

#### The C Series

Our C series range are compact and practical centrifuges for small to medium sample volumes, the largest in this range being our 1 litre machine. They are versatile, multi purpose and cost effective yet still benefiting from the superb build quality and engineering of our K series.

The range includes highperformance microcentrifuges, high speed and general purpose centrifuges. Centurion centrifuges, with their applications-oriented accessories, are proven favorites in clinical, molecular biology, cell biology and small medical laboratories

Our compact, ergonomic design: smaller dimensions, ergonomic height and curved features ensure comfortable and efficient workspace.

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 (K Series).

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, our 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**

### C Series Centrifuges



Built to last, strong construction yet offering a sleek modern design that will fit into any modern laboratory.

No compromises on quality, only the best components are used in the manufacturing process.

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 C2 series	Advantages
Bright blue LED display	Clarity & ease of use
Rotor recognition CR2000 & CR4000 only	Safe selection of rotors
10 acceleration rates 10 deceleration rates	Sample assistance
10 memory	Multi users
Timer 0-99 minutes & Hold in 30 second increments	Total flexibility
Pulse short run	Fast pelleting
Run in Speed (Rpm) or Rcf (G) in 10 Rpm increments	Accuracy
Sound <60Db (rotor dependant)	Quiet
Orientation acceleration rate	Prevents initial sample side deposits

Standard to C2 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 accessible	cess all safety parameters

Safety features to C2 series	Advantages
Multi point lid locking	Lid safety & ease
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
Set inverter values	Electronic safety of speed
Barrier ring	Extra metal protection of chamber
Motor overheat sensor	Safe motor protection

Centurion Scientific Ltd centrifuges comply to all relevant EU standards for Quality and medical Devices IEC 61010 and CE conformity test marks Emission, immunity to EN/IEC 61326-1, Class B

# Rotors Available To Each Centrifuge Type

**Rotor Recognition Centrifuges** 

**Rotor Recognition Centrifuges** 

# Fixed angle rotors

Part Number	Maximum Capacity	C2012	C2015	C2004	C2006	CR2000	CR4000
BRK5401	24 x Capillary & 12 x 2ml	•				•	
BRK5424	24 x 2ml	•	•			•	
BRK5436	36 x 0.5ml		•				
BRK5448	48 x 0.2- 0.4		•				
BRK5494	8 x Pcr strip		•				

# Fixed angle rotors

Rotor Recognition Centrifu						ion Centrifuges	
Part Number	Maximum Capacity	C2012	C2015	C2004	C2006	CR2000	CR4000
BRK5412	12 x 15ml				•	•	
BRK5406	6 x 50ml				•	•	
BRK5431	24 x 15ml			•			
BRK5434	8 x 50ml			•			
BRK5324	24 x 15ml						•
BRK5308	8 x 50ml						•

# Swing out rotors

Rotor Recognition Centrifuges							
Part Number	Maximum Capacity	C2012	C2015	C2004	C2006	CR2000	CR4000
BRK5505	4 x 100ml			•		•	
BRK5510	4 x 250ml						•
BRK5508S	8 x 7ml					•	
BRK5508L	8 x 15ml						•

# Cytology rotors

Part Number	Maximum Capacity	C2012	C2015	C2004	C2006	CR2000	CR4000
Cytology 4420	4 x double holders					•	•
Cytology 4430	8 x double holders					•	•

# Index

### Page 6 C2012 Haematocrit Centrifuge

12,000 Rpm - 13500 G max - 24 x 2ml max

Available Rotors BRK5401

 BRK5401
 BRK5424

 24 x Capillary/12x2ml
 24 x 2ml

Rotor type 24 x Capillary/12x2ml 24 x 2ml
Tube size max 75x2mm & 11 x 40mm 11 x 50mm

## Page 7 C2015 Microtube Centrifuge

15,000 Rpm - 22000 G max - 24 x 2ml max

Available Rotors	BRK5424	BRK5436	BRK5448	BRK5494
Rotor type	24 x 2ml	36 x 0.5ml	48 x 0.2-0.4ml	4 x 8PCRstrip
Tube size max	11 x 50mm	8 x 35mm	6 x 40 mm	Std strip

### Page 8 C2004 GP Centrifuge

4000 Rpm - 2200 G max - 4 x 100ml max

Available Rotors	BRK5505	BRK5431	BRK5434
Rotor type	4 x 100ml	24 x 15ml	8 x 50ml
Tube size max	45 x 100mm	17 x 120mm	30 x 120mm

### Page 9 C2006 GP Centrifuge

6000 Rpm - 3800 G max - 6 x 50ml max

Available Rotors	BRK5412	BRK5406
Rpm	6000 Rpm	6000 Rpm
Rotor type	12 x 15ml	6 x 50ml
Tube size max	17 x 120mm	30 x 120mm

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#### CR2000 Multi Rotor Centrifuge 2000 -12000 Rpm - 13500 G max - 4 x 100ml max

Available Rotors	BRK5505 (4000 Rpm)	BRK5508S (3000 Rpm)	4430 Cytology (2000 Rpm) 8 place
Rpm	4000 Rpm	4000 Rpm	2000 Rpm
Buckets	Adaptors (Required)	Included	4420 Cytology (2000 Rpm) 4 place
Rotor type	4 x100ml	8 x 10ml	8 or 4 place Cytology holder
Tube size max	45 x 100mm	15 x 100mm	8 or 4 Double holders
A Halala Datasa			

Available Rotors	BRK5412 (6000 Rpm)	BRK5406 (3000 Rpm)	BRK5401	BRK5424
Rpm	6000 Rpm	6000 Rpm	12000 Rpm	12000 Rpm
Rotor type	12 x15ml	6 x50ml	24x cap/ 12x2ml	24x2ml
Tube size max	17 x 120mm	30 x 120mm	75x2/11x35mm	11x50mm

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#### CR4000 Multi Rotor Centrifuge 2000 -12000 Rpm - 13500 G max - 4 x 250ml max

Available Rotors	BRK5510 (4000 Rpm)	BRK5508L (3000 Rpm)	4430 Cytology (2000 Rpm) 8 place
Rpm	4000 Rpm	4000 Rpm	2000 Rpm
Buckets	B5250 (Required)	Included	4420 Cytology (2000 Rpm) 4 place
Rotor type	4 x 250ml	8 x 15ml	8 or 4 place Cytology holder
Tube size max	62 x 130mm	17 x 120mm	8 or 4 Double holders
Available Rotors	BRK5324	BRK5308	
Rotor type	24 x 15ml	8 x 50ml	•
Tube size max	17 x 120mm	30 x 120mm	

# C2012 Haematocrit Centrifuge



**Speed** ......500-12000 Rpm

(10 Rpm steps)

**Rcf max** ......13,500 G

**Timer**......0-99 Mins & hold

(30 sec steps)

**Dims HWD** .....235 x 235 x 350mm

Weight......12.8 Kg (without rotor)

Power.....172 watts

Memory......10 programs

Accel rates ... 10 programs

Decel rates ... 10 programs

# Haematocrit & Microtube rotor





# **NEW**High dome sealed Polycarbonate lid included

Rotors

#### BRK5401

#### **BRK5424**

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)

24 x Capillary & 12 x 2ml 24 x 2ml 2 x 75mm & 11 x 40mm 11 x 50mm 500 Rpm 500 Rpm 12,000 Rpm 12,000 Rpm 13500 13500 8.75 0 & 60 45 30 20 20 30 121°C (20) 121°C (10)

### Accessories





8014 Sealing clay

Part Number	Description
8012	Plain Capillary tubes pack 1000
8013	Heperanised Capillary tubes pack 1000

# C2015 Microtube Centrifuge



**Speed** ......500-15000 Rpm

(10 Rpm steps)

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

**Timer**......0-99 Mins & hold

(30 sec steps)

**Dims HWD** .....235 x 235 x 350mm

Weight......12.8 Kg (without rotor)

Power.....172 watts

Memory......10 programs

Accel rates ... 10 programs

Decel rates ... 10 programs

# Microtube Rotors 15,000 Rpm

#### **NEW**

High dome sealed Polycarbonate lid included









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)

BRK5424
DRKJ424

45

20

20

121°C (20)

**BRK5436** 24 x 2ml 36 x 0.5ml 11 x 50mm 8 x 30mm 500 Rpm 500 Rpm 15,000 Rpm 15,000 Rpm 22000 22000 8.75cms 8.75cms 45 20

20

121°C (20)

# **BRK5448** 48 x 0.2ml

6 x 40mm 500 Rpm 15,000 Rpm 22000 8.75cms 45 20

20

121°C (20)

### **BRK5494** 4 x Pcr strips

8 per strip 500 Rpm 15,000 Rpm 22000 8.75cms 45 20 20 121°C (20)

### Reducers

Rotor

Part number Pack 24 Tube size max

Part number Pack 24 Tube size max

BRK5424 **RS04** (0.2 - 0.4ml) 6 x 30mm





# C2004 Medium Centrifuge



**Speed** ......500-4000 Rpm

(10 Rpm steps)

Rcf max ......2200 G

**Timer**......0-99 Mins & hold

(30 sec steps)

**Dims HWD** .....275 x 325 x 470mm

Weight......21.8 Kg (without rotor)

**Power**......125 watts

Memory......10 programs

Accel rates ... 10 programs

Decel rates ... 10 programs

# Rotors 4000 Rpm





**BRK5431 BRK5434** 

24 x 15ml 8 x 50ml Rotor type 17 x 120mm 30 x 120mm Tube size max 500 Rpm Minimum speed 500 Rpm Maximum speed 4,000 Rpm 4,000 Rpm 2200 2200 Maximum Rcf (G) Radius max cms 12.3 12.3 30 Sample tube angle (o) 30 35 Acceleration time (secs) 35 Deceleration time (secs) 35 35 Autoclaveable (frequency) 121°C (20) 121°C (20)

# Swing Out Rotors

Adaptors available see page15



Rotor

4 x 100ml Rotor type 45 x 100mm Tube size max 500 Rpm Minimum speed 4,000 Rpm Maximum speed 2200 Maximum Rcf (G) 12.3

Radius max cms 0 Sample tube angle (o)

25 Acceleration time (secs) Deceleration time (secs) 25

Autoclaveable (frequency) 121°C (20)

Sealed lids available set 4 Part Nos 5419

## Reducers

Rotors





BRK5434

**RM05** (5ml) Part number 13 x 80mm Tube size max

RM15 (15ml) 17 x 120mm

Part number Tube size max **RM10** (10ml) RM25 (25ml)

16 x 100mm

25 x 100mm

Rotor

# C2006 General Purpose Centrifuge



**Speed** ......500-6000 Rpm

(10 Rpm steps)

**Rcf max** ......3,800 G

**Timer**......0-99 Mins & hold

(30 sec steps)

**Dims HWD** .....275 x 325 x 470mm

Weight......21.8 Kg (without rotor)

Power.....80 watts

Memory......10 programs

Accel rates ... 10 programs

Decel rates ... 10 programs

# Rotors 6000 Rpm





#### Rotors

#### 12 x 15ml Rotor type 17 x 120mm Tube size max Minimum speed 500 Rpm Maximum speed 6,000 Rpm Maximum Rcf (G) 3800 Radius max cms 9.5 Sample tube angle (o) 30 Acceleration time (secs) 25 Deceleration time (secs)

### BRK5412 BRH

BRK5406

6 x 50ml

30 x 120mm

500 Rpm

6,000 Rpm

3800

9.5

30

25

Autoclaveable (frequency) 121°C (20)

121°C (20)

# Reducers





Rotor

Part number Tube size max

Part number Tube size max **RM05** (5ml)

**RM15** (15ml)

13 x 80mm

17 x 120mm

BRK5406

**RM10** (10ml)

**RM25** (25ml) 25 x 100mm

# CR2000 Multi Purpose Centrifuge Rotor Recognition - 4 x 100ml Max



**Speed** ......500-12,000 Rpm (10 Rpm steps)

**Rcf max** ...... 13,500 G

**Timer**......0-99 Mins & hold

(30 sec steps)

**Dims HWD** .....275 x 325 x 470mm

Weight......21.8 Kg (without rotor)

Power.....175 watts

Memory ......10 programs

Accel rates ... 10 programs

Decel rates ... 10 programs

### Cytology rotors available see page 14

# Swing Out Rotors

Adaptors available see page 15





Rotors	BRK5505	BRK5508S		
Rotor type	4 x 100ml	8 x 10ml		
Tube size max	45 x 100mm	15 x 100mm		
Minimum speed	500 Rpm	500 Rpm		
Maximum speed	4,000 Rpm	4,000 Rpm		
Maximum Rcf (G)	2200	2200		
Radius max cms	12.3	12.3		
Sample tube angle (o)	0	0		
Acceleration time (secs)	25	25		
Deceleration time (secs)	25	25		
Autoclaveable (frequency)	121°C (20)	121°C (20)		

## Rotors available to CR2000

# Rotors High Speed





**NEW** High dome sealed Polycarbonate lid included

#### Rotors

#### **BRK5401 BRK5424**

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) 121°C (10)

24 x Capillary/12 x 2ml 2 x 75mm/11 x 40mm 500 Rpm 12,000 Rpm

13500 8.5 0/60 25 25

500 Rpm 12,000 Rpm 13500 8.75 45 20 20

24 x 2ml

11 x 50mm

121°C (20)

# Rotors Medium Speed





#### Rotors

#### **BRK5412 BRK5406** 12 x 15ml 6 x 50ml Rotor type 17 x 120mm 11 x 40mm Tube size max Minimum speed 500 Rpm 500 Rpm Maximum speed 6,000 Rpm 6,000 Rpm 3,500 Maximum Rcf (G) 3,500 Radius max cms 8.5 8.5 35 Sample tube angle (o) 35 20 Acceleration time (secs) 20 Deceleration time (secs) 20 20 Autoclaveable (frequency) 121°C (10) 121°C (20)

## Reducers





Rotors

Part number Tube size max

Part number Tube size max **RM05** (5ml)

RM15 (15ml)

13 x 80mm

17 x 120mm

**RM10** (10ml) 16 x 100mm

RM25 (25ml)

25 x 100mm

# CR4000 Large Centrifuge Rotor Recognition - 4 x 250ml max



**Speed** ......500-6,000 Rpm

(10 Rpm steps)

**Rcf max** ......4.500 G

**Timer**......0-99 Mins & hold

(30 sec steps)

**Dims HWD** .....310 x 400 x 550mm

Weight......22 Kg (without rotor)

Power.....223 watts

Memory......10 programs

Accel rates ... 10 programs

Decel rates ... 10 programs

# Fixed Angle Rotors

# Swing Out Rotors Adaptors available see page 15









Rotors	BRK5324	BRK5308		
Rotor type	24 x 15ml	8 x 50ml		
Tube size max	17 x 120mm	30 x 120mm		
Minimum speed	500 Rpm	500 Rpm		
Maximum speed	6,000 Rpm	6,000 Rpm		
Maximum Rcf (G)	4800	4800		
Radius max cms	12	12		
Sample tube angle (o)	30	30		
Acceleration time (secs)	35	35		
Deceleration time (secs)	35	35		
Autoclaveable (frequency)	121°C (20) 121°C (20			

Rotors **BRK5510 BRK5508**I 8 x 15ml 4 x 250ml Rotor type Tube size max 62 x 130mm 17 x 120mm Minimum speed 500 Rpm 500 Rpm 4,000 Rpm 4,000 Rpm Maximum speed 2600 2600 Maximum Rcf (G) 14.5 14.5 Radius max cms Sample tube angle (o) 0 0 Acceleration time (secs) 35 25 Deceleration time (secs) 35 25 Autoclaveable (frequency) 121°C (20) 121°C (10)

Sealed lids available set 4 Part Nos 5419

### Reducers



# Cytology See page 14





Rotors	4420	4430			
Rotor type	4 x 0.2ml to 6ml	8 x 0.2ml to 6ml			
Tube size max	Single or Double	Single or Double			
Minimum speed	200 Rpm	200 Rpm			
Maximum speed	2,000 Rpm	2,000 Rpm			
Maximum Rcf (G)	550	550			
Radius max cms	12	12			
Sample tube angle (o)	0	0			
Acceleration time (secs)	25	25			
Deceleration time (secs)	25	25			
Autoclaveable (frequency)	121°C (20)	121°C (10)			

# 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.





Rotors	4420	4430
Rotor type	4 x 0.2ml to 6ml	8 x 0.2ml to 6ml
Holders	Single or double	Single or double
Minimum speed	200 Rpm	200 Rpm
Maximum speed	2,000 Rpm	2,000 Rpm
Maximum Rcf (G)	550	550
Radius max cms	12	12
Sample tube angle (o)	0	0
Acceleration time (secs)	25	25
Deceleration time (secs)	25	25
Autoclaveable (frequency)	121°C (10)	121°C (10)

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

#### Accessories



Double sample holder

with card (up to 1ml)







Single sample holder with card (up to 1ml)

Single sample holder with card (up to 6ml)

Stainless steel clips

	Adaptors	for Sv	ving out	rotors	Adap	tors	Adapt	ors
	Tube type	Shape	Capacity	Size	To fit rotor E		To fit rotor BF	
						Nos of tubes	Need buckets N	los of tubes
				WxH (mm)	Part nos	per rotor	Part nos	per rotor
@	Micro with cap	point	0.5ml	8x20	AM505	36	AM605	40
ħ	Micro with cap	point	1.5ml	11x38	AM520	24	AM620	28
	Micro with cap	point	2.0ml	11x38	AM520	24	AM620	28
	Micro with cap	point	0.2ml	6x20	AM502	36	AM602	48
	Micro with cap	point	0.4ml	6x30	AM504	36	AM604	48
	Plain No cap	round	1ml	6x45	AR501	36	AR601	48
	Plain No cap	round	3ml	10x60	AR503	28	AR603	32
	Plain No cap	round	5ml	12x75	AR505*	28	AR605	32
	Plain No cap	round	6ml	12x82	AR505*	28	AR605	32
	Plain No cap	round	7ml	12x100	AR507*	28	AR607*	32
	Plain No cap	round round	9/10ml 15ml	14x100	AR509*	24 8	AR609*	28 28
	Plain No cap		15mi 25mi	17x100 24x100	AR515* AR525*	8	AR615* AR625	28 12
	Plain No cap	round						
	Plain No cap	round	50ml	34x100	AR550*	4	AR650	4
	Plain No cap	round	100ml	45x100	AR5100*	4	AR6100	4
	Plain No cap	round	150ml	52x100	N/A	N/A	AR6150	4
	Plain No cap	round	250ml	62x100	N/A	N/A	BUCKET	4
	Falcon with cap	Point	15ml	17x120	AF515*	8	AF615*	16
	Falcon with cap	Point	50ml	29x115	AF550*	4	AF650*	4
	Falcon with cap	Point	175ml	61x118	N/A	N/A	AF6175*	4
	Falcon with cap	Point	15ml	17x120	N/A	N/A	AF614	4
	. a.eer mar eap				,	,	7 0 7 7	-
	Corning with cap*	Point	250ml	60x172	See K242/R		See K242/R	
	Corning with cap*	Point	500ml	98x148	See K242/R		See K242/R	
	Corning with cap	romo	0001111	00x 1-10	OCC RE-FE/ II		OCC RE-E/II	
		_				_		
	Falcon with cap	Square	12ml	17x100	AFS512*	8	AFS612*	16
= =	Falcon with cap	Square	25ml	25x90	AFS525	4	AFS625*	8
ΙΞΙ	Falcon with cap	Square	30ml	25x110	AFS530	4	AFS630	8
	Falcon with cap	Square	50ml	29x115	AFS550*	4	AFS650	4
	Falcon with cap	Square	50ml	17x120	N/A	N/A	AFS614	4
	1					_		
	Nalgene/Oakridge	Round	10ml	16x80	AN0510*	8	ANO610	16
	Nalgene/Oakridge	Round	30ml	26x95	AN0530*	4	AN0630	4
	Nalgene/Oakridge	Round	50ml	29x107	AN0550*	4	AN0650	4
4 1	Nalgene/Oakridge	Round	85ml	38x106	AN0585	4	AN0685	4
	Nalgene/Oakridge*	Flat	250ml	62x130	See K241/R		Buckets 5250	4
	Nalgene/Oakridge*	Flat	750ml	98x153	See K243/R		See K243/R	•
	. Laigono, Gaid lago	1.00		30, 100	300 KE-10/ N		200 12270/11	
	l	_						
	Monovette	Square	1.1-1.4ml	8x82	AM5014	24	AM6014	40
	Monovette	Square	2.7-3ml	11x82	AM503	24	AM603	40
	Monovette	Square	2.6-2.9ml	13x81	AM529	24	AM629	40
	Monovette	Square	4.5-5ml	11x108	AM503*	24	AM603*	40
	Monovette	Square	7.5-8.2ml	13x106	AM579*	24	AM679*	40
W W	Monovette	Square	4-5.5ml	15x92	AM550*	20	AM650	28
-	Monovette	Square	7.5-8.2ml	15x108	AM550*	20	AM650*	28
	Monovette	Square	9-10.0ml	16x108	AM590*	20	AM690*	28
	Vacutainer	Round	1.6-5.0ml	13x75	AV516*	24	AV616	40
	Vacutainer	Round	4-7.0ml	13x100	AV550*	16	AV650	40
	Vacutainer	Round	8.5-10.0ml	16x100	AV580*	12	AV680	28
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Note:- We cannot be held responsible if the tube manufacturers change design and/or size of the tube.  $\star$  Limited capacity with sealed bucket lids (B5419 and B5319).















