

**Centurion
Scientific Ltd**

Benchtop Centrifuges

C Series



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 high-performance 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.

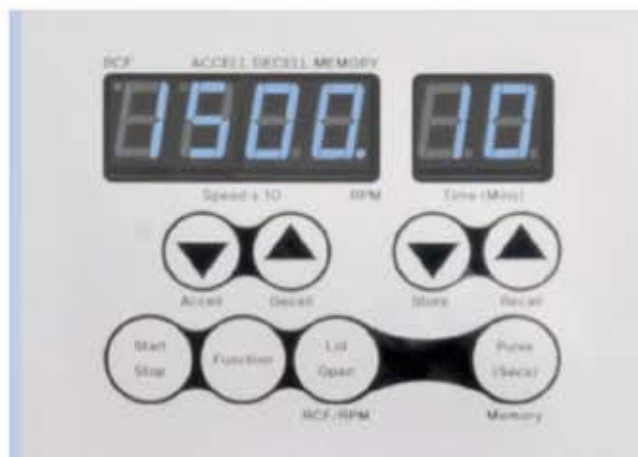
Choosing The Right Centrifuge

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 access 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 Shut off	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

Fixed angle rotors

Part Number	Maximum Capacity	Rotor Recognition Centrifuges					
		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

Part Number	Maximum Capacity	Rotor Recognition Centrifuges					
		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

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



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Page 6 C2012 Haematocrit Centrifuge 12,000 Rpm - 13500 G max - 24 x 2ml max

Available Rotors	BRK5401	BRK5424
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

Pages 10 & 11 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

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

Pages 12 & 13 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	85250 (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	24 x Capillary & 12 x 2ml	24 x 2ml
Tube size max	2 x 75mm & 11 x 40mm	11 x 50mm
Minimum speed	500 Rpm	500 Rpm
Maximum speed	12,000 Rpm	12,000 Rpm
Maximum Rcf (G)	13500	13500
Radius max cms	8.5	8.75
Sample tube angle (o)	0 & 60	45
Acceleration time (secs)	30	20
Deceleration time (secs)	30	20
Autoclaveable (frequency)	121°C (10)	121°C (20)

Accessories



8003 PCV reader



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

	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)

Reducers

Rotor	BRK5424
Part number Pack 24	RS04 (0.2 - 0.4ml)
Tube size max	6 x 30mm
Part number Pack 24	RS05 (0.5ml)
Tube size max	8 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



Rotors

	BRK5431	BRK5434
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	4,000 Rpm	4,000 Rpm
Maximum Rcf (G)	2200	2200
Radius max cms	12.3	12.3
Sample tube angle (°)	30	30
Acceleration time (secs)	35	35
Deceleration time (secs)	35	35
Autoclaveable (frequency)	121°C (20)	121°C (20)

Swing Out Rotors

Adaptors available see page 15



Rotor

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

Sealed lids available set 4 Part Nos 5419

Reducers



Rotor

	BRK5431	BRK5434
Part number	RM05 (5ml)	RM15 (15ml)
Tube size max	13 x 80mm	17 x 120mm
Part number	RM10 (10ml)	RM25 (25ml)
Tube size max	16 x 100mm	25 x 100mm



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

	BRK5412	BRK5406
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	6,000 Rpm	6,000 Rpm
Maximum Rcf (G)	3800	3800
Radius max cms	9.5	9.5
Sample tube angle (°)	30	30
Acceleration time (secs)	25	25
Deceleration time (secs)	25	25
Autoclaveable (frequency)	121°C (20)	121°C (20)

Reducers



	BRK5412	BRK5406
Rotor	BRK5412	BRK5406
Part number	RM05 (5ml)	RM15 (15ml)
Tube size max	13 x 80mm	17 x 120mm
Part number	RM10 (10ml)	RM25 (25ml)
Tube size max	16 x 100mm	25 x 100mm



CR2000 Multi Purpose Centrifuge

Rotor Recognition - 4 x 100ml Max



Speed500-12,000 Rpm
(10 Rpm steps)

Rcf max13,500 G

Timer0-99 Mins & hold
(30 sec steps)

Dims HWD275 x 325 x 470mm

Weight21.8 Kg (without rotor)

Power175 watts

Memory10 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 (°)	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	24 x Capillary/12 x 2ml	24 x 2ml
Tube size max	2 x 75mm/11 x 40mm	11 x 50mm
Minimum speed	500 Rpm	500 Rpm
Maximum speed	12,000 Rpm	12,000 Rpm
Maximum Rcf (G)	13500	13500
Radius max cms	8.5	8.75
Sample tube angle (o)	0/60	45
Acceleration time (secs)	25	20
Deceleration time (secs)	25	20
Autoclaveable (frequency)	121°C (10)	121°C (20)

Rotors Medium Speed



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

Reducers



Rotors	BRK5412	BRK5406
Part number	RM05 (5ml)	RM15 (15ml)
Tube size max	13 x 80mm	17 x 120mm
Part number	RM10 (10ml)	RM25 (25ml)
Tube size max	16 x 100mm	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



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 (°)	30	30
Acceleration time (secs)	35	35
Deceleration time (secs)	35	35
Autoclaveable (frequency)	121°C (20)	121°C (20)

Swing Out Rotors

Adaptors available see page 15



Rotors

BRK5510 **BRK5508L**

Rotor type	4 x 250ml	8 x 15ml
Tube size max	62 x 130mm	17 x 120mm
Minimum speed	500 Rpm	500 Rpm
Maximum speed	4,000 Rpm	4,000 Rpm
Maximum Rcf (G)	2600	2600
Radius max cms	14.5	14.5
Sample tube angle (°)	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



Rotors

BRK5324 BRK5308

Part number	RM05 (5ml)	RM15 (15ml)
Tube size max	13 x 80mm	17 x 120mm
Part number	RM10 (10ml)	RM25 (25ml)
Tube size max	16 x 100mm	25 x 100mm





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 (°)	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

Rotor type

Holders

Minimum speed

Maximum speed

Maximum Rcf (G)

Radius max cms

Sample tube angle (°)

Acceleration time (secs)

Deceleration time (secs)

Autoclaveable (frequency)

4420

4 x 0.2ml to 6ml

Single or double

200 Rpm

2,000 Rpm

550

12

0

25

25

121°C (10)

4430

8 x 0.2ml to 6ml

Single or double

200 Rpm

2,000 Rpm

550

12

0

25

25

121°C (10)

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

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)



4462

Stainless steel clip



Adaptors for Swing out rotors

Adaptors

Adaptors

Tube type	Shape	Capacity	Size	To fit rotor	BRK5505	Nos of tubes	To fit rotor	BRK5510	Need buckets	Nos of tubes
			WxH (mm)	Part nos		per rotor	Part nos			per rotor
	Micro with cap	point	0.5ml	8x20	AM505	36	AM605	40		
	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	9/10ml	14x100	AR509 *	24	AR609 *	28		
	Plain No cap	round	15ml	17x100	AR515 *	8	AR615 *	28		
	Plain No cap	round	25ml	24x100	AR525 *	8	AR625	12		
	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		
	Corning with cap *	Point	250ml	60x172	See K242/R		See K242/R			
	Corning with cap *	Point	500ml	98x148	See K242/R		See K242/R			
	Falcon with cap	Square	12ml	17x100	AFS512 *	8	AFS612 *	16		
	Falcon with cap	Square	25ml	25x90	AFS525	4	AFS625 *	8		
	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		
	Nalgene/Oakridge	Round	10ml	16x80	ANO510 *	8	ANO610	16		
	Nalgene/Oakridge	Round	30ml	26x95	ANO530 *	4	ANO630	4		
	Nalgene/Oakridge	Round	50ml	29x107	ANO550 *	4	ANO650	4		
	Nalgene/Oakridge	Round	85ml	38x106	ANO585	4	ANO685	4		
	Nalgene/Oakridge *	Flat	250ml	62x130	See K241/R		Buckets 5250	4		
	Nalgene/Oakridge *	Flat	750ml	98x153	See K243/R		See K243/R			
	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		
	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		

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