0 ml

## 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 RPM	500-15000
Maximum RCF	21400 <sub>xg</sub>
Timer Range	1s ~ 99 min 59S
Acceleration/ Deceleration	15s±15s↓
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	Description	Capacity
LS55146	Rotor		24x1.5/2.0ml
LS55147	PCR strip Rotor		4-8x0.2ml
LS55148	Rotor		12x5ml
LS55149	Adapter		0.5-0.6ml tube
LS55150	Adapter		0.2ml tube

## CEN41-040 MICROCENTRIFUGE

LED display

Low noise

Stable

The cover press is outward designed with Start/Stop function

Press the button to open cover to 95 degrees

The rotor is clip-on fixed, easy to exchange



### SPECIFICATIONS

Model	CEN41-040
Maximum Capacity (No of tubes x Vol.)	8x1.5 ml / 0.5 ml / 0.2 ml
Maximum Speed RPM	4000
Maximum RCF	1200xg
Timer Range	1S ~ 9999 min
Fuse	250 V, 1A, $\phi$ 5x20
Overall Dimension	156x176x121 mm
Display	LED
Noise Level	$\leq 45$ dB
Weight (Net/Gross)	0.8 kg
Power Supply	AC 220V / AC 110 V, 50/60Hz

### ACCESSORIES

Accessory Code	Name	Description	Unit
LS55199	Micro Quartz Cuvette	10x2x45	Set (2 pcs)

## 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
Maximum Speed RPM	7200
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
Maximum Speed RPM	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	Description	Capacity
LS55142	Fixed-Angle Rotor		8x1.5/2.0ml
LS55143	Strip Rotor		4-8x0.2ml
LS55144	Adapter		0.5-0.6ml tube
LS55145	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
Maximum Speed RPM	14800
Speed Accuracy	± 20 rpm
Maximum RCF	21000xg
Timer 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	Description
LS55201	Rotor	12x1.5/2.0 ml

## OPTIONAL ACCESSORIES

Accessory Code	Name	Description	Capacity
LS55166	Adapter		24x0.5 ml
LS55167	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
Maximum Speed RPM	14800
Maximum RCF	17100xg
Timer 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	Description
LS55202	Rotor	24x1.5/2.0 ml

## CEN45-150 MICROCENTRIFUGE

Microprocessor controller  
LED display  
Inner chamber material: Stainless Steel  
Brushless DC motor  
Operating parameters can be modified during the operation





## SPECIFICATIONS

Model	CEN45-150
Maximum Capacity (No of tubes x Vol.)	24x1.5/2 ml
Maximum Speed RPM	15000
Speed Accuracy	± 20 rpm
Maximum RCF	21630xg
Timer Range	1~99 min 59 s, pulse
Acceleration Rate	10
Deceleration Rate	10
Drive System	Direct, induction motor drive
Overall Dimension	300x365x260 mm
Program	12 user-defined
Noise Level	≤ 58 dB(A)
Weight (Net/Gross)	20 kg
Power	500 W
Power Supply	AC 200-240V, 50/60Hz or AC 100-130V, 50/60Hz

## ACCESSORIES

Accessory Code	Name	Description	Capacity	RPM	RCF <sub>xg</sub>
LS52764	Rotor	with adapter for 24x0.2ml and 24x0.5ml	24x1.5/2.0 ml	15000	21630xg

## 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
Maximum Speed RPM	2500
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
LS55168	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
Maximum Speed RPM	800-13, 400
Maximum RCF	12100xg
Timer 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	Description	Max. Speed
LS55200	Rotor	8x1.5/2.0ml, 8x0.2ml, 2 strips	4000 rpm

## OPTIONAL ACCESSORIES

Accessory Code	Name	Description	Capacity
LS55156	Adapter		0.2 ml PCR tube
LS55157	Adapter		0.5 ml PCR tube





**Biozef**

82 Wendell Avenue, STE 100, Pittsfield, MA, 01201, USA  
Email: [info@biozef.com](mailto:info@biozef.com) | Website: [biozef.com](http://biozef.com)