



PR - 24

Microprocessor Research Centrifuges

Models PR - 23 & PR - 24 are Microprocessor controlled centrifuges used in auxiliary laboratories in industry, Educational & Research institutions, Bio Technology, Medical Laboratories, Hospitals, Blood Banks, Pharmaceutical laboratories and agriculture soil testing for determination of moisture equivalent of soil. Also suitable for determination of settlement of paints, pastes, cosmetics and food products. Centrifuge rotors & carriers are also suitable for use with variety of Falcon & Vacutainer tubes. These models have soft touch keypads for fast and accurate setting of run parameters.

Salient Features :

- Brushless induction motor with frequency drive
- User friendly microprocessor control with LED display
- Menu Driven ten programme memory
- choice of high brake, low brake and coasting
- Imbalance detector with Auto Cut-off
- Safety lid interlock to prevent cover opening during centrifugation
- Automatic unique safety rotor identification system
- Speed holding accuracy 100 RPM
- Self-diagnosis for errors
- Over current overheating safety cut-off



R - 24

Revolutionary Research Centrifuges

R - 23 & R 24 centrifuges are widely used in auxiliary laboratories in industry, Educational & Research institutions, Bio Technology, Medical Laboratories, Hospitals, Blood Banks, Pharmaceutical laboratories, Agriculture & Soil testing for determination of moisture equivalent of soil. It is also suitable for determination of settlement of paints, pastes, cosmetics and food products. Centrifuge rotors & carriers are also suitable for use with variety of Falcon & Vacutainer Tubes.

Salient Features:

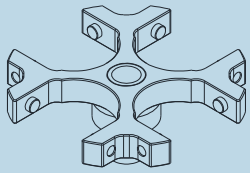
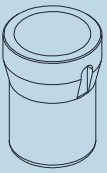
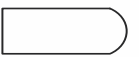
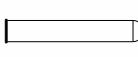
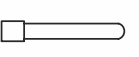
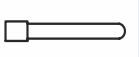
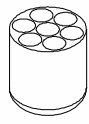
- Stepless speed regulator with zero start interlock
- Digital speed indicator
- Dynamic brake
- 0-99 minutes digital count down timer
- Imbalance detector with cut-off
- Safety lid interlock to prevent cover opening during centrifugation

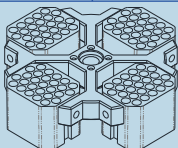
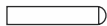
Technical Data					
Models		R-23	R-24	PR-23	PR-24
Max. Speed	rpm	6900	17300	7000	20000
Max. RCF	'g'	7350	30300	7560	40500
Max. Tube size	ml	200	100	250	100
Max. Capacity	ml	1200	400	1200	400
W x D x H	mm	400 x 500 x 455		400 x 500 x 440	

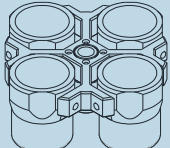
Supply: 220 - 240 Volts 50 Hz Single Phase.

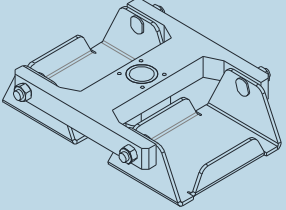
Specifications subject to change without notice

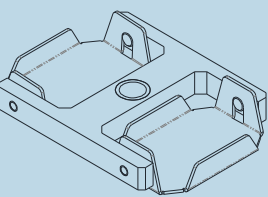
Rotors Listing for R-23 & PR-23

	 R-23				 R-231			
					Swing Out Rotor R-230 + R-231 (4 x 200ml)			
					R-23		PR-23	
					Max. Speed RPM 4800 Max RCF (g) 4000		Max. Speed RPM 5100 Max RCF (g) 4500	
Image of Tube								
Tube Capacity (ml)	200	100	50	30	15	10	5/7	5/7
Type of Tube	Glass	Glass	Glass	Glass	Glass	Blood Collection Tube	Blood Collection Tube (Long)	Blood Collection Tube (Short)
Insert or Cushion No.	C 200R Included	(OLD - RA-2311)	(OLD - RA-2312)	(OLD - RA-2313)	RE 200-15R(7) (OLD - RA-2314)	(OLD - RA-2316)	(OLD - RA-2315)	(OLD - RA-2317)
Image of Insert (Set of 4, supplied with suitable bottom cushions)	No							
No of tubes/Insert	1	1	1	3	7	5	6	6
No of tubes/rotor	4	4	4	12	28	20	24	24
Ø x L (mm)	55 x 115	45.5 x 104	30 x 110	24 x 110	17 x 110	15.5 x 106	12.5 x 106	12.5 x 81
Tubes supplied	Yes	Yes	Yes	Yes	Yes	No	No	No

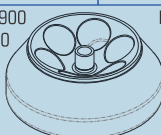
Swing Out Rotor R-230B + R-233B (108 X 5 (RIA))	
R-23	PR-23
Max. Speed RPM 5000 Max RCF (g) 3830	Max. Speed RPM 5100 Max RCF (g) 3980
	
Image of Tube	
Tube Capacity (ml)	108 X 5 (RIA)
Type of Tube	RIA Plastic Tubes
Insert or Cushion No.	No
No of tubes/Carrier	27
No of tubes/rotor	108
Ø x L (mm)	12.4 x 76
Tubes supplied	Yes

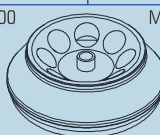
					
Swing Out Rotor R-234 (4 x 250ml)					
PR-23					
Max. Speed RPM 5500 Max RCF (g) 5070					
Image of Tube					
Tube Capacity (ml)	250	50	25	15	5
Type of Tube	Plastic	Glass	Glass	Glass	Glass
Insert or Cushion No.	C 250R Included	(OLD - RA-2341)	(OLD - RA-2342)	RE 250-15R(5) (OLD - RA-2343)	RE 250-5R(13) (OLD - RA-2344)
Image of Insert (Set of 4, supplied with suitable bottom cushions)	No				
No of tubes/Insert	1	1	1	5	13
No of tubes/rotor	4	4	4	20	52
Ø x L (mm)	67.5 x 100	30 x 110	28 x 62.5	17 x 110	14 x 100
Tubes supplied	Yes	Yes	Yes	Yes	Yes

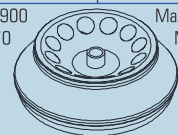
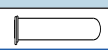
Swing Out Rotor R-235 (8 x 96 WELL)	
	PR-23
	Max. Speed RPM 3200 Max RCF (g) 1470
Image of Tube	
Tube Capacity (ml)	8 x 96 wells
Type of Tube	Microtiter
No of tubes/rotor	8
W x D x L (mm)	127 x 84 x 18
Tubes supplied	No

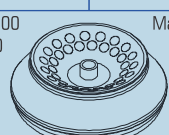
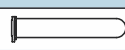
Swing Out Rotor R-230A (2 x 96 WELL)	
	PR-23
	Max. Speed RPM 3200 Max RCF (g) 1470
Image of Tube	
Tube Capacity (ml)	2 x 96 wells
Type of Tube	Microtiter
No of tubes/rotor	2
W x D x L (mm)	127 x 84 x 18
Tubes supplied	No

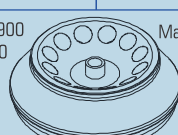
Specifications subject to change without notice

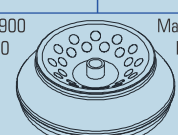
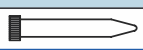
Angle Rotor R-236 (6 x 200ml)	
R-23	PR-23
Max. Speed RPM 6900 Max RCF (g) 7350	Max. Speed RPM 7000 Max RCF (g) 7560
	
Image of Tube	
Tube Capacity (ml)	200
Type of Tube	Plastic
Insert or Cushion No.	No
No of tubes/Insert	-
No of tubes/rotor	6
Ø x L (mm)	61 x 125
Tubes supplied	Yes

Angle Rotor R-237 (8 x 100ml)	
R-23	PR-23
Max. Speed RPM 6900 Max RCF (g) 7200	Max. Speed RPM 7000 Max RCF (g) 7400
	
Image of Tube	
Tube Capacity (ml)	100
Type of Tube	Plastic
Insert or Cushion No.	C 100R Included
No of tubes/Insert	1
No of tubes/rotor	8
Ø x L (mm)	45.5 x 104
Tubes supplied	Yes

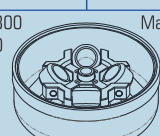
Angle Rotor R-238 (12 x 50ml)	
R-23	PR-23
Max. Speed RPM 6900 Max RCF (g) 6970	Max. Speed RPM 7000 Max RCF (g) 7450
	
Image of Tube	
Tube Capacity (ml)	50
Type of Tube	Plastic
Insert or Cushion No.	C 50R Included
No of tubes/Insert	1
No of tubes/rotor	12
Ø x L (mm)	30 x 100
Tubes supplied	Yes

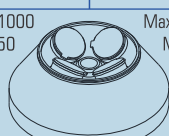
Angle Rotor R-239 (36 x 15ml)	
R-23	PR-23
Max. Speed RPM 6900 Max RCF (g) 7240	Max. Speed RPM 7000 Max RCF (g) 7400
	
Image of Tube	
Tube Capacity (ml)	15
Type of Tube	Plastic
Insert or Cushion No.	C 15R Included
No of tubes/Insert	1
No of tubes/rotor	36
Ø x L (mm)	17 x 102
Tubes supplied	Yes

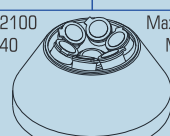
Angle Rotor R-238F (12 x 50ml)	
R-23	PR-23
Max. Speed RPM 6900 Max RCF (g) 6970	Max. Speed RPM 7000 Max RCF (g) 7450
	
Image of Tube	
Tube Capacity (ml)	50
Type of Tube	Conical
Insert or Cushion No.	C 50F
No of tubes/Insert	1
No of tubes/rotor	12
Ø x L (mm)	29 x 116
Tubes supplied	No

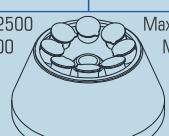
Angle Rotor R-239F (24 x 15ml)	
R-23	PR-23
Max. Speed RPM 6900 Max RCF (g) 7240	Max. Speed RPM 7000 Max RCF (g) 7400
	
Image of Tube	
Tube Capacity (ml)	15
Type of Tube	Conical
Insert or Cushion No.	C 15F
No of tubes/Insert	1
No of tubes/rotor	24
Ø x L (mm)	16.5 x 120
Tubes supplied	No

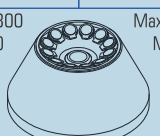
Rotors Listing for R-24 & PR-24

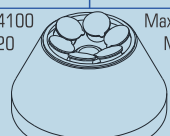
Swing Out Rotor R-246A (4 x 25ml)	
R-24	PR-24
Max. Speed RPM 9300 Max RCF (g) 8700	Max. Speed RPM 11000 Max RCF (g) 12180
	
Image of Tube	
Tube Capacity (ml)	25
Type of Tube	Glass
Insert or Cushion No.	C 25R Included
No of tubes/Insert	1
No of tubes/rotor	4
Ø x L (mm)	28 x 62.5
Tubes supplied	Yes

Angle Rotor R-241 (4 x 100ml)	
R-24	PR-24
Max. Speed RPM 11000 Max RCF (g) 14050	Max. Speed RPM 14500 Max RCF (g) 23980
	
Image of Tube	
Tube Capacity (ml)	100
Type of Tube	Plastic
Insert or Cushion No.	No
No of tubes/Insert	-
No of tubes/rotor	4
Ø x L (mm)	45.5 x 104
Tubes supplied	Yes

Angle Rotor R-242 (6 x 50ml)	
R-24	PR-24
Max. Speed RPM 12100 Max RCF (g) 14240	Max. Speed RPM 16000 Max RCF (g) 25180
	
Image of Tube	
Tube Capacity (ml)	50
Type of Tube	Plastic
Insert or Cushion No.	No
No of tubes/Insert	-
No of tubes/rotor	6
Ø x L (mm)	30 x 100
Tubes supplied	Yes

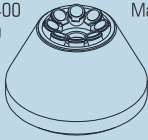
Angle Rotor R-243 (8 x 25ml)	
R-24	PR-24
Max. Speed RPM 12500 Max RCF (g) 14500	Max. Speed RPM 14500 Max RCF (g) 20220
	
Image of Tube	
Tube Capacity (ml)	25
Type of Tube	Plastic
Insert or Cushion No.	No
No of tubes/Insert	-
No of tubes/rotor	8
Ø x L (mm)	25 x 95
Tubes supplied	Yes

Angle Rotor R-244 (12 x 15ml)	
R-24	PR-24
Max. Speed RPM 12300 Max RCF (g) 14710	Max. Speed RPM 16000 Max RCF (g) 24900
	
Image of Tube	
Tube Capacity (ml)	15
Type of Tube	Plastic
Insert or Cushion No.	No
No of tubes/Insert	-
No of tubes/rotor	12
Ø x L (mm)	17 x 102
Tubes supplied	Yes

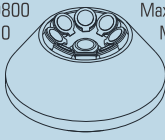
Angle Rotor R-243A (6 x 25ml)	
R-24	PR-24
Max. Speed RPM 14100 Max RCF (g) 17120	Max. Speed RPM 18000 Max RCF (g) 28980
	
Image of Tube	
Tube Capacity (ml)	25
Type of Tube	Plastic
Insert or Cushion No.	No
No of tubes/Insert	-
No of tubes/rotor	6
Ø x L (mm)	25 x 95
Tubes supplied	Yes

Specifications subject to change without notice

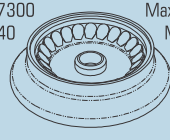
Angle Rotor R-244A (8 x 15ml)

R-24	PR-24
Max. Speed RPM 15400 Max RCF (g) 20150	Max. Speed RPM 18000 Max RCF (g) 27530
	
Image of Tube	
Tube Capacity (ml)	15
Type of Tube	Plastic
Insert or Cushion No.	No
No of tubes/Insert	-
No of tubes/rotor	8
Ø x L (mm)	17 x 102
Tubes supplied	Yes

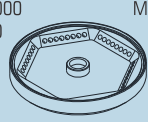
Angle Rotor R-247 (8 x 50ml)

R-24	PR-24
Max. Speed RPM 10800 Max RCF (g) 13430	Max. Speed RPM 14500 Max RCF (g) 24680
	
Image of Tube	
Tube Capacity (ml)	50
Type of Tube	Plastic
Insert or Cushion No.	No
No of tubes/Insert	-
No of tubes/rotor	8
Ø x L (mm)	30 x 100
Tubes supplied	Yes

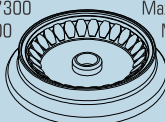
Angle Rotor R-248 (24 x 2ml)

R-24	PR-24
Max. Speed RPM 17300 Max RCF (g) 27440	Max. Speed RPM 20000 Max RCF (g) 37570
	
Image of Tube	
Tube Capacity (ml)	2
Type of Tube	Plastic
Insert or Cushion No.	No
No of tubes/Insert	-
No of tubes/rotor	24
Ø x L (mm)	11 x 41
Tubes supplied	Yes

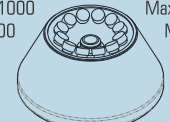
Angle Rotor R-249 (6 Strips of 8 PCR x 0.2ml)

R-24	PR-24
Max. Speed RPM 11000 Max RCF (g) 12180	Max. Speed RPM 11000 Max RCF (g) 12180
	
Image of Tube	
Tube Capacity (ml)	6 strips of 8 PCR
Type of Tube	PCR
Insert or Cushion No.	No
No of tubes/Insert	-
No of tubes/rotor	6
Ø x L (mm)	6 x 78
Tubes supplied	Yes

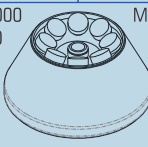
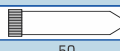
Angle Rotor R-251 (28 x 1.5ml)

R-24	PR-24
Max. Speed RPM 17300 Max RCF (g) 30300	Max. Speed RPM 20000 Max RCF (g) 40500
	
Image of Tube	
Tube Capacity (ml)	1.5
Type of Tube	Plastic
Insert or Cushion No.	No
No of tubes/Insert	-
No of tubes/rotor	28
Ø x L (mm)	11 x 41
Tubes supplied	Yes

Angle Rotor R-244F (12 x 15ml)

R-24	PR-24
Max. Speed RPM 11000 Max RCF (g) 15200	Max. Speed RPM 11000 Max RCF (g) 15200
	
Image of Tube	
Tube Capacity (ml)	15
Type of Tube	Conical
Insert or Cushion No.	No
No of tubes/Insert	-
No of tubes/rotor	12
Ø x L (mm)	16.5 x 120
Tubes supplied	No

Angle Rotor R-247F (8 x 50ml)

R-24	PR-24
Max. Speed RPM 11000 Max RCF (g) 15200	Max. Speed RPM 11000 Max RCF (g) 15200
	
Image of Tube	
Tube Capacity (ml)	50
Type of Tube	Conical
Insert or Cushion No.	No
No of tubes/Insert	-
No of tubes/rotor	8
Ø x L (mm)	29 x 116
Tubes supplied	No