



CM-12 PLUS

Alpha Numeric
LCD Display

Bi-directional encoder
for setting

- Self-diagnosis of errors
- 24 programme memory
- 3 Accelerations, 4 Deceleration profiles
- Choice of rpm / rcf setting & display
- Countdown timer 0-99 minutes & continuous run
- Last parameters recall
- Automatic Rotor identification
- Safety lid interlock to prevent lid opening during centrifugation
- Imbalance detection
- 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.		

Centrifuge model CM-8 Plus is suitable for routine sample analysis in Medical, Hospital, Pathology and Institutional laboratories.

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

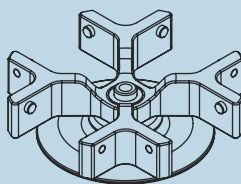
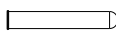
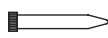
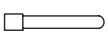
Salient Features :

- Stable speed output
- Pre-cooling feature
- Fast spin feature
- Brushless motor with frequency drive
- Microprocessor based with LCD display

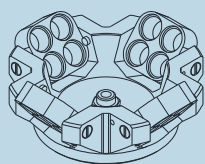
* Note : Depending on capacity, type of rotor centrifugation speed, ambient temperatures and other process parameters.

Note : Measured as per standard protocol

Swing Out Rotors for CM-8 Plus

Swing Out Rotor R-90 M (4 x 100ml)								
 Max. Speed RPM 4000 Max RCF (g) 2500				B-100				
								
Image of Tube								
Tube Capacity (ml)	100	50	50	30	15	15	10	5/7
Type of Tube	Glass	Glass	Conical	Glass	Glass	Conical	Blood Collection Tube	Blood Collection Tube (Long)
Insert or Cushion No.	C 100R Included	RE 100-50 (OLD - RA-157)	RE 100-50FR (OLD - RA-161F)	(OLD - RA-158)	RE 100-15R(3) (OLD - RA-166)	RE 100-15FR (OLD - RA-160F)	RE 100-10(3) (OLD - RA-168)	RE 100-5/7L(4) (OLD - RA-167)
No of tubes/Insert	1	1	1		3	1	3	4
No of tubes/rotor	4	4	4		12	4	12	16
Ø x L (mm)	45.5 x 104	30 x 110	29 x 116	24 x 110	17 x 110	16.5 x 120	15.5 x 106	12.5 x 106
Tubes supplied	Yes	Yes	No	Yes	Yes	No	No	No

Specifications subject to change without notice

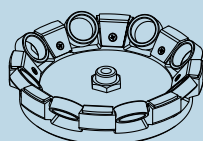


Swing Out Rotor R-81 M (16 x 15ml)

Max. Speed RPM 4500

Max RCF (g) 3485

Image of Tube									
Tube Capacity (ml)	15	8	5/7	5/7	6	5	4	3	1
Type of Tube	Glass	Glass	Blood Collection Tube (Long)	Blood Collection Tube (Short)	Glass	Glass	Glass	Glass	Wintrop
Insert or Cushion No.	C 15R Included	RE 15-8R (OLD - RA-154)	RE 15-5/7LR (OLD - RA-163)	RE 15-5/7SR (OLD - RA-162)	RE 15-6R (OLD - RA-156)	RE 15-5R (OLD - RA-153)	(OLD - RA-155)	RE 15-3R (OLD - RA-152)	(OLD - RA-151)
No of tubes/Insert	1	1	1	1	1	1	1	1	1
No of tubes/rotor	16	16	16	16	16	16	16	16	16
Ø x L (mm)	17 x 110	12 x 100	12.5 x 106	12.5 x 81	12 x 95	12 x 75	12 x 70	10 x 75	7 x 120
Tubes supplied	Yes	Yes	No	No	No	Yes	No	Yes	Yes

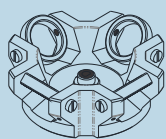


Swing Out Rotor R-81 BM (8 x 15ml)

Max. Speed RPM 4500

Max RCF (g) 3485

Image of Tube									
Tube Capacity (ml)	15	8	5/7	5/7	6	5	4	3	1
Type of Tube	Glass	Glass	Blood Collection Tube (Long)	Blood Collection Tube (Short)	Glass	Glass	Glass	Glass	Wintrop
Insert or Cushion No.	C 15R Included	RE 15-8R (OLD - RA-154)	RE 15-5/7LR (OLD - RA-163)	RE 15-5/7SR (OLD - RA-162)	RE 15-6R (OLD - RA-156)	RE 15-5R (OLD - RA-153)	(OLD - RA-155)	RE 15-3R (OLD - RA-152)	(OLD - RA-151)
No of tubes/Insert	1	1	1	1	1	1	1	1	1
No of tubes/rotor	8	8	8	8	8	8	8	8	8
Ø x L (mm)	17 x 110	12 x 100	12.5 x 106	12.5 x 81	12 x 95	12 x 75	12 x 70	10 x 75	7 x 120
Tubes supplied	Yes	Yes	No	No	No	Yes	No	Yes	Yes



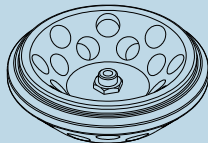
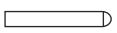
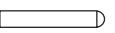
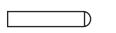
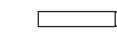
Swing Out Rotor R-82 AM (4 x 50ml)

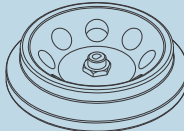
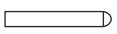
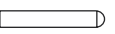
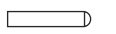
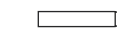
Max. Speed RPM 4500

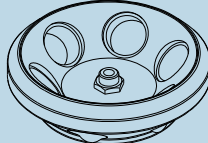
Max RCF (g) 3485

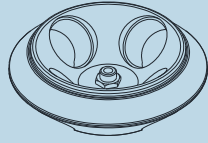
Image of Tube					
Tube Capacity (ml)	50	30	15	15	10
Type of Tube	Glass	Glass	Glass	Conical	Blood Collection Tube
Insert or Cushion No.	C 50R Included	(OLD - RA-502)	RE 50-15RR (OLD - RA-501)	RE 50-15FR (OLD - RA-501F)	RE 50-10R (OLD - RA-164)
No of tubes/Insert	1	1	1	1	1
No of tubes/rotor	4	4	4	4	4
Ø x L (mm)	30 x 110	24 x 110	17 x 110	16.5 x 120	15.5 x 106
Tubes supplied	Yes	Yes	Yes	No	No

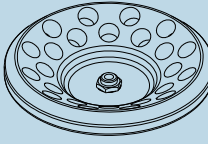
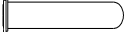
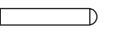
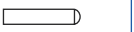
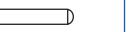
Angle Rotors for CM-8 Plus

Angle Rotor R-83 M (16 x 15ml) Max. Speed RPM 6000 Max RCF (g) 4700 	Image of Tube							
	Tube Capacity (ml)	15	8	6	5	4	3	1
	Type of Tube	Plastic	Glass	Glass	Glass	Glass	Glass	Wintrop
	Insert or Cushion No.	C 15R Included	RE 15-8R (OLD - RA-154)	RE 15-6R (OLD - RA-156)	RE 15-5R (OLD - RA-153)	(OLD - RA-155)	RE 15-3R (OLD - RA-152)	(OLD - RA-151)
	No of tubes/Insert	1	1	1	1		1	
	No of tubes/rotor	16	16	16	16		16	
	Ø x L (mm)	17 x 102	12 x 100	12 x 95	12 x 75	12 x 70	10 x 75	7 x 120
	Tubes supplied	Yes	Yes	No	Yes	No	Yes	Yes

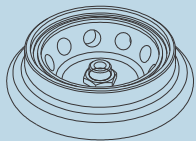
Angle Rotor R-83 BM (8 x 15ml) Max. Speed RPM 6000 Max RCF (g) 4700 	Image of Tube							
	Tube Capacity (ml)	15	8	6	5	4	3	1
	Type of Tube	Plastic	Glass	Glass	Glass	Glass	Glass	Wintrop
	Insert or Cushion No.	C 15R Included	RE 15-8R (OLD - RA-154)	RE 15-6R (OLD - RA-156)	RE 15-5R (OLD - RA-153)	(OLD - RA-155)	RE 15-3R (OLD - RA-152)	(OLD - RA-151)
	No of tubes/Insert	1	1	1	1		1	
	No of tubes/rotor	8	8	8	8		8	
	Ø x L (mm)	17 x 102	12 x 100	12 x 95	12 x 75	12 x 70	10 x 75	7 x 120
	Tubes supplied	Yes	Yes	No	Yes	No	Yes	Yes

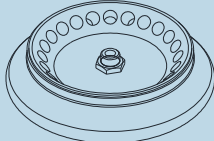
Angle Rotor R-84 M (6 x 50ml) Max. Speed RPM 6000 Max RCF (g) 4700 	Image of Tube					
	Tube Capacity (ml)	50	30	15	15	10
	Type of Tube	Plastic	Glass	Glass	Conical	Blood Collection Tube
	Insert or Cushion No.	C 50R Included	(OLD - RA-502)	RE 50-15RR (OLD - RA-501)	RE 50-15FR (OLD - RA-501F)	RE 50-10R (OLD - RA-164)
	No of tubes/Insert	1		1	1	1
	No of tubes/rotor	6		6	6	6
	Ø x L (mm)	30 x 100	24 x 110	17 x 110	16.5 x 120	15.5 x 106
	Tubes supplied	Yes	Yes	Yes	No	No

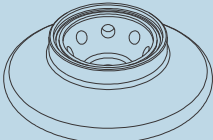
Angle Rotor R-88 M (4 x 100ml) Max. Speed RPM 6000 Max RCF (g) 4550 	Image of Tube								
	Tube Capacity (ml)	100	50	50	15	15	15	10	5/7
	Type of Tube	Plastic	Conical	Glass	Glass	Glass	Conical	Blood Collection Tube	Blood Collection Tube (Long)
	Insert or Cushion No.	C 100R Included	RE 100-50FR (OLD - RA-161F)	RE 100-50RR (OLD - RA-161)	(OLD - RA-160)	RE 100-15R(3) (OLD - RA-166)	RE 100-15FR (OLD - RA-160F)	RE 100-10(3) (OLD - RA-168)	RE 100-5/7L(4) (OLD - RA-167)
	No of tubes/Insert	1	1	1		3	1	3	4
	No of tubes/rotor	4	4	4		12	4	12	16
	Ø x L (mm)	45.5 x 104	29 x 116	30 x 110	17 x 110	17 x 110	16.5 x 120	15.5 x 106	12.5 x 106
	Tubes supplied	Yes	No	Yes	Yes	Yes	No	No	No

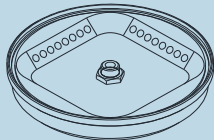
Angle Rotor R-89 M (24 x 15ml) Max. Speed RPM 6000 Max RCF (g) 5070 	Image of Tube						
	Tube Capacity (ml)	15	8	6	5	4	3
	Type of Tube	Plastic	Glass	Glass	Glass	Glass	Glass
	Insert or Cushion No.	C 15R Included	RE 15-8R (OLD - RA-154)	RE 15-6R (OLD - RA-156)	RE 15-5R (OLD - RA-153)	(OLD - RA-155)	RE 15-3R (OLD - RA-152)
	No of tubes/Insert	1	1	1	1		1
	No of tubes/rotor	24	24	24	24		24
	Ø x L (mm)	17 x 102	12 x 100	12 x 95	12 x 75	12 x 70	10 x 75
	Tubes supplied	Yes	Yes	No	Yes	No	Yes

Angle Rotors for CM-12 Plus

 Angle Rotor RM-1214 M (10 x 2ml) Max speed RPM 16000 Max RCF (g) 16600	
Image of Tube	
Tube Capacity (ml)	2
Type of Tube	Glass
Insert or Cushion No.	C 5R Included
No of tubes/Insert	1
No of tubes/rotor	10
Ø x L (mm)	12 x 36
Tubes supplied	Yes

 Angle Rotor RM-1215 M (24 x 1.5ml) Max speed RPM 11850 Max RCF (g) 12715	
Image of Tube	
Tube Capacity (ml)	1.5
Type of Tube	Micro
Insert or Cushion No.	No
No of tubes/Insert	-
No of tubes/rotor	24
Ø x L (mm)	11 x 41
Tubes supplied	No

 Angle Rotor RM-1216 M (8 x 5ml) Max speed RPM 11850 Max RCF (g) 13500	
Image of Tube	
Tube Capacity (ml)	5
Type of Tube	Plastic
Insert or Cushion No.	No
No of tubes/Insert	-
No of tubes/rotor	8
Ø x L (mm)	12 x 76
Tubes supplied	Yes

 Angle Rotor RM-1217 M (4 Strips of 8 PCR x 0.2ml) Max speed RPM 12000 Max RCF (g) 11910	
Image of Tube	
Tube Capacity (ml)	4 strips of 8 PCR
Type of Tube	PCR
No of tubes/rotor	4
Ø x L (mm)	6 x 78
Tubes supplied	No