Centurion Scientific Ltd

Benchtop Centrifuges

K Series K241/K241R

1 litre max



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



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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.



Advantages Clarity & ease of use Safe selection of rotors Sample assistance Multi department & users

Total flexibility Fast pelleting Accuracy

Quiet.

True sample repeatability

Prevents initial sample side deposits

CE marked and ISO 9001 regulated and now IVD certified too

	User teatures to K3 series
	Large LCD display with touch control
	Rotor recognition
	10 acceleration rates 10 deceleration rates
	108 memory (12 pages of 9)
1	Timer O-9999 minutes & Hold in 1 second increments
	Pulse short run
	Run in Speed (Rpm) or Rcf (G) in 1 Rpm increments
	W2t Plots Time, Accel, Rpm and Decel
	Sound <60Db (rotor dependant)
	Orientation acceleration rate

Standard to K3 series

Extra thick Stainless steel bowl Port to lid Alloy & steel frame with composite's World leading Industrial grade Inverter Best Quality European Brushless motor High technology airflow (ambient models)

All centrifuges have user accessible service sections to access all safety parameters

Safety features to K3 series

Multi point lid locking Emergency lid release Lid gas struts Lid lock detection Imbalance detection Overspeed Sensor Set inverter values Barrier ring Motor overheat sensor

Refrigerated K3 series

Variable from -9 to +40°C with stand by cooling CFC free R404A gas Valve control of Gas PID control of valve

Strong light & quiet Reliability & strength

Advantages

Easy clean & rust free

Tachometer speed certification

Quiet, cool & reliable Cooler running

Advantages

Lid safety Power failure release Lid dropping safety To run Lid must be shut Easy "eye" volume loading Safe detection of speed Electronic safety of speed Extra metal protection of chamber Safe motor protection

Advantages Flexibility (see rotors)

Ozone friendly Efficient temperature control Supreme temperature accuracy

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

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



-	500-15000 Rpm (1 Rpm steps)
Rcf max	22,000 G
	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
	-9 to +40°C PID controlled to +/- 1°C

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Page 6	Microtube Rotors 15,000 Rpm				
	Rotors	BRK5424	BRK5436	BRK544	8 BRK5494
	Rotor type Tube size max	24 x 2ml 11 x 50mm	36 x 0.5ml 8 x 30mm	48 x 0.2ml 6 x 40mm	4 x Pcr strips 8 per strip
Page 6	Haemato Rotor Rotor type Tube size max	24 x 2ml & 12 75 x 2mm Cap & 11 x 40mm	2 x 2ml billary) Rpm	
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Page 9	Cytology Rotor Rotor type Holders	Rotor 20 4430 8 x 0.2ml to 6 Single or Doub	.Oml		
Page 10	Swing Ou 4,000 Rpm - Rotors Buckets Rotor type Tube size max	BRK5510 (4000 Rpm) B5250 (Required) 4 x 250ml 45 x 115mm	BRK5508L (4000 Rpm) Included 8 x 15ml 17 x 120mm	BRK553 (3000 Rp Included 4 x Microtitor p 85 x 128mm	m)

Microtube Rotors 15,000 Rpm

NEW High dome sealed Polycarbonate lid included	Are 5524	() NY 5530	Contraction of the second	() Ar sup
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)	22000	22000	22000	22000
Radius max cms	8.75cms	8.75cms	8.75cms	8.75cms
Sample tube angle (o)	45	45	45	45
Acceleration time (secs)	20	20	20	20
Deceleration time (secs)	20	20	20	20
Autoclaveable (frequency)	121°C (20)	121°C (20)	121°C (20)	121°C (20)

4°C

Refrigerated Centrifuges only

Minimum Temperature 4°C

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

Reducers

Haematocrit Rotor 12,000 Rpm

4⁰C



Rotor

4°C

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

BRK5401

13500 8.4cms 0 & 60

30 30

121°C (20)

	0
Rotor	BRK5424
Part number - Pack 24	RSO4 (0.2 - 0.4m
Tube size max	6 x 30mm
Part number - Pack 24	RS05 (0.5ml)
Tube size max	8 x 30mm

Rotors 10,000 Rpm

Rotors	BRK5212	BRK5206		
Rotor type	12 x 15ml	6 x 50ml		
Tube size max	17 x 120mm	30 x 120mm		
Minimum speed	500 Rpm	500 Rpm		
Maximum speed	10,000 Rpm	10,000 Rpm		
Maximum Rcf (G)	10600	10600		
Radius max cms	9.5	9.5		
Sample tube angle (o)	30	30		
Acceleration time (secs)	35	35		
Deceleration time (secs)	35	35		
Autoclaveable (frequency)	121°C (30)	121°C (30)		
Refrigerated Centrifuges only				

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

Reducers



4°C

Rotor

Part number Tube size max

Part number Tube size max

Rotors 6000 Rpm



	0	,
Refrigerated	Centrituaes	only
i ion igoi acea	een agee	Unity

35

121°C (20)

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

35

121°C (20)

35

121°C (20)

Reducers

Deceleration time (secs)

Autoclaveable (frequency)



Rotor

Part number Tube size max

Part number

Tube size max

Part number

Tube size max

Part number Tube size max

K241/K241R K series

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

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)	

4430

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

Refrigerated Centrifuges only

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



Accessories



4446

Double sample holder with card (up to 1ml)



4444

Single sample holder with card (up to 1ml)



4600 Single sample holder

with card (up to 6ml)



Stainless steel clips

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	62 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	20	25		
Autoclaveable (frequency)	121°C (20)	121°C (20}	121°C (20)		
Deficiented Contrifuces only					

Refrigerated Centrifuges only

4°C 4ºC Minimum Temperature

4°C

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

Adaptors available - see opposite page.

	Adaptors	for Sv	ving out I	rotors	Adaptors	
	Tube type	Shape	Capacity	Size	To fit rotor BRK5510 Need buckets Nos of tubes	
				WxH (mm)		os of tubes per rotor
a	Micro with cap	point	0.5ml	8x20	AM605	40
<u> </u>	Micro with cap	point	1.5ml	11x38	AM620	28
	Micro with cap	point	2.0ml	11x38	AM620	28
	Micro with cap	point	0.2ml	6x20	AM602	48
U	Micro with cap	point	0.4ml	6x30	AM604	48
	Plain No cap	round	1ml	6x45	AR601	48
	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	100mi 150mi	45x100	AR6100	4
	Plain No cap Plain No cap	round round	150ml 250ml	52x100 62x100	AR6150 BUCKET	4
	Plain No cap	round	250m	62X 100	BUCKET	4
	Falcon with cap	Point	15ml	17x120	AF615*	16
	Falcon with cap	Point	50ml	29x115	AF650*	4
	Falcon with cap	Point	175ml	61x118	AF6175*	4
	Falcon with cap	Point	15ml	17x120	AF614	4
	Corning with cap*	Point	250ml	60x172	See K242/R	
	Corning with cap*	Point	500ml	98x148	See K242/R	
\square						
	Falcon with cap	Square	12ml	17x100	AFS612*	16
	Falcon with cap	Square	25ml	25x90	AFS625*	8
Ē	Falcon with cap	Square	30ml	25x110	AFS630	8
	Falcon with cap	Square	50ml	29x115	AFS650	4
	Falcon with cap	Square	50ml	17x120	AFS614	4
	Nalgene/Oakridge	Round	10ml	16x80	AN0610	16
	Nalgene/Oakridge	Round	30ml	26x95	AN0630	4
	Nalgene/Oakridge	Round	50ml	29x107	AN0650	4
ЧP	Nalgene/Oakridge	Round	85ml	38x106	AN0685	4
, O						
8P	Nalgene/Oakridge*	Flat	250ml	62x130	Buckets 5250	4
	Nalgene/Oakridge*	Flat	750ml	98x153	See K243/R	-
	Monovette	Square	1.1-1.4ml	8x82	AM6014	40
0	Monovette	Square	2.7-3ml	11x82	AM603	40
	Monovette	Square Square	2.6-2.9ml	13x81	AM629	40
	Monovette Monovette	Square Square	4.5-5ml 7 5-8 2ml	11x108	AM603*	40 40
Ų	Monovette	Square Square	7.5-8.2ml 4-5.5ml	13x106 15x92	AM679* AM650	40 28
4	Monovette	Square	4-5.5m 7.5-8.2ml	15x32 15x108	AM650*	28
	Monovette	Square	9-10.0ml	16x108	AM690*	28
	l					
	Vacutainer	Round	1.6-5.0ml	13x75	AV616	40
	Vacutainer	Round	4-7.0ml	13x100	AV650	40
	Vacutainer	Round	8.5-10.0ml	16x100	AV680	28
U						

Note:- We cannot be held responsible if the tube manufacturers change design and/or size of the tube. * Limited capacity with sealed bucket lids (B5419 and B5319).

Other ranges available - please ask for details



K2015/K2015R



K242/K242R



K243/K243R



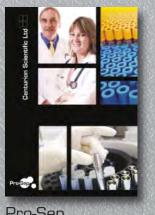
C2 Series



Cytology



Cell Washer



Pro-Sep



Pro-Vet

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Centurion Scientific Ltd email: info@centurionscientific.co.uk www.centurionscientific.co.uk