

**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 Micro Centrifuge, Microfuge, Refrigerated Microcentrifuge.

## CR11 SERIES 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	CR111
Maximum Speed RPM	4000
Maximum Capacity	8x1.5 ml / 0.5 ml / 0.2 ml
Timer Range	1S ~ 9999 min
Noise	≤ 45 dB
Fuse	250 V, 1A, φ5x20
Dimension (LxWxH)	156x176x121 mm
Net Weight	0.8 kg
Power	AC 220V / AC 110 V, 50/60Hz

## ACCESSORIES

Accessory Code	Name	Capacity	Max. Speed
CX1247	Rotor	8x1.5/2.0ml, 8x0.2ml, 2 strips	4000 rpm

## CR12 SERIES 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	CR121
Maximum Speed RPM	7200
Maximum RCF	810-3260xg
Maximum Capacity	8x1.5 ml / 2.0 ml
Speed Control	Automatic / Constant Speed
Acceleration Time	90% rated speed within 5 sec
Deceleration Time	Cover Closed: within 15 secs, Cover open: within 3 secs
Brake System	Dynamic Braking
Driving System	Direct Drive / Vibration
Power	AC85V-250V 1A 50 / 60 Hz

## CR13 SERIES MICROCENTRIFUGE

- Quick release of rotor for easy rotor exchange
- Gentle braking system for quick sample processing



### SPECIFICATIONS

Model	CR131
Maximum Speed RPM	4000 & 6000
Maximum RCF	1200xg & 2000xg
Maximum Capacity	8x1.5 ml / 2.0 ml
Dimension (LxWxH)	135x147x120 mm
Net Weight	0.7 kg
Power	AC100-240V

## OPTIONAL ACCESSORIES

Accessory Code	Name	Capacity
CX1248	Fixed-Angle Rotor	8x1.5/2.0ml
CX1249	Strip Rotor	4-8x0.2ml
CX1250	Adapter	0.5-0.6ml tube
CX1251	Adapter	0.2ml tube

## CR21 SERIES MICROCENTRIFUGE



### FEATURES

	CR211	CR212
Low noise	•	•
Stable operation	•	
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	•	
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		•
Electronic lock		•

### SPECIFICATIONS

Model	CR211	CR212
Maximum Speed RPM	14800	
Maximum RCF	21000xg	17100xg
Maximum Capacity	24x1.5/2ml	
Speed Accuracy	± 20 rpm	-

Timer Range	1S~99 min 9H 59S	15 S~99 min
Acceleration / Braking Time [Sea]	18s↑18s↓	
Motor	AC various frequency motor	-
Noise	≤ 60 dB	-
Dimension (LxWxH)	360x245x230 mm	230x210x150 mm
Net Weight	11 kg	8 kg
Power	AC200V-240V, 50Hz/60Hz, 5A	110V-240V 50-60 Hz
Max Power	-	200 W

## ACCESSORIES

Accessory Code	Name	Capacity	For Models
CX1278	Rotor	24x1.5/2.0 ml	CR211
CX1281	Rotor	24x1.5/2.0 ml	CR212

## OPTIONAL ACCESSORIES

Accessory Code	Name	Capacity	For Models
CX1279	Adapter	24x0.5 ml	CR211
CX1280	Adapter	24x0.2 ml	CR211

## CR22 SERIES MICROCENTRIFUGE

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



## SPECIFICATIONS

Model	CR221
Maximum Speed RPM	15000
Maximum RCF	21630xg
Maximum Capacity	24x1.5/2 ml
Speed Accuracy	± 20 rpm
Timer Range	0~99 min
Motor	Frequency conversion motor
Noise	≤ 58 dB(A)
Dimension (LxWxH)	365x300x260 mm
Net Weight	20 kg
Power	AC 200-240V, 50/60Hz or AC 100-130V, 50/60Hz

## ACCESSORIES

Accessory Code	Name	Capacity	Max. Speed	Max. RCF
CX1127	Rotor	24x1.5/2.0 ml (with adapter for 24x0.2ml and 24x0.5ml)	15000 rpm	21630xg

## CR31 SERIES 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	CR311	CR312
Maximum Speed RPM	14000	15000
Maximum RCF	18800xg	21630xg
Maximum Capacity	24x1.5/2 ml	
Speed Accuracy	± 10 rpm	
Temperature Range	-10°C to 35°C	
Temperature Accuracy	± 1°C	
Timer Range	0~999 min 59S	
Motor	Variable Frequency Motor	
Noise	≤ 54 dB(A)	
Dimension (LxWxH)	400x285x285 mm	
Net Weight	18 kg	
Power	AC 200-240V, 50/60Hz or AC 100-130V, 50/60Hz	

## OPTIONAL ACCESSORIES

Accessory Code	Name	Capacity	Max. Speed	Max. RCF	For Models
CX1128	Fixed-Angle Rotor	24x1.5/2.0 ml (with adapters for 0.2ml and 0.5ml)	14000 rpm	18800xg	CR311

CX1129	Fixed-Angle Rotor	4xPCR strip	14000 rpm	18800xg	CR311
CX1130	Fixed-Angle Rotor	24x1.5/2.0 ml (with adapters for 0.2ml and 0.5ml)	15000 rpm	21630xg	CR312
CX1131	Fixed-Angle Rotor	4xPCR strip	15000 rpm	21630xg	CR312

## CR32 SERIES 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	CR321
Maximum Speed RPM	500-15000
Maximum RCF	21400xg
Maximum Capacity	24x1.5/2 ml
Temperature Range	-10°C to 40°C
Temperature Control at 4°C	± 2°C
Timer Range	1s ~ 99 min 59S
Acceleration Time	15S
Deceleration Time	15S
Max Power	500 W
Dimension (LxWxH)	300x500x320 mm
Net Weight	28 kg
Power	AC100-120V/AC200-240V 50-60Hz

### OPTIONAL ACCESSORIES

Accessory Code	Name	Capacity
CX1252	Rotor	24x1.5/2.0ml
CX1253	PCR strip Rotor	4-8x0.2ml
CX1254	Rotor	12x5ml
CX1255	Adapter	0.5-0.6ml tube
CX1256	Adapter	0.2ml tube

# CR33 SERIES REFRIGERATED MICROCENTRIFUGE

- Electronic interlock
- Rotors are in autoclavable aluminium material
- Brushless DC motor
- Ergonomic design
- LCD display
- RPM and RCF can be set
- Short-spin key for quick centrifugation
- Easy-to-read display and sound alerts
- Operating parameters can be modified during the operation
- Pre-cooling function: Provides low temperature before operation. The temperature is reduced to 2°C after 7 mins and maintains the temperature less than 2°C at maximum speed.
- CFC free refrigerant
- Gentle braking system for quick sample processing
- Visual and sound alerts



## SPECIFICATIONS

Model	CR331
Maximum Speed RPM	15000
Maximum RCF	15100xg
Maximum Capacity	18x5 ml
Speed Accuracy	± 20 rpm
Temperature Range	-20°C to 40°C
Timer Range	30S – 99 min – HOLD (Continuous)
Acceleration / Braking Time [Sea]	25s↑ 25s↓
Motor	Brushless DC motor
Safety Features	Dual door interlock, Over-speed detection, Over-temperature detection, Automatic internal diagnosis
Noise	≤ 56 dB
Dimension (LxWxH)	338x580x324 mm
Net Weight	30 kg
Power	Single-phase, AC220V-240V, 50Hz/60Hz, 10A; AC110V-120V, 50Hz/60Hz, 10A

## ACCESSORIES

Accessory Code	Name	Capacity
CX1259	Aluminum alloy rotor kit	Rotor kit with lid, fixing clips and O'ring, 15000rpm, 2ml/1.5mlx24

## OPTIONAL ACCESSORIES

Accessory Code	Name	Capacity
CX1257	Aluminum alloy rotor kit	Rotor kit with lid, fixing clips and O'ring, 15000rpm, 5mlx18
CX1258	Aluminum alloy rotor kit	Rotor kit with lid, fixing clips and O'ring, 15000rpm, 5mlx12 (ependrof tube)
CX1260	Aluminum alloy rotor kit	Rotor kit with lid, fixing clips and O'ring, 15000rpm, 0.5mlx36
CX1261	Aluminum alloy rotor kit	Rotor kit with lid, fixing clips and O'ring, 15000rpm, 4xPCR 8

## CM11 SERIES MICROPLATE CENTRIFUGE

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



## SPECIFICATIONS

Model	CM111
Maximum Speed RPM	2500
Maximum RCF	500xg
Maximum Capacity	384-well PCR microliter plate
Ambient Temperature	5°C~40°C
Relative Humidity	≤85%
Atmospheric Pressure	860hPa-1060hPa
Noise	≤ 60 dB
Dimension (LxWxH)	222x220x190 mm
Net Weight	2.3 kg
Power	110V 50/60Hz

## OPTIONAL ACCESSORIES

Accessory Code	Name	Description	Capacity
CX1282	Microplate Rotor	384-well / 96-well / Small capacity microliter plates / PCR microliter plates with or without skirt	384-well Microplate Rotor

## CM12 SERIES 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	CM121
Maximum Speed RPM	800-13, 400
Maximum RCF	12100xg
Timer Range	15 S~99 min
Acceleration / Braking Time [Sea]	13s / 12 s
Max Power	100 W
Dimension (LxWxH)	260x260x150 mm
Net Weight	4.3 kg
Power	110V 60Hz, 230V 50 / 60 Hz

### ACCESSORIES

Accessory Code	Name	Capacity
CX1262	Rotor	12x1.5/2.0 ml

### OPTIONAL ACCESSORIES

Accessory Code	Name	Capacity
CX1263	Adapter	0.2 ml PCR tube
CX1264	Adapter	0.5 ml PCR tube

## ACCESSORIES

				
CX1248	CX1249	CX1127, CX1130	CX1129, CX1131	CX1252
				
CX1253	CX1254	CX1259	CX1257	CX1258
				
CX1260	CX1261	CX1262		

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