Floor Standing Centrifuge

True Flexibility

User features to Floor Standing Centrifuge	Advantages
Floor standing Yet under bench fit, only 71cm high	Saves precious bench space, Flexible area use
Smaller footprint than Bench model	Space saving R models 30% smaller footprint
Gives an easy loading height	Ease of Ergonomics For tube and rotor variances
Secure locking castors	Portable, easily moved around for safety

Available in both Ambient and Refrigerated models

K244FS/R Floor Standing Centrifuge (4L Max)

Display indicative only

K244FS Ambient

K244FS.(230V 50/60Hz). 1.K244FS.(110V 60Hz)

Speed	500-15,000 Rpm (1 Rpm steps)
Rcf Max	22,000 G
Timer	0-9999 Mins & Hold (1 sec steps)
Dimensions	HWD 710 x 650 x 630mm
Weight	80 Kg (without rotor)
Power	750 Watts
Memory	108 programs
Accel rates	10 programs
Decel rates	10 programs

K244RFS Refrigerated

K244FSR.(230V 50Hz). 1.K244FSR.(110V 60Hz). 2.K244FSR.(230V 60Hz)

Speed	500-15,000 Rpm (1 Rpm steps)
Rcf Max	22,000 G
Timer	0-9999 Mins & Hold (1 sec steps)
Dimensions	HWD 710 x 650 x 630mm
Weight	125 Kg (without rotor)
Power	1200 Watts
Memory	108 programs
Accel rates	10 programs
Decel rates	10 programs
Temp	-9°C to + 40°C PID Controlled to + / - 1°C

The following pages show available rotors.

Swing Out Rotor - 4 Litre max

BRK3000 Swing out rotor

Shown with B4000 buckets and sealed lids B5319

Rotor / buckets	BRK3040
Tube size max	98 x 180mm
Minimum speed	500Rpm
Maximum speed	4000Rpm
Maximum Rcf(G)	4500
Radius max	25.5cm
Tube angle	0 degree
Acceleration time	45 seconds
Deceleration time	45 seconds
Autoclavable (times)	121C (20)
Minimum Temperature	4C (at 23C ambient)

B4000 bucket (set 4) REQUIRED
1000ml max per bucket

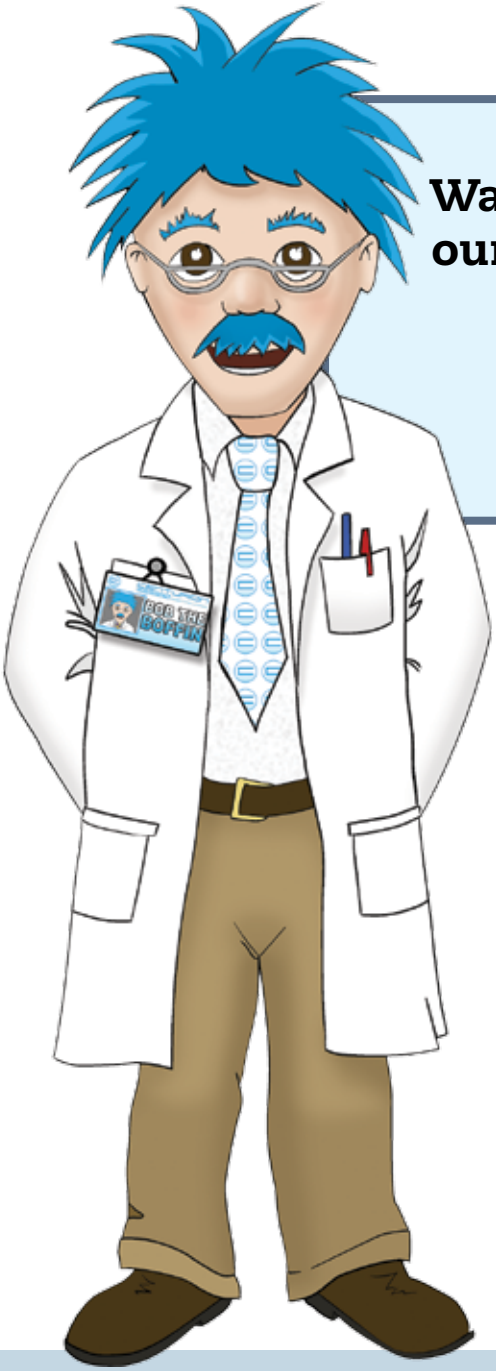
B5319 Sealed Lids (4)

Set of 4

Adaptors for Swing out rotors

Capacity	Size	To fit buckets B4000 Part No.	Tubes per rotor
Tube type: **Micro with cap** Shape: **point**			
0.5m	8x20	AM805	120
1.5ml	11x38	AM820	84
2.0ml	11x38	AM820	84
0.2ml	6x20	AM802	168
0.4ml	6x30	AM805	168
Tube type: **Plain no cap** Shape: **round**			
1ml	6x45	AR801	168
3ml	10x60	AR803	96
5ml	12x75	AR805	96
6ml	12x82	AR805	96
7ml	12x100	AR807	96
9/10ml	14x100	AR809	84
15ml	17x100	AR815	48
25ml	24x100	AR825	28
50ml	34x100	AR850	16
100ml	45x100	AR8100	8
150ml	52x100	AR8150	4
250ml	62x100	AR8250	4
Tube type: **Falcon with cap** Shape: **point**			
15ml	17x120	AF815	48
50ml	29x115	AF850	16
175ml	61x118	AF8175	4
15ml	17x120		
Tube type: **Corning with cap*** Shape: **point**			
250ml	60x172	AF8250	4
500ml	98x148	AF8500	4
Tube type: **Falcon with cap** Shape: **square**			
12ml	17x100	AFS812	48
25ml	25x90	AFS825	28
30ml	25x110	AFS830	28
50ml	29x115	AFS850	20
15ml	17x120	AFS850	48
Tube type: **Nalgene/Oakridge** Shape: **round**			
10ml	16x80	ANO810	48
30ml	26x95	ANO830	28
50ml	29x107	ANO850	24
100ml	38x106	ANO885	12
Tube type: **Nalgene/Oakridge*** Shape: **flat**			
250ml	62x130	ANO8250	4
750ml	98x153	ANO8750	4
Tube type: **Monovette** Shape: **square**			
1.1-1.4ml	8x82	AM8014	96
2.7-3ml	11x82	AM803	76
2.6-2.9ml	13x81	AM829	76
4.5-5ml	11x108	AM803	76
7.5-8.2ml	13x106	AM879	76
4.5-5ml	15x92	AM850	64
9-10ml	16x108	AM890	64
Tube type: **Vacutainer** Shape: **round**			
1.6-5ml	13x75	AV816	76
4-7ml	13x100	AV850	76
8.5-10ml	16x100	AV880	64

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



Watch this space for our Blood Bag Rotor. Release date: mid/late 2016!

CENTURION SCIENTIFIC LIMITED

High Speed Fixed Angle Rotors 10,000 Rpm

Rotor	BRK5224	BRK5208	BRK5210	BRK5256
Rotor type	24 x 15ml	8 x 50ml	6 x 100ml	6 x 250ml
Size max	17 x 120mm	30 x 120mm	45 x 125mm	62 x 130mm
Minimum speed Rpm	500	500	500	500
Maximum speed Rpm	10,000	10,000	10,000	10,000
Maximum Rcf (G)	13,400	13,400	13,400	15,650
Radius max cms	12	12	12	14
Sample tube angle °	30	30	30	30
Acceleration time (secs)	40	45	45	60
Deceleration time (secs)	40	45	45	85
Autoclavable (frequency)	121°C (20)	121°C (20)	121°C (20)	121°C (20)

Refrigerated Centrifuges Only

Minimum Temperature	4°C	4°C	4°C	4°C

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

Reducers


Pack of 4


Pack of 4


Pack of 6


Pack of 4

Rotor	BRK5224	BRK5208	BRK5210	BRK5256
Part number	RM05 (5ml)	RM15 (15ml)	RL10 (10ml)	RX10 (10ml)
Tube size max	13 x 80mm	17 x 120mm	16 x 100mm	16 x 100mm
Part number	RM10 (10ml)	RM25 (25ml)	RL25 (25ml)	RX25 (25ml)
Tube size max	13 x 100mm	25 x 100mm	25 x 100mm	25 x 100mm
			RL50 (50ml)	RX50 (50ml)
			35 x 110mm	35 x 110mm
			RL85 (85ml)	RX85 (85ml)
			39 x 110mm	39 x 110mm
				RX100 (100ml)
				48 x 110mm
				RX175 (175ml)
				62 x 121mm

Microtube Rotors 15,000 Rpm

With NEW 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 Centrifuges 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)

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

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)

Microtitor Plate Rotor 4 x Standard or 2 x High Plates

Rotor	BRK5540
Buckets	Complete with buckets
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)
Acceleration time (secs)	30
Deceleration time (secs)	30
Autoclavable (frequency)	121°C (20)

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


Pack of 4


Pack of 4


Pack of 6

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

Why Purchase our Research Range?

Technical

Speed	Parameters to 1 Rpm
Rcf(g)	Paramaters to 1 G
Time	Paramaters to 1 second and 0 to 9999 minutes plus Hold
Pulse or Fast	Hold Pulse button, timer counts up in seconds
Acceleration	Ten rates from Fast to slow
Deceleration	Ten Rates from Fast to slow (non power)
Programs	12 pages (allowing separate departments) of 9 programs each Allowing total 108 programs in total.
W2t	Accurate means of separation (normally is only available to Ultra Centrifuges)
Orientation	First 200 Rpm at slow speed thus allowing sample particles to orientate their pathway (as perfected at Surrey University)

Use

180 mm Touch Screen LCD

Selectable Buzzer for Run end notification

Rotor recognition with a huge selection of rotors for every model (Prime)

Quiet in operation. Below 60Db

For Safety and Refrigerated Details please see page 3

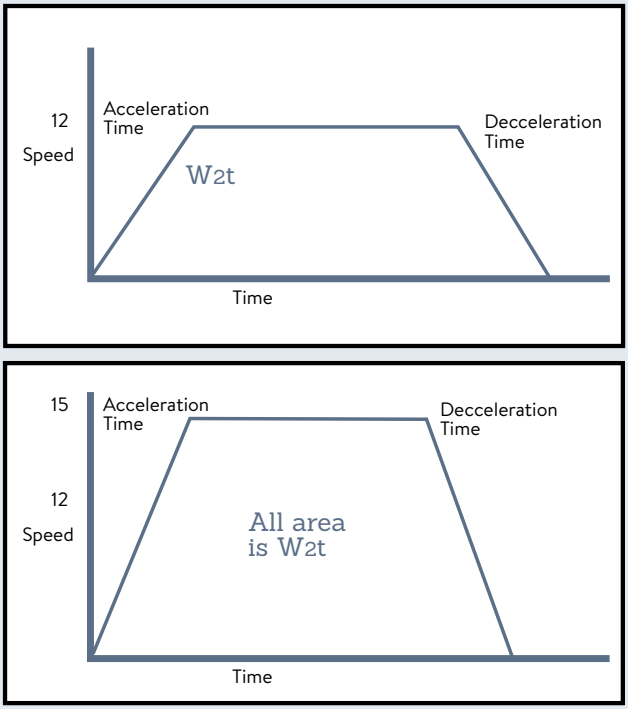
W2t

This is a method of replacing runs, but changing the parameters to suit your sample. Example, you find the speed rate of Rcf is too high and cells rupture or, acceleration rate is too high and proteins are sticking to the tube sides. Or maybe, you find the run time simply too long and wish to increase the speed.

Please look at the W2t graphs below. As you can see, it maps the area of accelerations to speed. The time actually at speed, and a proportion of decelerations time.

By finding a suitable set of run parameters, taking a note of the W2t on the screen. You can then make a program with that figure.

This time you can change any parameter, acceleration rate, speed/RCF, time and deceleration rate. Simply press start, the system will adjust the time needed and as it progresses the W2t figure on screen will reduce to zero then brake to a stop. Or, you can use this methodology to copy your runs time after time for true repeatability.



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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.