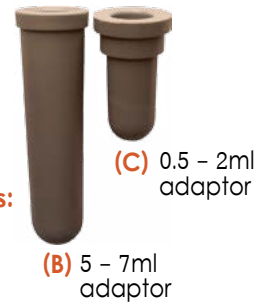


LCEN-100 Series, Clinical Centrifuges, Eight Places Rotor Of 15ml Tubes, 2500rpm Or 6000rpm



These centrifuges are widely used in many fields such as biology, medicine, pharmacology, dental, beauty clinics and veterinary laboratory and other regions. They are small, compact, strong and easy and safe for operation. The centrifuge operate smoothly and steadily. The design is up to date, beautiful outlook and durable. ABS outer shell can resist collision. It could accommodate 7ml, 10ml and 15ml centrifuge tubes without changing the rotor. With safety lock, when cover is opened, the motor can be stopped. Precision mechanical timer with bell can be set from 0 to 30 minutes. Speed is linear and stable. Auto balancing system. Vacuum rubber feet provide stable: "not walking" unit.



Options: Adaptors for tubes

- (A) Standard 10~15ml tube holder; inner size:Ø17.5mm x L98mm (included).
- (B) Optional 5~7ml tube holder; inner size:Ø13.5mm x L69mm.
- (C) Optional 0.5~2.0ml tube holder; inner size:Ø11.0mm x L42mm.

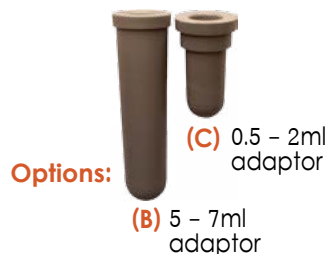
Model	Power Supply	Speed range	Rotor angle	Max. RCF(xG)	Dimensions Weight	Timer	Max. Capacity
LCEN-100	220V/50Hz or 110/60Hz	up to 2500rpm or up to 3200rpm	45°	1210xG	(HxWxDmm) 220x255x255 3kg	0-30min	15ml x 8 Optional adaptors for 7ml and 10ml
LCEN-101	110V/60Hz or 220/60Hz	300-6000rpm	45°	4100xG	(HxWxDmm) 270x255x255 5kg	0-30min	15ml x 8 Optional adaptors for 7ml and 10ml
LCEN-102 with tachometer	110V/60Hz or 220/60Hz	300-6000rpm	45°	4100xG	(HxWxDmm) 270x255x255 5kg	0-30min	15ml x 8 Optional adaptors for 7ml and 10ml



LCEN-304/312/324, Mini Centrifuges

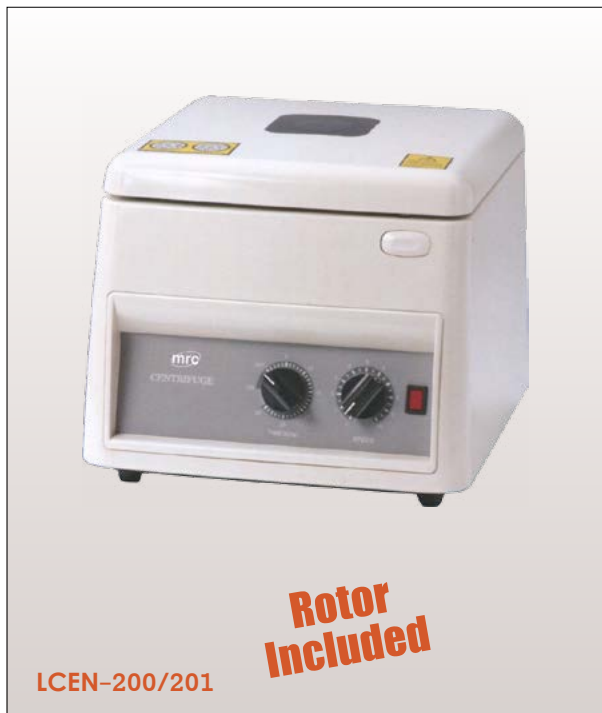
Features:

- Table top, attractive, practical, and durable design for your economic choice
- Safety balance
- Speed is linear and stable
- Friendly operate.



LCEN-304 (Top)

Model	LCEN-304	LCEN-312	LCEN-324
Rotor	45°C Angle Type Rotor		
Tube Size	50ml	10ml~15ml	
Capacity	4 tubes	12 tubes	24 tubes
Speed	500~3000rpm		
Timer	30 Min. Mechanical Timer With Bell Ring		
Power Supply	110V(220V available)		
Dimension	W300xD300xH315mm		
Net/Gross Weight	8.5/9.0 Kg		



LCEN-200/201, Compact Clinical-Typed Centrifuges, accept 8 or 12 tubes

Features:

- Free change of carbon brush motor, step less speed change.
- Auto power off when open and auto-balance device.
- For angle rotor.
- Power pilot light and fuse safety device.
- ABS hard shell and see-through window.
- Auto-cooling air circulation & manual cover lock.
- **Optional:** 6 ml adapter can be replaced.



Model	LCEN-200	LCEN-201
Max. Speed (rpm)	0~3,000/0~3,500	
Max. RCF (g)	1,360	
Max. Capacity (ml)	10x8	10x12
Timer (min)	0~30 or "ON"	
Weight (kg)	8	
W x D x H Size (cm)	29 x 32 x 25	

Rotors for LCEN-200/201 (Included)



R-8
LCEN-200
Max. 3,500rpm
8x15ml



R-12
LCEN-201
Max. 3,500rpm
12x15ml

Rotor	Max. Speed (rpm)	Max. RCF (g)	Capacity (ml x pcs)	Tube size (Ø x L) mm
R-8	3,500	1,360	15 x 8	12~16.5x70~117
R-12	3,500	1,360	15 x 12	12~16.5x70~100



LCEN-401N, Digital Clinical Centrifuge





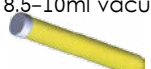




Clinical centrifuge is ideal for separation of serum, plasma, urea, blood samples and other routine applications in hospital and research laboratories.

Features:

- Max. speed is 4500rpm
- Precise control speed and time with efficient separation
- Faster acceleration & deceleration
- Suit for 15mL cell culture tubes and full line of collection tubes, ideal for a clinical labLED display
- Rotor capability: 15mLx8 or 10mL/7mL/5mLx12
- LED display.



Available rotor and adapters:

Rotor Type	Tubes	Available Tubes	Dimensions (Ø x L mm)	Adapters (included)	Maximum Speed (rpm)	Radius (cm)	Maximum RCF (x g)
A12-10P 	15ml con 	8	17 x 120		4500	11	2490
	1.5-5ml vacu 	12	13 x 82	A10P15 & Mat 	4500	9.8	2218
	4-7ml vacu 	12	13 x 106 16 x 75	A10P15 A10P15 & Mat 	4500	11 9.8	2490 2218
	8.5-10ml vacu 	12	16 x 107	A10P15 	4500	11	2490
	2.7-3ml(EU) collection tube 	12	11 x 66	A10P15 & Mat 	4500	9.8	2218
	7.5-8.2ml(EU) collection tube 	12	15 x 92	A10P15 	4500	11	2490

REMARK: A12-10P rotor is made of plastic & cannot be autoclaved or UV irradiation, only ordinary sterilization can be used.

CENTRIFUGES 300ml Capacity



SCEN-207 (Rotor not included)

SCEN-207, Beginner's Small Universal Centrifuge

Features:

- Analog speed tachometer.
- Optional rotor selections for various tube sizes.
- Regressive timer: 30min, or continuous operation.
- Angle rotor, stepless speed setting.
- Auto accelerating and decelerating functions.
- Auto-current restraining function.
- Power pilot light and fuse safety device.
- Manual cover lock.
- Speed: 5,500rpm; Timer: 0~30 or "ON".
- Max. capacity: 300 ml.
- Weight: 9kg.
- Size: W29xD32xH25cm.
- Auto power off when open and auto-balance device.
- ABS hard shell and see-through window.
- Auto-cooling air circulation.



Model	SCEN-207
Max. Speed (rpm)	5,500
Max. RCF (g)	3,280
Max. Capacity (ml)	300
Timer (min)	0~30 or "ON"
Weight (kg)	9
W x D x H Size (cm)	29 x 32 x 25



RA-5004 50ml x 4pcs
Max. 5,500rpm



RA-5006 50ml x 6pcs
Max. 5,500rpm



RA-1508 15ml x 8pcs
Max. 5,500rpm



RA-1512S 15ml x 12pcs
Max. 5,500rpm



REA-1520 1.5ml x 20pcs
Max. 4,000/5,500rpm

Rotors for SCEN-207:

	Max. Speed (rpm)	Max. RCF (g)	Capacity (ml x pcs)	Tube size (Ø x L) mm
RA-1508	0~5,500	3,140	15 x 8	15~16.7x90~122
RA-1512S		3,280	15 x 12	15~16.7x90~122
RA-5004		3,240	50 x 4	27.5~29.5x90~117
RA-5006		3,240	50 x 6	27.5~29.5x90~117
REA-1520		2,600	1.5 x 20	10~11x36~56

**MDCEN-302-SD, Benchtop low speed centrifuge****Features:**

- Metal housing is sturdy and durable.
- Auto-balancing system can extend motor life & reduce noise.
- With safety interlock, it can prevent the lid from being opened during operation.
- Forced fan air convection prevents the motor from overheating.
- Precision digital timer can be set to 30 minutes with 10 sec. increment.
- MDCEN-302-SD can offer short runs by pushing the function key.
- LED digital display enables users to monitor the present speed value and the remaining time.
- Automatic brake system can offer rapid deceleration.
- MDCEN-302-SD features a see-through window.
- The lid will be opened automatically once the rotor stops spinning.

Rotors for MDCEN-302-SD:

AR-1512
5-15ml x 12pcs
Max. 4,000rpm



AR-1524
5-15ml x 24pcs
Max. 4,000rpm



AR-5006
50ml x 6pcs
Max. 4,000rpm



UAR-1512
5-15ml x 12pcs
Max. 6,000rpm



SB-071550
5-7ml x 16pcs, 10-15ml x 12pcs,
50ml x 4pcs
Max. 4,000rpm

Technical Parameters:

Model	MDCEN-302-SD
Max Speed	6000 r/min
Max RCF	5,151 g
Max Capacity	24X15ml (4000rpm)
Motor	DC Motor
Timer Range	0~30 min, Digital Timer
Display	LED digital display for time & speed
Dimension	505 × 390 × 290 (L × W × H) mm
Weight (N/G)	19/21 kg

Rotor Technical Data:

Model	Capacity	Type	Speed	Standard Accessory	Max RCF
AR-1512	12x5~15ml	45° angle	300~4000rpm	(5~7)ml and (10~15)ml tube adapters	2325g
AR-1524	24x5~15ml	45° angle	300~4000rpm	(5~7)ml and (10~15)ml tube adapters	2325g
AR-5006	6x50ml	45° angle	300~4000rpm	50ml tube adapters	2325g
UAR-1512	12x5~15ml	45° angle	300~6000rpm	(5~7)ml and (10~15)ml tube adapters	5151g
SB-071550	16x5~7ml	Swing-out	300~4000rpm	(5~7)ml and (10~15)ml & 50ml tube adapters	2683g
	12x10~15ml		300~4000rpm		
	4x50ml		300~4000rpm		

Note: Tube adapter for (1.5~2.0)ml is optional.

CENTRIFUGES

Microcentrifuge Compact 6, 12 Places

ECEN-6/7/10, Mini Centrifuges, 6 Places



Model	ECEN-6	ECEN-7	ECEN-10
Power requirement	30W	30W	40W
Max. rotational speed	6,000rpm	7,000rpm	10,000rpm
Relative centrifugal force(RCF)	2,000×g	2,300×g	5,000×g
Rotor	6×0.2/0.5/1.5/2.0ml angle rotor		
	2×8×0.2ml strip rotor		-
	Rotor for slide	-	-
Dimensions(W×D×H)	175×148×118mm		

ECEN-15K, High Speed Centrifuge

ECEN-15K high speed centrifuge is a powerful and easy-to-use benchtop assistant, under such compact design, the max. speed could be up to 14,500 rpm, and the premium brushless motor enables extremely quiet operation.



Features:

- Extremely quiet operation with LCD display
- Capacity: 12 x 1.5/2.0ml tubes.
- Separate short-spin key
- Low sample heating temperature (only 10°C after 30mins, at max. Speed)
- Autoclavable rotor (121°C, 20mins)
- Fast accelerate and deelerate speed (within 15 seconds)
- Metal made rotor, Inner centrifuge lid and lid latch to ensure extra safe operation
- Automatic rpm/rcf conversion.



Specifications:

Model	ECEN-15K
Power	100 W
Max. rotational speed	14,500 rpm
Relative centrifugal force (RCF)	14,000 xg
Timer	20sec - 99min
Acceleration time to max speed	15 sec
Braking time from max speed	15 sec
Dimensions (Dx W x H) cm	27 x 23 x 15.5 cm
Weight (with rotor)	4.8kg

Rotor and other accessories:

- High intensive clear PC cover
- Autoclavable rotor (121°C. 20 mins)
- Optional adapters
 - Adapters for 0.2mltubes
 - Adapters for 0.5mltubes.

ECEN-205, High Speed Centrifuge, 18 Places



Features:

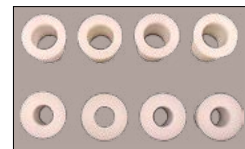
- LED speed & time display.
- Microprocessor control.
- 10 memory programs for preset parameters.
- Auto accelerating and decelerating functions.
- The transient centrifugal functions.
- Auto cover lock with motor running.
- Auto power off for rotor imbalance.
- Auto buzzer when finish.
- ABS hard shell and see-through window.
- Auto-cooling air circulation.
- Low noise.



REA-1518
(Included)
1.5/2.0ml x 18 places



Optional adaptors 0.5ml and 0.2ml



**Rotor
Included**

Model	Speed(rpm)	Rotor	Max. RCF (g)	Max. capacity (ml x pcs)	Timer (min:sec)	Weight (kg)	WxDxH Size (cm)
ECEN-205	1000~14,000	REA-1518	16,000	1.5/2.0 x 18	99:59	8	29x32x24.5

AC110/220V, 50/60Hz, Tubes not included.

CENTRIFUGES

High-Speed 300ml



SCEN-206/HSCEN-204

Model	SCEN-206	HSCEN-204
Max. Speed (rpm)	500~6,000	1,000~8,000
Max. RCF (g)	3,910	6,660
Max. Capacity (ml)	300	
Timer (min:sec)	99:59	
Weight (kg)	10	
W x D x H Size (cm)	29 x 32 x 25	
Power	AC 110V/220V, 50/60Hz	

SCEN-206/HSCEN-204, Digital Universal Centrifuges

Features:

- LED speed and time display.
- Microprocessor control.
- 10 memory programs for preset parameters.
- Auto accelerating and decelerating functions.
- Auto cover lock with motor running.
- Auto power off for rotor imbalance.
- Auto buzzer when finish.
- Speed: 500~6000rpm/1,000~8,000rpm
Timer: 99min 59 sec.
- Max. Capacity: 300ml.
- Weight: 10kg.
- Size: W29xD32xH25cm.
- ABS hard shell and see-through window.
- Auto-cooling air circulation.
- Optional rotor selections for various tube size.



(Rotor not included)

Rotors for SCEN-206



RA-1508
15ml x8pcs
Max. 6,000rpm



RA-1512S
15ml x12pcs
Max. 6,000rpm



RA-5004
50ml x4pcs
Max. 6,000rpm



RA-5006
50ml x6pcs
Max. 6,000rpm

Rotors for HSCEN-204 (High-Speed)



RA-1508-1
15ml x8pcs
Max. 8,000rpm



RA-1512S-1
15ml x12pcs
Max. 7,000rpm



RA-5004
50ml x 4pcs
Max. 7,500rpm



RA-5006
50ml x 6pcs
Max. 7,000rpm

Rotor	HSCEN-204		SCEN-206		Capacity (ml x pcs)	Tube size (Ø x L) mm
	Max. Speed (rpm)	Max. RCF (g)	Max. Speed (rpm)	Max. RCF (g)		
RA-1508			6,000	3,750	15 x 8	14~16.6x92~122
RA-1508-1	8,000	6,660			15 x 8	15~17.3x92~122
RA-1512S			6,000	3,910	15 x 12	14~16.6x92~122
RA-1512S-1	7,000	5,320			15 x 12	15~17.3x92~125
RA-5004			6,000	3,870	50 x 4	27.5~29.5x84~117
RA-5006			6,000	3,870	50 x 6	27.5~29.5x84~117

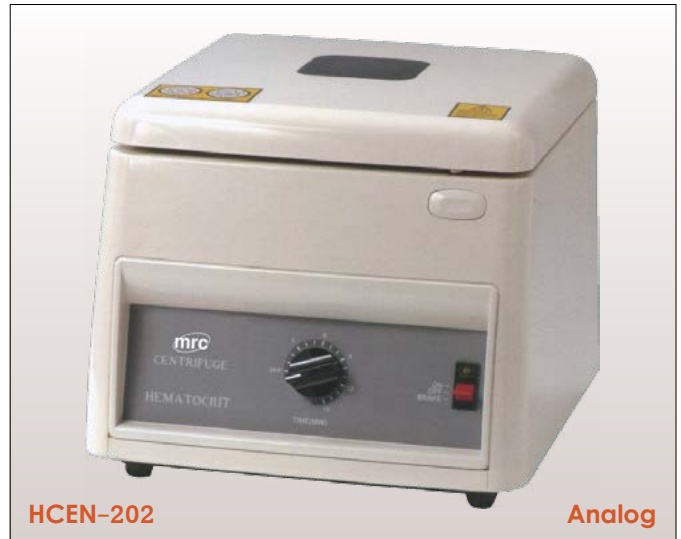
24 Places Hematocrit Centrifuges

Each capillary is secured within its own chamber and supported by a holding tray. This holding tray serves to contain glass shards and any leakage should a tube break. It is easy to clean and disposable in the case of glass breakage. The main area of application for hematocrit centrifuges is the determination of volume fraction of erythrocytes in blood. For this purpose, blood in hematocrit capillaries is centrifuged until maximum packed cell volume has been reached. Following centrifugation, the hematocrit value can be read using a special evaluation disc. Preparing blood for photometric determination of bilirubin content in plasma and centrifuging special capillaries for quantitative Buffy Coat Analysis are further areas of application for this special-purpose centrifuge.



HCEN-203

Digital



HCEN-202

Analog

Features for HCEN-203:

- Digital speed and time display.
- 10 memory programs for presetting parameters.
- Auto accelerating and decelerating functions.



Rotor Included

Features for HCEN-202:

- Manual-breaking system provides rapid deceleration.
- Power pilot light and fuse safety protection.
- Regressive timer: 15 min, with ring device.



Rotor Included



HT-Tube

Hematocrit Reader

Reader and HT tubes not included.

Rotor for HCEN-202/203 included



RHT-240
Hematocrit x 24pcs
Max. 12,000rpm

Model	HCEN-203	HCEN-202
Max. Speed (rpm)	1,000~12,000	12,000
Max. RCF (g)	14,810	
Max. Capacity (ml)	Hematocrit x 24	
Timer (min:sec)	99:59	0~15 min
Weight (kg)	10	8
W x D x H Size (cm)	29 x 32 x 25	

Rotor	Max. Speed (rpm)	Max. RCF (g)	Capacity (ml x pcs)	Tube size (Ø x L) mm
RHT-240	12,000	14,810	Hematocrit x 24	1.1~1.2 x 75



HCEN-103

HCEN-103, 24 Places Rotor Of 1.5ml/2ml Tubes & 24 Places Hematocrit Centrifuge

Digital Micro Centrifuge HCEN-103 is designed for small specimens. Digital Micro Centrifuge with metal housing is sturdy and durable. Auto-balancing system can extend motor life and reduce noise.

With safety interlock, it can prevent the lid from being opened during operation. Forced fan air convection prevents the motor from overheating. Precision digital timer can be set from 0 ~ 15 minutes 30 sec. increment. HCEN-103 can offer short runs by pressing the function key. LED digital display enable user to monitor the present speed or the remaining time. Automatic brake system can offer rapid deceleration. HCEN-103 features a see-through window. The lid will be opened automatically once the rotor stop spinning.

HCEN-103 is a combo centrifuge with can accommodate micro or micro hematocrit rotors. Quality certificate: ISO 9001, 13485.

Specifications for Centrifuge:

Model	Timer	Speed display	Motor	Weight (kg) (N.W./G.W.)	Size(mm) WXD _X H
HCEN-103	0~15 min. Digital timer	LED digital display for time and speed	Universal motor	13.0/14.5	290x400x260

Specifications for Rotors (Included):

Model	Max. Speed (rpm)	Type	Capacity
HT-24	500~12,000	Disc	24 x capillary tube(Diam.1.5x75mm)
MAR-24	500~12,000	45 degerr angle	24 x (1.5~2.0)ml

Note: Standard percentage reader (aluminum) is a standard accessory for HT-24.



BLCEN-208

BLCEN-208, Immunology Blood Typing Centrifuge

Features:

- Digital speed and time display.
- 10 memory programs for presetting parameters.
- Auto accelerating and decelerating functions.

Application:

The identification of blood type, red blood cell and lymph cell cleaning, the handle of blood coagulation, and the separation of lymph cell.

To observe the reaction of blood coagulation, cultivate and separate cell, match blood by intersection, blood separation, and anti-serum globulin test.

Model	Max. Speed (rpm)	Max. RCF (g)	Max. Capacity (ml)	Timer	Weight (kg)	W x D x H Size (cm)
BLCEN-208	4,000	1,600	6x12 of glass tube (Ø12xL75mm)	99:59 (min:sec)	10	29 x 32 x 25
	1 / 2200	480		60 (sec)		
	2 / 3000	900		15 (sec)		
	3 / 3000	900		60 (sec)		

Rotor for BLCEN-208



SERO
6ml x 12pcs
Max. 4,000rpm

Rotor Included

Rotor	Max. Speed (rpm)	Max. RCF (g)	Capacity (ml x pcs)	Tube size (Ø x L) mm
SERO	4,000	1,600	6 x 12	12 x 75



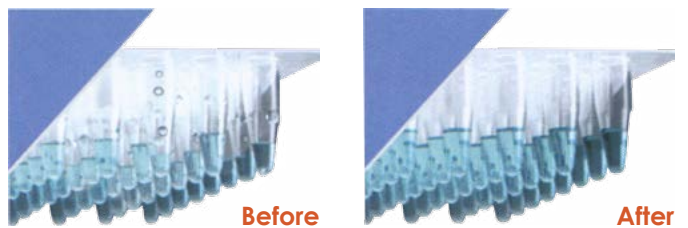
MINI-PLATE, Mini-Plate Centrifuge

The compact and economical Mini-PLATE Mini-Plate. It can quickly spin down droplets and condensation and is for use before and after thermal cycling to improve PCR yield.

It accepts skirted, non-skirted and all standard PCR plates making, it's suitable for the molecular laboratory.

Features:

- Quickly Spin down droplets.
- Use before & after thermal cycling to increase PCR yield.
- Accepts skirted, non-skirted and all standard PCR plates.
- Less than 1/4 the size of most plate centrifuges.



Model	Capacity	Rotor Speed	G Force	Dimensions	Weight	Power
MINI-PLATE	2 PCR Plates	2500rpm	500 xg	20(W)x23(D)x19.3(H)cm	3kg	120V/230V, 50-60HZ



CEN-ID24, Centrifuge for up to 24 gel cards

Features:

- Silent centrifuge for up to 24 ID-cards.
- Removable and exchangeable spinning head
- Automatic balance control
- Pre-defined centrifugal parameters for optimum Cards processing; acceleration, speed, braking & time
- Digital interface visor control and visualization of centrifuge speed and time remaining for processing
- Programmable audible alarms for end of centrifuge time periods.

Model	CEN-ID24
Capacity	24 Gel Cards
Speed Range	500~1500rpm
Centrifugal Force	33~294g
Timer	1~20min
Power	AC100~240V, 85W
Dimensions (DxWxH)	530 x 410 x 180mm
Net Weight	11.5kg

CEN-ID24



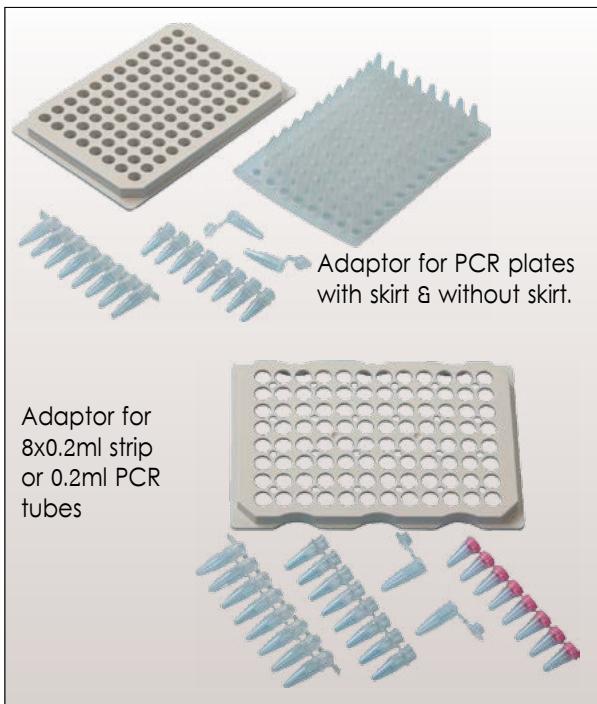
MINI-PLATE-1, Mini-Plate Centrifuge

Mini-Plate-1 Centrifuge is the first one adopted an unique design for the horizontal rotor centrifuge (Patented) in the world. The plate or tubes set into the rotor with 2pcs slope-rotor-shelf. It can quickly spin down droplets and condensation and is for use before and after thermal cycling to improve PCR yield and other tests. The Mini-Plate-1 combines functionality, easily operation and comfort – a lot of “high” qualities to come standard in one compact micro-centrifuge.

Features:

- Unique design for the horizontal rotor (Patented)
- It can accept below formats:
 - PCR standard plates with skirted, non-skirted
 - Elisa Plates
 - 8x0.2ml PCR strip tubes
 - 0.2ml PCR tubes
- Braking time from max.speed: lower than 30sec
- Timer can be set up to 10minutes
- Short-spin and timing of two operations make the tests more convenient
- Streamline design with more compact shape and transparent PC lid.

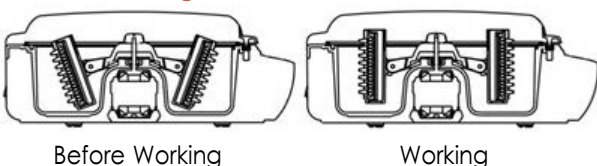
Adaptors for Mini-Plate-1



How to put the Plates



Functional Diagram



Model	Capacity	Rotor Speed	G Force	Dimensions	Weight	Power
MINI-PLATE-1	2pcs PCR plates with skirt or without skirt/Elisa plates 8x0.2ml PCR strip tubes / 0.2ml PCR tubes	2,200rpm	480 xg	290(W)x360(D)x140(H)mm	3.6kg	120V/220V, 50-60HZ