

### The K Series

The powerful K series are capable of high speeds and offer larger capacities including 1, 2 and 3 litre machines. Add to the mix our superb refrigeration centrifuges and you will find the K series offers you complete flexibility.

Quiet operation, LCD display with touch screen control, and a space saving design add to the desirable features. Our Centrifuges deliver optimum performance in compact units, designed for ease of use.

Quiet (below 60Db, rotor dependant) with low heat operation noise levels have been reduced while maintaining sample integrity with good airflow on our ambient models and fantastic temperature control on our refrigerated models.

Performance and safety are top of our agenda, tight operational control is maintained by the microprocessor. An imbalance sensor is incorporated into the control loop to bring to a controlled stop of the centrifuge in the case of a tube rupture or incorrect loading.

Centurion centrifuges have been an industry standard for quality and reliability for over 23 years. Whether at work in a clinical laboratory, a blood bank, clinical research lab, a winery, a university or an industrial setting, Centurion centrifuges can be relied upon to deliver safe, reproducible and trouble-free results for many years.

Centurion brand centrifugation products are part of a dedicated range of products and services designed to provide you with quality equipment and support.

### **Choosing The Right Centrifuge**

A centrifuge is a critical piece of equipment. Therefore, when the time comes to add new centrifuges or replace old models, it is important to make an informed decision. Bringing together technological and design excellence, Centurion have paved the way for a new generation of centrifuges.

# Centurion Scientific Ltd

K Series - K241/K241R Centrifuges



Welcome to our latest range, we trust you will find the following pages informative. With time comes experience and in our 24 years we have learnt that development is an ongoing sequence that is led by materials and analytical changes in the world. To this end, our development has improved user use, sample integrity and access. By working with all our suppliers, our reliability has been retained and improved to give all our range a **2 year warranty** as standard.







CE marked and ISO 9001 regulated and now IVD certified too

User features to K3 series	Advantages
Large LCD display with touch control	Clarity & ease of use
Rotor recognition	Safe selection of rotors
10 acceleration rates 10 deceleration rates	Sample assistance
108 memory (12 pages of 9)	Multi department & users
Timer O-9999 minutes & Hold in 1 second increments	Total flexibility
Pulse short run	Fast pelleting
Run in Speed (Rpm) or Rcf (G) in 1 Rpm increments	Accuracy
W2t Plots Time, Accel, Rpm and Decel	True sample repeatability
Sound <600b (rotor dependant)	Quiet
Orientation acceleration rate	Prevents initial sample side deposits

Standard to K3 series	Advantages
Extra thick Stainless steel bowl	Easy clean & rust free
Port to lid	Tachometer speed certification
Alloy & steel frame with composite's	Strong light & quiet
World leading Industrial grade Inverter	Reliability & strength
Best Quality European Brushless motor	Quiet, cool & reliable
High technology airflow (ambient models)	Cooler running
All centrifuges have user accessible service sections to ac	cess all safety parameters

Safety features to K3 series	Advantages
Multi point lid locking	Lid safety
Emergency lid release	Power failure release
Lid gas struts	Lid dropping safety
Lid lock detection	To run Lid must be shut
Imbalance detection	Easy "eye" volume loading
Overspeed Sensor	Safe detection of speed
Sec overver values	Electronic safety of speed
Buckerring	Extra metal protection of chamber
Moto-overheet Insor	Safe motor protection
ofrige ateo X3 series	Advantages

Arrige areo (3 series	Advantages
Variable from -Sitc +40°S with stand by cooling CF <sub>S</sub> fore RAC4A has	Flexibility (see rotors)
CPL from RIO4A res	Ozone friendly
Valve control of G	Efficient temperature control
PID control obvalve	Supreme temperature accuracy

Conturion Scientific Ltd centrologies comply to all relevant EU standards for Quality and medical Devices IEC 1010 and CE concernity (est marks Emission, immunity to EN/IEC 61326-1, Class B

# **K241** Ambient Centrifuge



Speed ......500-15000 Rpm

(1 Rpm steps)

Rcf max ......22,000 G

Timer.........0-9999 Mins & hold

(1 sec steps)

**Dimensions** ... HWD 310 x 400 x 500mm

Weight......31.6 Kg (without rotor)

Power......309 watts

Memory......108 programs

Accel rates ... 10

Decel rates ... 10

# **K241R** Refrigerated Centrifuge



Speed ......500-15000 Rpm

(1 Rpm steps)

Rcf max ......22,000 G

Timer.........0-9999 Mins & hold

(1 sec steps)

**Dimensions** ... HWD 315 x 450 x 635mm

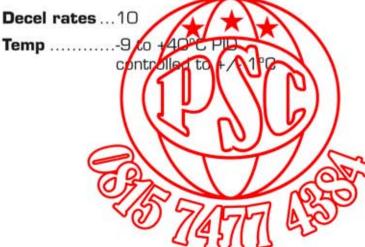
Weight........62.2 Kg (without rotor)

Power......448 watts

Memory......108 programs

Accel rates ... 10

Decel rates ... 10



# Index

### Page 6 Microtube Rotors 15,000 Rpm

Rotors	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	8 per strip

### Page 6 Haematocrit Rotor 12,000 Rpm

Rotor	BRK5401
Rotor type	24 x 2ml & 12 x 2ml
Tube size max	75 x 2mm Capillary & 11 x 40mm

### Page 7 High Speed Rotors 10,000 Rpm

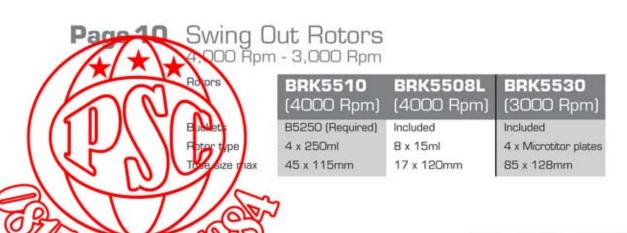
Rotors	BRK5212	BRK5206
Rotor type	12 x 15ml	6 x 50ml
Tube size max	17 x 120mm	30 x 120mm

### Page 8 Medium Speed Rotors 6000 Rpm

Rotors	BRK5324	BRK5308	BRK5100
Rotor type	24 x 15ml	8 x 50ml	6 x 100ml
Tube size max	17 x 120mm	30 x 120mm	45 x 125mm

# Page 9 Cytology Rotor 2000 Rpm

Rotor	4430	
Rotor type	8 x 0.2ml to 6.0ml	
Holders	Single or Double holder	



# Microtube Rotors 15,000 Rpm

### NEW

High dome sealed Polycarbonate lid included









Rotors	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	8 per strip
Minimum speed	500 Rpm	500 Rpm	500 Rpm	500 Rpm
Maximum speed	15,000 Rpm	15,000 Rpm	15,000 Rpm	15,000 Rpm
Maximum Rcf (G)	55000	22000	55000	55000
Radius max cms	8.75cms	8.75cms	8.75cms	8.75cms
Sample tube angle (o)	45	45	45	45
Acceleration time (secs)	50	20	20	50
Deceleration time (secs)	20	20	50	20
Autoclaveable (frequency)	121°C (20)	121°C (20)	121°C (20)	121°C (20)
Refrigerated	Centrifuge	s only	7.2	

# Reducers

Minimum Temperature 4°C



Rotor
Part number - Pack 24

Tube size max

Part number - Pack 24

Tube size max

BRK5424

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

**RS04** (0.2 - 0.4ml)

6 x 30mm

RS05 (0.5ml)

8 x 30mm

Haematocrit Rotor 12,000 Rpm

4°C

(frequency)



# Rotor BRK5401 Rotor type 24 x 2ml & 12 x 2ml Tube size max 75 2mm Caom 8 11 x 400mm Minimum speed 500 fmm Maximum speed 12 000 fmm Maximum Rcf (g) 16500 Radius max cms 8 4 cms Sample tube angle (a) 0 \$ 90 Acceleration time (secs) 80 Deceleration time (secs) 80 Autoclave able (21°C (20)

# Rotors 10,000 Rpm





Rotors	3
Rotor type	
Tube size max	
Minimum speed	1
Maximum speed	
Maximum Rcf (G)	
Radius max cms	1

12 x 15ml 17 x 120mm 500 Rpm 10,000 Rpm 10600 9.5 30 35 BRK5206

6 x 50ml

30 x 120mm

500 Rpm

10,000 Rpm

10600

9.5

30

35

121°C (30)

Refrigerated Centrifuges only

Minimum Temperature 4°C 4°C

121°C (30)

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

## Reducers

Sample tube angle [o]

Acceleration time (secs)

Deceleration time (secs) Autoclaveable (frequency)





Rotor	
Dent number Tuby syze mak	<b>\</b>
art number rum: sizemax	
147/16	')
	SET I
5741717	20
163111	

BRK5212 BRK5206

RM05 (5ml) RM15 (15ml)

13 x 80mm 17 x 120mm

RM10 (10ml) RM25 (25ml)

16 x 100mm 25 x 100mm

# Rotors 6000 Rpm







Rotors
Rotor type
Tube size max
Minimum speed
Maximum speed
Maximum Rcf (G)
Radius max cms
Sample tube angle (o)
Acceleration time (secs)
Deceleration time (secs)
Autoclaveable (frequency)

BRK5324
24 x 15ml
17 x 120mm
500 Rpm
6,000 Rpm
4800
12
30
35
OF.

Dillitoooo	
8 x 50ml	
30 x 120mm	
500 Rpm	
6,000 Rpm	
4800	
12	
30	
35	
35	
121°C (20)	

BRK5100

6 x 100ml
45 x 125mm
500 Rpm
6,000 Rpm
4800
12
30
35
35
121°C (20)

4°C

### Refrigerated Centrifuges only

Minimum Temperature 4°C 4°C
At maximum speed (relative to room temperature at 23°C)

121°C (20)

## Reducers



# Rotor Cytology

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

Applications include Cytology, Histology, Haematology, Oncology, Immunochemistry, Virology, Serology and Microbiology.

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

Rotor	4430
Rotor type	8 x 0.2ml to 6ml
Holders	Single or double
Minimum speed	200 Rpm
Maximum speed	2,000 Rpm
Maximum Rcf (G)	550
Radius max cms	12
Sample tube angle (o)	0
Acceleration time (secs)	25
Deceleration time (secs)	25
Autoclaveable (frequency)	121°C (10)

Cytology rotor includes Rotor, sealed lid, Clips, 24 x holders with filter card & 100 slides

### Refrigerated Centrifuges only

Minimum Temperature 0°

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



### Accessories



# Swing out rotors







Rotors	BRK5510	BRK5508L	BRK5530
Buckets	B5250 (set 4)	Complete with buckets	Complete with buckets
Sealed Lids	B5419	N/A	N/A
Rotor type	4 x 250ml	8 x 15ml	4 x microtitor plate
Tube size max	45 x 110mm	17 x 125mm	85 x 130mm
Minimum speed	500 Rpm	500 Rpm	500 Rpm
Maximum speed	4,000 Rpm	4,000 Rpm	3,000 Rpm
Maximum Rcf (G)	2600	2600	1250
Radius max cms	14.6	14.6	12.5
Sample tube angle (o)	0	0	0
Acceleration time (secs)	25	20	25
Deceleration time (secs)	25	50	25
Autoclaveable (frequency)	121°C (20)	121°C (20)	121°C (20)

# Refrigerated Centrifuges only

Minimum Temperature	4°C	4°C	4°C
At maximum eneed (relative to	coom temperature et 93°C 1		

Adaptors available - see opposite page.



	Adaptors for Swing out		rotors	Adaptors		
	Tube type	Shape Capacity		Size	To fit rotor B	
				WxH (mm)	Part nos	per rotor
0	Micro with cap	point	0.5ml	8x20	AM605	40
$\mathcal{Q}$	1960 200 Tel 1960 Tel		1.5ml	11x38	AM620	28
	Micro with cap	point		12 12 10 10 10 10 10 10 10 10 10 10 10 10 10		
	Micro with cap	point	2.0ml	11x38	AM620	28
V	Micro with cap	point	0.2ml	6x20	AM602	48
100	Micro with cap	point	0.4ml	6x30	AM604	48
	Plain No cap	round	1ml	6x45	AR601	48
		100 THE	202222			0.0076
	Plain No cap	round	3ml	10x60	AR603	32
	Plain No cap	round	5ml	12x75	AR605	32
-	Plain No cap	round	6ml	12x82	AR605	32
	Plain No cap	round	7ml	12x100	AR607*	32
	Plain No cap	round	9/10ml	14x100	AR609*	28
	Plain No cap	round	15ml	17x100	AR615*	28
	Plain No cap	round	25ml	24x100	AR625	12
	Plain No cap	round	50ml	34x100	AR650	4
	Plain No cap	round	100ml	45x100	AR6100	4
	Plain No cap		150ml	52x100	AR6150	
	[시시기] [1] [1] [1] [1] [1] [1] [1]	round				4
5)	Plain No cap	round	250ml	62x100	BUCKET	4
	PLEASE CAR	Date	45-1	47.400	AFCAF	
- 100	Falcon with cap	Point	15ml	17x120	AF615*	16
	Falcon with cap	Point	50ml	29x115	AF650*	4
3 3 1	Falcon with cap	Point	175ml	61x118	AF6175*	4
70	Falcon with cap	Point	15ml	17x120	AF614	4
<u>م</u>						
	Corning with cap*	Point	250ml	60x172	See K242/R	
	Corning with cap*	Point	500ml	98x148	See K242/R	
1						
	Falcon with cap	Square	12ml	17x100	AFS612*	16
3.0	Falcon with cap	Square	25ml	25x90	AFS625*	8
1.5	Falcon with cap		30ml	25x110	AFS630	8
100	[기	Square				
	Falcon with cap Falcon with cap	Square Square	50ml 50ml	29x115 17x120	AFS650 AFS614	4
2000		600,000,000	COMMO	20000000		
_ = = =	Nalgene/Oakridge	Round	10ml	16x80	AN0610	16
the III	Nalgene/Oakridge	Round	30ml	26x95	AN0630	4
пш	Nalgene/Oakridge	Round	50ml	29x107	AN0650	4
		27 1000	85ml		AN0685	
The same	Nalgene/Oakridge	Round	85ml	38x106	ANU685	4
93	Nalgene/Oakridge*	Flat	250ml	62x130	Buckets 5250	4
	Nalgene/Oakridge*					
	Naigene/Uaknoge*	Flat	750ml	98x153	See K243/R	
	Monovette	Square	1,1-1,4ml	8x82	AM6014	40
	Monovette		2.7-3ml	11x82	AM603	40
Ω		Square				10000000
Ħ	Monovette	Square	2.6-2.9ml	13x81	AM629	40
	Monovette	Square	4.5-5ml	11x108	AM603*	40
N	Monovette	Square	7.5-8.2ml	13x106	AM679*	40
1	Monovette	Square	4-5.5ml	15x92	AM650	28
70/	Monovette	Square	7.5-8.2ml	15x108	AM650*	28
M	Mynovette	Square	9-10.0ml	16x108	AM690*	28
				40.7-		
17	/acutainer	Round	1.6-5.0ml	13x75	AV616	40
10	Vacutainer Vacutainer	Round	4-7.0ml	13x100	AV650	40
		Round	8.5-10.0ml	16x100	AV680	28

Note: We cannot be held responsible if the tube manufacturers change design and/or size of the tube.

I have been provided bucket lids (B5419 and B5319).