Welcome to the Future of Medium Prime Centrifuges

In the past, manufacturers have offered limited rotor availability to Medium Centrifuges.

Not anymore.

Centurion Scientific Ltd are evolving the marketplace and have introduced *Medium Centrifuge Prime*.

A medium Centrifuge that offers.

1	Micro rotors. 0.2, 0.4, 0.5, 1.5, 2.0, 2.2ml & PCR 15,000Rpm and 22,000 Rcf (G) max	Capacity
2	Haematocrit rotor Capillary and 2.0ml tubes 12,000Rpm and 13,500 Rcf(G) max	Capacity
3	Fixed angle rotors 15 & 50ml tube (reducers available) 6,000Rpm and 4,800 Rcf (G) max	Capacity
4	Swing out rotor 0.5 to 250ml tube (adaptors available) 4,000Rpm and 2,200 Rcf (G) max	Capacity
5	Cytology rotor. 3 types 4, 8 or 12 place (Double holder) 2,000Rpm and 550 Rcf (G) max	Capacity



Display indicative only

CR4000 Medium Prime Centrifuge (1L)

CR4000. (230V 50/60Hz). 1.CR4000. (110V 60Hz)

Speed	500-15,000 Rpm (10 Rpm steps)
Rcf Max	22,000 G
Timer	0-99 Mins & Hold (30 sec steps)
Dims HWD.	310 x 400 x 500mm
Weight	32 Kg (without rotor)
Power	310 Watts
Memory	10 programs
Accel rates	10 programs
Decel rates	10 programs
	•

Welcome to the Future of Medium Prime Refrigerated Centrifuges

In the past, manufacturers have offered limited rotor availability to Medium Centrifuges.

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1	Micro rotors. 0.2, 0.4, 0.5, 1.5, 2.0, 2.2ml & PCR 15,000Rpm and 22,000 Rcf (G) max	Capacity
2	Haematocrit rotor Capillary and 2.0ml tubes 12,000Rpm and 13,500 Rcf(G) max	Capacity
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4	Swing out rotor 0.5 to 250ml tube (adaptors available) 4,000Rpm and 2,200 Rcf (G) max	Capacity
5	Cytology rotor. 3 types 4, 8 or 12 place (Double holder) 2,000Rpm and 550 Rcf (G) max	Capacity

CR4000R Medium Prime Centrifuge (1L) Refrigerated CR4000R. (230V 50Hz). 1.CR4000R. (110V 60Hz) 2.CR4000R. (230V 60Hz)



The following pages show available rotors.

Speed	500-15,000 Rpm (10 Rpm steps)
Rcf Max	22,000 G
Timer	0-99 Mins & Hold (30 sec steps)
Dims HWD	315 x 450 x 635mm
Weight	62 Kg (without rotor)
Power	690 Watts
Memory	10 programs
Accel rates	10 programs
Decel rates	10 programs
Temp	-9°C to + 40°C PID Controlled to + / -1°C

Microtube Rotors 15,000 Rpm



high Domed polycarbonate lid









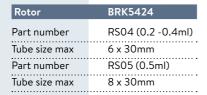
Rotor	BRK5424	BRK5436	BRK5448	BRK5494
Rotor type	24 x 2ml	36 x 0.5ml	48 x 0.2ml	4 x PCR Strips
Tube size max	11 x 50mm	8 x 30mm	6 x 40mm	6 x 40mm
Minimum Speed Rpm	500	500	500	500
Maximum Speed Rpm	15,000	15,000	15,000	15,000
Maximum Rcf (G)	22,000	22,000	22,000	22,000
Radius max cms	8.5	8.5	8.5	8.5
Sample tube angle (°)	45	45	45	45
Acceleration time (secs)	25	25	25	25
Deceleration time (secs)	25	25	25	25
Autoclavable (frequency)	121°C (10)	121°C (10)	121°C (10)	121°C (10)
Refrigerated Centrifuc	ges Only			

•	_	•			
Minimum Temperature	4°C	4°C	4°C	4°C	

At maximum speed (relative to room temperature at 23°C)

Reducers

(Pack of 24)



Haematocrit Rotor 12,000 Rpm



Rotor	BRK5401
Rotor type	24 x capillary & 12 x 2ml
Tube size max	2 x 75mm & 11 x 40mm
Minimum Speed Rpm	500
Maximum Speed Rpm	12,000
Maximum Rcf (G)	13,500
Radius max cms	8.5
Sample tube angle (°)	0 &60
Acceleration time (secs)	30
Deceleration time (secs)	30
Autoclavable (frequency)	121°C (10)

High Speed Fixed Angle Rotors 10,000 Rpm





BRK5212	BRK5206
12 x 15ml	6 x 50ml
17 x 120mm	30 x 120mm
500	500
10,000	10,000
10,600	10,600
9.5	9.5
30	30
35	35
35	35
121°C (20)	121°C (20)
	12 x 15ml 17 x 120mm 500 10,000 10,600 9.5 30 35

Refrigerated Centrifuges Only

Minimum Temperature 4°C 4°C

At maximum speed (relative to room temperature at 23°C)

Reducers

(Pack of 4)





BRK5212	BRK5206
RM05 (5ml)	RM15(15ml)
13 x 80mm	17 x 120mm
RM10 (10ml)	RM25 (25ml)
13 x 100mm	25 x 100mm
	RM05 (5ml) 13 x 80mm RM10 (10ml)

Large Fixed Angle Rotors 6,000 Rpm







Rotor	BRK5324	BRK5308	BRK5100
Rotor type	24 x 15ml	8 x 50ml	6 x 100ml
Size max	17 x 120mm	30 x 120mm	45 x 125mm
Minimum speed Rpm	500	500	500
Maximum speed Rpm	6,000	6,000	6,000
Maximum Rcf (G)	4,800	4,800	4,800
Radius max cms	12	12	12
Sample tube angle °	30	30	30
Acceleration time (secs)	35	35	35
Deceleration time (secs)	35	35	35
Autoclavable (frequency)	121°C (20)	121°C (20)	121°C (20)

Refrigerated Centrifuges Only

Minimum Temperature 4°C 4°C 4°C

At maximum speed (relative to room temperature at 23°C)

Reducers









Rotor	BRK5324	BRK5308	BRK5100
Part number	RM05 (5ml)	RM15 (15ml)	RL10 (10ml)
Tube size max	13 x 80mm	17 x 120mm	16 x 100mm
Part number	RM10 (10ml)	RM25 (25ml)	RL25 (25ml)
Tube size max	13 x 100mm	25 x 100mm	25 x 100mm
***************************************			RL50 (50ml)
***************************************			35 x 110mm
***************************************			RL85 (85ml)
•••••			39 x 110mm
•••••			

Swing Out Rotor 1 Litre Max



Shown with B5250 Buckets and sealed lids B5419

Rotor / buckets	BRK1025
Tube size max	62 x 100mm
Minimum speed	500Rpm
Maximum speed	4000Rpm
Maximum Rcf(G)	2650
Radius max	14cm
Tube angle	0 degree
Acceleration time	25 seconds
Deceleration time	25 seconds
Autoclavable (times)	121C (20)
Minimum Temperature	4C (at 23C ambient)

B5250 bucket (set 4) REQUIRED 250ml max per Bucket



Set of 4

Adaptors for Swing out rotors

	Capacity	Size	To fit buckets B5250			
			Part No.	Tubes per rotor		
g	Tube type: Micro with cap Shape: point					
	0.5m	8x20	AM605	40		
V	1.5ml	11x38	AM620	28		
	2.0ml	11x38	AM620	28		
	0.2ml	6x20	AM602	48		
	0.4ml	6x30	AM604	48		
			p Shape: rour			
			•			
ш	1ml	6x45	AR601	36		
00	3ml	10x60	AR603	28		
	5ml	12x75	AR605	28		
	6ml	12x82	AR605	28		
	7ml	12x100	AR607	28		
	9/10ml	14x100	AR609*	24		
	15ml	17x100	AR615*	28		
	25ml	24x100	AR625	8		
	50ml	34x100	AR650	4		
	100ml	45x100	AR6100	4		
	150ml	52x100	AR601			
	250ml	62x100	BUCKET 4			
	Tube type: F	alcon witl 17x120	h cap Shape: ¡ AF615*	ooint 16		
19:30	50ml			4		
VIV.		29x115	AF650*	4		
	175ml	61x118	AF6175*			
	15ml	17x120	N/A	4		
8			ith cap* Shap	e: point		
	250ml 500ml	60x172 98x148	See K242/R See K242/R			
EM .	Tube type: Falcon with cap Shape: square					
	12ml	17x100	AFS612*	16		
	25ml	25x90	AFS625*	8		
DM	30ml	25x110	AFS630	8		
	50ml	29x115	AFS650	4		
	15ml	17x120	AFS614	4		
-A	Tube type: Nalgene/Oakridge Shape: round					
19	10ml	16x80	ANO610	16		
UD.	30ml	26x95	ANO630	4		
	50ml	29x107	ANO650	4		
	100ml	38x106	ANO685	4		
1100			akridge* Sha	•		
99						
	250ml 750ml	62x130 98x153	Buckets 5250 See K243/R	4		
0			Shape: squar	·e		
Ö	1.1-1.4ml	8x82	AM6014	40		
	2.7-3ml	11x82	AM603	40		
X	2.6-2.9ml	13x81	AM629	40		
	4.5-5ml	11x108	AM603*	40		
	7.5-8.2ml	13x106	AM679*	40		
	4.5-5ml	15x100	AM650	28		
	4.5-5mi 9-10ml	15x92 16x108	AM690*	28 28		
п	Tube type: \	/acutainer		-		
1			· ·			
	1.6-5ml	13x75	AV616	40		
9	4-7ml	13x100	AV650	40		
	8.5-10ml	16x100	AV680	28		

Microtitor Plate Rotor $4 \times S$ tandard or $2 \times High Plates$



Buckets Complete with Sealed Lids Available with Rotor type 4 x STD Plates Tube size max 85mm x 128mm Minimum Speed Rpm 500 Rpm Maximum Speed Rpm 3500 Rpm Maximum Rcf (G) 2500 Radius max cms 14 Sample tube angle (°) 0 °C (10)	
Rotor type 4 x STD Plates Tube size max 85mm x 128mm Minimum Speed Rpm 500 Rpm Maximum Speed Rpm 3500 Rpm Maximum Rcf (G) 2500 Radius max cms 14 Sample tube angle (°) 0 °C (10)	buckets
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Maximum Rcf (G) 2500 Radius max cms 14 Sample tube angle (°) 0 °C (10)	
Radius max cms 14 Sample tube angle (°) 0 °C (10)	
Sample tube angle (°) 0 °C (10)	
A	
Acceleration time (secs) 30	
Deceleration time (secs) 30	
Autoclavable (frequency) 121°C (20)	

Swing out Rotor - 8 x 15ml Max



Rotor	BRK5508L
Buckets	Complete with buckets
Sealed Lids	N/A
Rotor type	8 x 15ml
Tube size max	17 x 125mm
Minimum Speed Rpm	500 Rpm
Maximum Speed Rpm	4,000 Rpm
Maximum Rcf (G)	2,600
Radius max cms	14.6
Sample tube angle (°)	0
Acceleration time (secs)	20
Deceleration time (secs)	20
Autoclavable (frequency)	121°C (20)



Cytology Rotor's available

Using centrifugal force to seperate and deposit a monolayer of cells onto slides whilst maintaining integrity within a clearly defined area FROM ANY FLUID MATRIX. Cyto centrifugation also constructively flattens cells for excellent nuclear presentation.

Applications include Cytology, Histolgy, Immunochemistry, Haematology, Oncology, Serology and Microbiology.

Offering samples from 0.1ml to 6ml and an extensive range of accessories we have your Cytolgogy needs covered.







		The second secon	
Rotor	4420	4430	4460
Rotor type	4 x 0.2 to 6ml	8 x 0.2 to 6ml	12 x 0.2 to 6ml
Tube size max	Single or double	Single or double	Single or double
Minimum speed Rpm	200	200	200
Maximum speed Rpm	2,000	2,000	2,000
Maximum Rcf (G)	550	550	550
Radius max cms	12	12	12
Sample tube angle °	0	0	0
Acceleration time (secs)	25	25	25
Deceleration time (secs)	25	25	25
Autoclavable (frequency)	121°C (20)	121°C (20)	121°C (20)

Cytology rotor includes Rotor, Sealed Lid, Clips, 24 holders with filter card & 100 slides

Pack of 24



4444

Single sample holder



4462

Stainless steel clips

4446

Double sample holder with card (up to 1ml)

with card (up to 1ml)

Double sample holder with card (up to 6ml)

4600

2016 Refrigerated Centrifuge temperature control

At Centurion, we have taken temperature control seriously. We keep the refrigeration unit and the refrigerated centrifuge running constantly, as this not only gives the compressor a longer and more reliable life, but stops the constant surges of start up power. Due to the fact that the refrigeration unit is running constantly, it is quite usual to see ice in the chamber even at above freezing temperatures.

For 2016, a new larger, yet more efficient CFC free compressor has been used which gives lower power needs. To maintain the temperature, we have a highly efficient compressor gas bypass solenoid valve, where we pulse heat via a highly accurate controller system (PID controller, which calculates and manages the temperature).

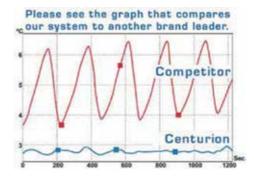
By running both in conjunction, you get better overall temperature control, achieving the desired set temperature. Imagine using a shower; you turn on both cold and hot water, adjusting to suit your desired temperature. You would not want to use one where you had to stand under the cold water, then the hot, then the cold in order to regulate the temperature.

Centurion has a set temperature of 3°C, and the competitor of 4°C

This allows us to separate the target areas, to show how each machine regulates the temperature. Both refrigeration units

use the same air probes, temperature units, and have the probes set at the same distance from the rotor, and finally, the correct vertical distance to the optimum tube area. But as you can see, we control to 0.5°C, whereas our competitor controls it to 3.5°C, the control of our centrifuge is unsurpassed, and our competitors', which all use the same method of turning the compressor on and off, is shown to have very poor control. Having the temperature being so controlled means that the Centurion's power usage is less, and the compressor lasts longer.

This system has been in use for over 20 years, so we do know the longevity of our products. Require complete accuracy with your samples? Purchase a Centurion Centrifuge for total peace of mind. Tried, tested and proven as one of the most accurate systems in the market place.





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Use the above details to contact us if this literature doesn't answer all your questions.

Pricing on any accessories shown can be found by keying the part number into the search box on our website.

The specifications listed in this brochure are subject to change by the manufacturer and therefore cannot be guaranteed to be correct. If there are aspects of the specification that must be guaranteed, please provide these to our sales team so that details can be confirmed.





