

# Compact Cooling Centrifuges Cooling Micro Centrifuges



Alpha numeric  
LCD display

Bi-directional encoder  
for setting



# Compact Cooling Centrifuges Cooling Micro Centrifuges

These newly developed compact bench top Cooling Centrifuges models CM-8 Plus and CM-12 Plus offers quiet operation with very small footprint.

Centrifuge model CM-8 Plus is suitable for routine sample analysis in Medical, Hospital, Pathology and Institutional laboratories. With a wide choice of rotor heads and adaptors, this unit is truly versatile.

Micro Centrifuge model CM-12 Plus is useful for routine applications in bio-technology, PCR, life sciences, bio-chemical and clinical labs etc. This unit is ideal for centrifugation with micro tubes from 0.2 ml upto 1.5 ml.

## Salient Features :

- Stable speed output
- High Capacity (CM-8 Plus)
- High Speed (CM-12 Plus)
- Wide variety of rotors & reduction adaptors
- Precise temperature control up to -8°C
- Pre-cooling feature
- Fast spin feature
- Calibration window on lid for speed (rpm)
- Brushless Induction motor with variable frequency drive ensures gentle start
- Microprocessor based unit with alpha numeric LCD display
- Self-diagnosis of errors
- Parameters setting through easy to use bi-directional encoder
- Inverter fault detection with auto shutdown
- CFC free refrigeration system
- 24 programme memory
- 3 Accelerations, 4 Deceleration profiles
- Choice of rpm / rcf setting & display
- Operating panel with feather touch keys
- Digital countdown timer 0-99 minutes & continuous run
- Last set parameters recall (Useful for repetitive analysis)
- Automatic Rotor identification
- Safety lid interlock to prevent lid opening during centrifugation
- Imbalance detection & centrifugation stop with display of error
- Motor overload protection
- Gas hinge to prevent falling of door
- Emergency lid lock release

Technical Data		
Models	CM-8 Plus	CM-12 Plus
Max. Speed (rpm)	6000	16000
Max. RCF (g)	5070	16600
Max. Tube Size (ml)	100	5
Max. Capacity (ml)	400	40
*Min. Temperature (°C)	-8	-8
#Noise	≤ 60 dB	≤ 60 dB
Dimensions WxDxH (mm)	480 x 585 x 530	
Voltage Stabilizers	VS - 02	VS - 02

Supply: 220-240 Volts, 50 Hz Single Phase.

\* Note : Depending on capacity, type of rotor centrifugation speed, ambient temperatures and other process parameters.

# Note : Measured as per standard protocol

Rotors for CM-8 Plus				
Models	Capacity	Type of Container	MAX. RPM	MAX. RCF
<b>Swing Out Rotors</b>				
R-90 M	4 x 100 ml	Glass Tubes with Bio-safety Caps	4000	2500
R-81 M	16 X 15 ml	Glass Tubes	4500	3485
R-81B M	8 X 15 ml	Glass Tubes	4500	3485
R-82 AM	4 X 50 ml	Glass Tubes	4500	3485
<b>Angle Rotors</b>				
Models	Capacity	Type of Container	MAX. RPM	MAX. RCF
R-83 BM	8 x 15ml	Polypropylene tubes	6000	4700
R-89 M	24 x 15ml	Polypropylene tubes	6000	5070
R-84 M	6 x 50ml	Polypropylene tubes	6000	4700
R-88 M	4 x 100ml	Polypropylene tubes	6000	4550

Angle Rotors for CM-12 Plus				
Models	Capacity	Type of Container	MAX. RPM	MAX. RCF
RM-1214 M	10 x 2ml	Glass tubes	16000	16600
RM-1215 M	24 x 1.5ml	Polypropylene tubes	11850	12715
RM-1216 M	8 x 5ml	Polypropylene tubes	11850	13500
RM-1217 M	4 x 8 PCR Strips of 0.2ml	Polypropylene tubes	12000	11910

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Reduction Adaptors for CM-8 Plus

Models	Capacity	R-81 M	R-81 BM	R-82 AM	R-83 BM	R-84 M	R-88 M	R-89 M	R-90 M
RA-151	1 x wintrob	✓	✓	X	✓	X	X	X	X
RA-152	1 x 3ml	✓	✓	X	✓	X	X	✓	X
RA-153	1 x 5ml	✓	✓	X	✓	X	X	✓	X
RA-154	1 x 8ml	✓	✓	X	✓	X	X	✓	X
RA-155	1 x 4ml	✓	✓	X	✓	X	X	✓	X
RA-156	1 x 6ml	✓	✓	X	✓	X	X	✓	X
RA-157	1 x 50ml	X	X	X	X	X	X	X	✓
RA-158	1 x 30ml	X	X	X	X	X	X	X	✓
RA-160	1 x 15ml	X	X	X	X	X	✓	X	X
RA-161	1 x 50ml	X	X	X	X	X	✓	X	X
RA-166	3 x 15ml	X	X	X	X	X	✓	X	✓
RA-501	1 x 15 ml	X	X	✓	X	✓	X	X	X
RA-502	1 x 30ml	X	X	✓	X	✓	X	X	X
<b>Suitable for Falcon Tubes (without tubes)</b>									
RA-501F	1 x 15ml	X	X	✓	X	✓	X	X	X
RA-160F	1 x 15ml	X	X	X	X	X	✓	X	✓
RA-161F	1 x 50ml	X	X	X	X	X	✓	X	✓
<b>Suitable for Vacutainer Tubes (without tub</b>									
RA-162	1 x upto 5ml (75 mm long)	✓	✓	X	X	X	X	X	X
RA-163	1 x upto 6ml (100 mm long)	✓	✓	X	X	X	X	X	X
RA-164	1 x upto 10ml (100 mm long)	X	X	✓	X	✓	X	X	X
RA-167	4 x upto 6ml (100 mm long)	X	X	X	X	X	✓	X	✓
RA-168	33 x upto 10ml (100 mm long)	X	X	X	X	X	✓	X	✓



**RM-1217 M**  
(4 x 8 PCR Strips of 0.2ml)



**RM-1215 M**  
(24 x 1.5ml)



**R-90 M**  
(4 x 100 ml with Bio-safety Caps)



**R-81 M**  
(16 X 15 ml)

Specifications subject to change without notice