

Refrigerated Centrifuges



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These Plus series Refrigerated Centrifuges are designed for centrifugation of temperature sensitive material and find application in routine and research work in auxiliary laboratories in industry, Educational & Research institutions, Bio Technology, Medical Laboratories, Hospitals, Blood Banks, Pharmaceutical & Clinical research laboratories.

All the centrifuges have rust proof, easy to clean Stainless Steel centrifuge inner chamber with steel guard. A wide variety of swing out and angle rotors

with a choice of reduction adaptors make these units truly versatile.

Users can select models as per their requirements from high volume low speed Centrifuges (C-23 Plus, CPR-23 Plus), low volume high speed centrifuges (C-24 Plus, CPR-24 Plus) in table top design & compact high-speed high volume (C-30 Plus, CPR-30 Plus) floor standing centrifuges.

	Table Top Models				Floor Models	
	High Volume Low Speed		Low Volume High Speed		High Volume High Speed	
	C-23 Plus	CPR-23 Plus	C-24 Plus	CPR-24 Plus	C-30 Plus	CPR-30 Plus
Programable compensation for true sample temperature	X	√	X	√	X	√
Pre cooling	X	√	X	√	X	√
Acceleration Profiles	low, high	9	low, high	9	low, high	9
Deceleration Profiles	Coasting, low, high	9 & Coasting	Coasting, low, high	9 & Coasting	Coasting, low, high	9 & Coasting
Fast Spin	X	√	X	√	X	√
Calibration window on lid for speed	√	√	√	√	√	√
Display	LED	LCD	LED	LCD	LED	LCD
Control Communication	Digital	Digital	Digital	Digital	Digital	Digital
Self-Diagnostics of errors	X	√	X	√	X	√
Parameters setting switches	Feather touch keys	Bi-directional encoder	Feather touch keys	Bi-directional encoder	Feather touch keys	Bi-directional encoder
Brushless motor with frequency drive	√	√	√	√	√	√
Inverter fault detection with auto shut down	√	√	√	√	√	√
CFC free refrigeration system	√	√	√	√	√	√
No. of Programs	X	99	X	99	X	99
Last set parameters recall	√	√	√	√	√	√
Choice of rpm / rcf setting	RPM	RPM / RCF	RPM	RPM / RCF	RPM	RPM / RCF
Temperature display	°C	°C / °F	°C	°C / °F	°C	°C / °F
Digital countdown timer 0-99 min & Continuous run	√	√	√	√	√	√
Log of cumulative run time	X	√	X	√	X	√
User defined program name	X	for 5 programs	X	for 5 programs	X	for 5 programs
Automatic door opening	√	√	√	√	√	√
Automatic Rotor Identification	√	√	√	√	√	√
Motor overload protection	√	√	√	√	√	√
Emergency lid lock release	√	√	√	√	√	√
Imbalance detection with centrifugation cut off	√	√	√	√	√	√
Password protection	X	√	X	√	X	√
Gas Hinge to prevent door falling	√	√	√	√	√	√

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Technical Data

Models		C-23 Plus CPR-23 Plus	C-24 Plus CPR-24 Plus	C-30 Plus CPR-30 Plus
Max. Speed	rpm	7000	20000	20000
Max. RCF	g'	7400	37570	37570
Max. Tube Size	ml	250	100	250
Max. Capacity	ml	1200	400	1200
Lowest Temp.*	°C	- 8	- 8	- 8
#Noise		≤ 60 dB	≤ 60 dB	≤ 60 dB
W x D x H	mm	830 x 650 x 500	775 x 575 x 475	660 x 765 x 945
Voltage Stabilizer	model	VS-03	VS-03	VS-03

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

Note : Measured as per standard protocol

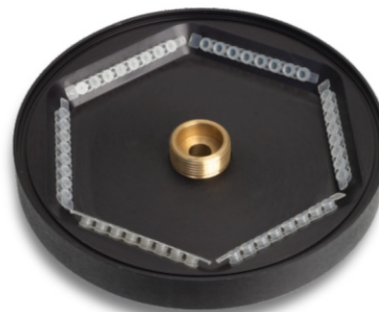
*Note : Depending on capacity, type of rotor, centrifugation speed, ambient temperatures and other process parameters.

Rotor Heads Listing

Models	Capacity	Container	C-23 Plus CPR-23 Plus		C-24 Plus CPR-24 Plus		C-30 Plus CPR-30 Plus	
			Speed (rpm)	RCF 'g'	Speed (rpm)	RCF 'g'	Speed (rpm)	RCF 'g'
Swing out Heads (with graduated glass tubes)								
R-230 M + R-231 M	4 x 200 ML	GLASS	5100	4500	X	X	4500	3500
R-234 M	4 x 250 ML	PLASTIC	5500	5070	X	X	4500	3500
R-235 M	8 X MICROTITOR	96 WELL	3200	1470	X	X	3200	1470
R-230 BM+ R-233 BM	108 x 5ML (RIA)	RIA PLASTIC TUBES	5100	3980	X	X	4500	3500
R-240 M	16 x 50 ML	FALCON®	X	X	X	X	3200	1775
R-240 AM	32 x 15 ML	FALCON®	X	X	X	X	3200	1775
R-246 AM	4 x 25 ML	GLASS	X	X	11000	12180	11000	12180
Angle heads (with Polypropylene / Polycarbonate tubes)								
R-236 M	6 x 200 ML	PLASTIC	7000	7400	X	X	7000	7400
R-237 M	8 x 100 ML	PLASTIC	7000	7400	X	X	7000	7400
R-238 M	12 x 50 ML	PLASTIC	7000	7400	X	X	7000	7400
R-239 M	36 x 15 ML	PLASTIC	7000	7400	X	X	7000	7400
R-241 M	4 x 100 ML	PLASTIC	X	X	14500	23980	14500	23980
R-243 M	8 x 25 ML	PLASTIC	X	X	18000	31150	18000	31150
R-244 M	12 x 15 ML	PLASTIC	X	X	18000	31150	18000	31150
R-247 M	8 x 50 ML	PLASTIC	X	X	16000	30020	16000	30020
R-248 M	24 x 1.5 ML	PLASTIC	X	X	20000	37570	20000	37570
R-249 M	6 strips of 8 x 0.2 ml	PLASTIC	X	X	11000	12180	11000	12180
Angle heads suitable for Falcon Tubes (without tubes)								
R-238 MF	12 x 50 ML	FALCON	7000	7400	X	X	7000	7400
R-239 MF	24 x 15 ML	FALCON	7000	7400	X	X	7000	7400
R-244MF	12 x 15 ML	FALCON	X	X	11000	14610	11000	14610
R-247MF	8 x 50 ML	FALCON	X	X	11000	14610	11000	14610

Reduction Adaptors for Swing Out Head Model R-230 M + R-231 M			
Suitable for Glass Tubes (with tubes)			
Models	Tube Capacity	No. of tubes per Adaptor	Total No. of Tubes
RA-2311	100 ml	1	4
RA-2312	50 ml	1	4
RA-2313	30 ml	3	12
RA-2314	15 ml	7	28
Suitable for Vacutainer Tubes (without tubes)			
RA-2315	Upto 4 ml (100 mm long)	6	24
RA-2316	Upto 10ml (100 mm long)	5	20
RA-2317	Upto 5ml (75 mm long)	6	24

Reduction Adaptors for Swing Out Head Model R-234 M			
Suitable for Glass Tubes (with tubes)			
Models	Tube Capacity	No. of tubes per Adaptor	Total No. of Tubes
RA-2341	50 ml	1	4
RA-2342	25 ml	3	12
RA-2343	15 ml	5	20
RA-2344	5 ml	13	52



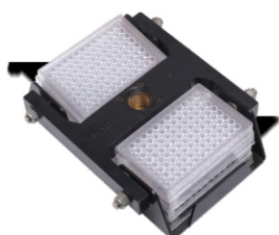
R-249 M
(6 strips of 8 x 0.2ml)



R-248 M
(24 x 1.5ml)



R-230 M + R-231 M
(4 X 200 ml)



R-235 M
(8 x MICROTITOR)



R-247 M
(8 x 50 ml)