

PrO-Research Centrifuges

Research. Universities. Pharmaceutical. Laboratories





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Factory 1

(Ambient Manufacturing)

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Factory 2

(Refrigeration Manufacturing)

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PrO-Research Centrifuges

Welcome to our latest range, we trust you will find the following pages informative. With time comes experience, and in our 27 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 3 year warranty as standard.



CE marked and ISO 9001 regulated and now IVD certified too

User features to PrO-Research	Advantages
Large LCD display with touch screen control	Clarity & ease of use
Rotor Recognition	Safe selection of rotors
10 Accelerations rates, 10 deceleration rates	Sample assistance
108 program memory (12 pages of 9)	Multi department & users
Timer 0-9999 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 <60db (rotor dependent)	Quiet
Orientation acceleration rate	Prevents initial sample side deposits
Standard to PrO-Research	Advantages
Extra thick stainless steel bowl	Easy clean & rust free
Port to Lid	Tachometer speed certification
Alloy & steel frame (zinc coated)	Strong light & quiet
World leading industrial grade inverter	Reliability & strength
Best quality European brushless motor	Quiet, cool & reliable
High technology airflow (ambient mode)	Cooler running
All centrifuges have user accessible service sections to access all safety parameters	
Safety features to PrO-Research	Advantages
Multi point lid locking	Lid safety
Emergency lid release	Power failure release
Lid Spring Strut	Lid dropping safety
Lid lock detection	To run, lid must be shut
Imbalance detection	Eradicates user loading errors
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
Refrigerated PrO-Research	Advantages
Variable -9°C to +40°C with stand by cooling	Flexibility (see rotors)
CFC free R404A gas	Ozone friendly
Valve control of gas	Efficient temperature control
PID control	Supreme temperature accuracy

Centurion Scientific Ltd Centrifuges comply to all relevant EU standards of quality and medical devices IEC 61010 and CE conformity test marks emission, immunity to EN/IEC 61326-1, Class B



New Ranges

New Dual Centrifuges All available with dual rotors

- Micro Centrifuges
- Small Centrifuges

New Prime Centrifuges All available with multiple rotors

- Micro Centrifuges
- Small Centrifuges
- Medium Centrifuges
- Large Centrifuges
- Large Centrifuges with Trolley
- Floor Standing Centrifuges

New Large Centrifuges (available with trolley)

Bench top, or with the addition of a Centurion trolley, can be converted to a free standing unit and will also sit under a bench as only 71cm high.

New Floor Standing Centrifuges

Complete floor standing units – free standing or will fit under a bench as only 71cm high.

Ranges Available

Micro: Capacity to 120ml max

Pages: 6 to 9

Dual: Simple 2 rotor Centrifuge
Prime: Multiple rotors Centrifuge

Micros, Haematocrit, Fixed angle
Swing out

Small: Capacity to 400ml max

Pages: 10 to 17

Dual: Simple 2 rotor Centrifuge
Prime: Multiple rotors Centrifuge

Micros, Haematocrit, Fixed angle
Swing out, Cytology

Medium: Capacity to 1000ml max

Pages: 18 to 25
(Ambient & Refrigerated)

Dual: Simple 2 rotor Centrifuge
Prime: Multiple rotors Centrifuge

Micros, Haematocrit, Fixed angle
Swing out, Cytology

Large & Large with Trolley Capacity 2-3000ml max

Pages: 26 to 45
(Ambient & Refrigerated)

Prime: Multiple rotor Centrifuge

Micros, Haematocrit, Fixed angle
Swing out

Floor Standing Capacity 3-4000ml max

Pages: 46 to 61
(Ambient & Refrigerated)

Prime: Multiple rotors Centrifuge

Micros, Haematocrit, Fixed angle
Swing out, Blood bags (Coming soon)

Welcome to the Future of Micro Prime Centrifuges

In the past, manufacturers have offered limited rotor availability to Micro Centrifuges.

Not anymore.

Centurion Scientific Ltd are evolving the marketplace and have introduced **Micro Centrifuge Prime**.

A Micro that offers:

1	Micro rotors. 0.2, 0.4, 0.5, 1.5, 2.0, 2.2ml & PCR 15,000Rpm and 22,000 Rcf (G) max	Capacity
2	Haematocrit rotor Capillary and 2.0ml tubes 12,000Rpm and 13,500 Rcf(G) max	Capacity
3	Fixed angle rotors 5, 7.5, 10, 12 & 15ml tube 8,000Rpm and 6,100 Rcf (G) max	Capacity
4	Swing out rotor 2, 3, 4 & 5ml tube 4,000Rpm and 1,500 Rcf (G) max	Capacity



Display indicative only

K1015 Micro Prime Centrifuge

K1015. (230V 50/60Hz). 1.K1015.(110V 50Hz)

Speed	500-15,000 Rpm (1 Rpm steps)
Rcf Max	22,000 G
Timer	0-9999 Mins & Hold (1 sec steps)
Dims HWD	235 x 235 x 350mm
Weight	12.8 Kg (without rotor)
Power	140 Watts
Memory	108 programs
Accel rates	10 programs
Decel rates	10 programs

The following pages show available rotors.

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)

Small Fixed Angle Rotors 6,000 & 8,000 Rpm



Rotor	BRK5407	BRK5408
Rotor type	4 x 15ml & 4 x 10ml	8 x 15ml
Tube Size max	17 x 120mm/ 13 x 100mm	17 x 120mm
Minimum speed Rpm	500	500
Maximum speed Rpm	8,000	6,000
Maximum Rcf (G)	6,100	3,400
Radius max cms	8,6	8,5
Sample tube angle (°)	30	30
Acceleration time (secs)	25	25
Deceleration time (secs)	25	25
Autoclavable (frequency)	121°C (10)	121°C (10)

Reducers

(Pack of 4)



Rotor	BRK407/5408
Part number	RM05 (5ml)
Tube size max	13 x 80mm
Part number	RM10 (10ml)
Tube size max	13 x 100mm

Swing out Rotor - 8 x 5ml Max



Including 8 buckets

Rotor	BRK5508S
Rotor type	8 x 5ml Swing Out
Tube size max	13 x 75mm max
Minimum Speed Rpm	500 Rpm
Maximum Speed Rpm	4,000 Rpm
Maximum Rcf (G)	1500
Radius max cms	8.5
Sample tube angle (°)	0
Acceleration time (secs)	20
Deceleration time (secs)	20
Autoclavable (frequency)	121°C (20)



5ml

Welcome to the Future of Small Prime Centrifuges

In the past, manufacturers have offered limited rotor availability to Small Centrifuges.

Not anymore.

Centurion Scientific Ltd are evolving the marketplace and have introduced **Small Centrifuge Prime**.

A Small Centrifuge that offers:

1	Micro rotors. 0.2, 0.4, 0.5, 1.5, 2.0, 2.2ml & PCR 15,000Rpm and 22,000 Rcf (G) max	Capacity
2	Haematocrit rotor Capillary and 2.0ml tubes 12,000Rpm and 13,500 Rcf(G) max	Capacity
3	Fixed angle rotors 15 & 50ml tube (reducers available) 6,000Rpm and 4,800 Rcf (G) max	Capacity
4	Swing out rotor 0.5 to 100ml tube (adaptors available) 4,000Rpm and 2,200 Rcf (G) max	Capacity
5	Cytology rotor. 3 types 4, 8 or 12 place (Double holder) 2,000Rpm and 550 Rcf (G) max	Capacity



Display indicative only

K2015 Small Prime Centrifuge

K2015 . (230V 50/60Hz). 1.K2015. (110V 60Hz)

Speed	500-15,000 Rpm (1 Rpm steps)
Rcf Max	22,000 G
Timer	0-9999 Mins & Hold (1 sec steps)
Dims HWD	275 x 325 x 470mm
Weight	21.8 Kg (without rotor)
Power	160 Watts
Memory	108 programs
Accel rates	10 programs
Decel rates	10 programs

Welcome to the Future of Small Prime Refrigerated Centrifuges

In the past, manufacturers have offered limited rotor availability to Small Centrifuges.

Not anymore.

Centurion Scientific Ltd are evolving the marketplace and have introduced **Small Centrifuge Prime**.

A Small Centrifuge that offers:

1	Micro rotors. 0.2, 0.4, 0.5, 1.5, 2.0, 2.2ml & PCR 15,000Rpm and 22,000 Rcf (G) max	Capacity
2	Haematocrit rotor Capillary and 2.0ml tubes 12,000Rpm and 13,500 Rcf(G) max	Capacity
3	Fixed angle rotors 15 & 50ml tube (reducers available) 6,000Rpm and 4,800 Rcf (G) max	Capacity
4	Swing out rotor 0.5 to 100ml tube (adaptors available) 4,000Rpm and 2,200 Rcf (G) max	Capacity
5	Cytology rotor. 3 types 4, 8 or 12 place (Double holder) 2,000Rpm and 550 Rcf (G) max	Capacity



Display indicative only

The following pages show available rotors.

K2015R Small Prime Centrifuge Refrigerated

K2015R.(230V 50Hz). 1.K2015R.(60Hz). 2.K2015R.(230V 60Hz)

Speed	500-15,000 Rpm (1 Rpm steps)
Rcf Max	22,000 G
Timer	0-9999 Mins & Hold (1 sec steps)
Dims HWD	315 x 450 x 635mm
Weight	62 Kg (without rotor)
Power	690 Watts
Memory	108 programs
Accel rates	10 programs
Decel rates	10 programs
Temp	-9°C to +40°C PID Controlled to + / - 1°C

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)

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

Reducers



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

Swing Out Rotor - 400ml max



BRK1000 Swing out Rotor

Shown with B5010 Buckets and sealed lids B5419

Rotor / buckets	BRK1010
Tube size max	45 x 100mm
Minimum speed	500Rpm
Maximum speed	4000Rpm
Maximum Rcf(G)	2200
Radius max	12.5cm
Tube angle	0 degree
Acceleration time	25 seconds
Deceleration time	25 seconds
Autoclavable (times)	121C (20)
Minimum Temperature	4C (at 23C ambient)

B5010 bucket (set 4) REQUIRED
100ml max per bucket



Adaptors for Swing out rotors

	Capacity	Size	To fit buckets B5100	
			Part No.	Tubes per rotor
	Tube type: Micro with cap Shape: point			
	0.5ml	8x20	AM405	36
	1.5ml	11x38	AM420	24
	2.0ml	11x38	AM420	24
	0.2ml	6x20	AM402	36
	0.4ml	6x30	AM404	36
	Tube type: Plain no cap Shape: round			
	1ml	6x45	AR401	36
	3ml	10x60	AR403	28
	5ml	12x75	AR405*	28
	6ml	12x82	AR405*	28
	7ml	12x100	AR407*	28
	9/10ml	14x100	AR409*	24
	15ml	17x100	AR415*	8
	25ml	24x100	AR425*	8
	50ml	34x100	AR450*	4
	100ml	45x100	AR4100*	4
		150ml	52x100	N/A
	250ml	62x100	N/A	
	Tube type: Falcon with cap Shape: point			
	15ml	17x120	AF415*	8
	50ml	29x115	AF450*	4
	175ml	61x118	N/A	
	15ml	17x120	N/A	
	Tube type: Corning with cap* Shape: point			
	250ml	60x172	See K242/R	
	500ml	98x148	See K242/R	
	Tube type: Falcon with cap Shape: square			
	12ml	17x100	AFS412	8
	25ml	25x90	AFS425	4
	30ml	25x110	AFS430	4
	50ml	29x115	AFS450*	4
	15ml	17x120	N/A	N/A
	Tube type: Nalgene/Oakridge Shape: round			
	10ml	16x80	ANO410*	8
	30ml	26x95	ANO430*	4
	50ml	29x107	ANO450	4
	100ml	38x106	ANO485	4
	Tube type: Nalgene/Oakridge* Shape: flat			
	250ml	62x130	See K241/R	
	750ml	98x153	See K243/R	
	Tube type: Monovette Shape: square			
	1.1-1.4ml	8x82	AM4014	24
	2.7-3ml	11x82	AM403	24
	2.6-2.9ml	13x81	AM429	24
	4.5-5ml	11x108	AM403*	24
	7.5-8.2ml	13x106	AM479*	24
	4.5-5ml	15x92	AM450*	20
	9-10ml	16x108	AM490*	20
	Tube type: Vacutainer Shape: round			
	1.6-5ml	13x75	AV416*	24
	4-7ml	13x100	AV450*	16
	8.5-10ml	16x100	AV480*	12

Swing out Rotor - 8 x 10ml Max



Including 8 buckets

Rotor	BRK5508M
Rotor type	8 x 10ml
Tube size max	15 x 115mm
Minimum Speed Rpm	500 Rpm
Maximum Speed Rpm	4,000 Rpm
Maximum Rcf (G)	2200
Radius max cms	12.3
Sample tube angle (°)	0
Acceleration time (secs)	20
Deceleration time (secs)	20
Autoclavable (frequency)	121°C (20)



10ml

Microtiter Plate Rotor 4 x Standard or 2 x High Plates (available to K2015R only)



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)

Cytology Rotors available

Using centrifugal force to separate and deposit a monolayer of cells onto slides whilst maintaining 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, Serology and Microbiology.

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



Rotor	4420	4430	4460
Rotor type	4 x 0.2 to 6ml	8 x 0.2 to 6ml	12 x 0.2 to 6ml
Tube size max	Single or double	Single or double	Single or double
Minimum speed Rpm	200	200	200
Maximum speed Rpm	2,000	2,000	2,000
Maximum Rcf (G)	550	550	550
Radius max cms	12	12	12
Sample tube angle °	0	0	0
Acceleration time (secs)	25	25	25
Deceleration time (secs)	25	25	25
Autoclavable (frequency)	121°C (20)	121°C (20)	121°C (20)

Cytology rotor includes Rotor, Sealed Lid, Clips, 24 holders with filter card & 100 slides



Pack of 24

4446

Double sample holder with card (up to 1ml)



Pack of 24

4444

Single sample holder with card (up to 1ml)



Pack of 24

4600

Double sample holder with card (up to 6ml)



Each

4462

Stainless steel clips

Welcome to the Future of Medium Prime Centrifuges

In the past, manufacturers have offered limited rotor availability to Micro Centrifuges.

Not anymore.

Centurion Scientific Ltd are evolving the marketplace and have introduced **Medium Centrifuge Prime**.

A small Centrifuge that offers.

1	Micro rotors. 0.2, 0.4, 0.5, 1.5, 2.0, 2.2ml & PCR 15,000Rpm and 22,000 Rcf (G) max	Capacity
2	Haematocrit rotor Capillary and 2.0ml tubes 12,000Rpm and 13,500 Rcf(G) max	Capacity
3	Fixed angle rotors 15 & 50ml tube (reducers available) 6,000Rpm and 4,800 Rcf (G) max	Capacity
4	Swing out rotor 0.5 to 250ml tube (adaptors available) 4,000Rpm and 2,200 Rcf (G) max	Capacity



Display indicative only

K241 Medium Prime Centrifuge (1L)

K241. (230V 50/60Hz). 1.K241. (110V 60Hz)

Speed	500-15,000 Rpm (1 Rpm steps)
Rcf Max	22,000 G
Timer	0-9999 Mins & Hold (1 sec steps)
Dims HWD.	310 x 400 x 500mm
Weight	32 Kg (without rotor)
Power	310 Watts
Memory	108 programs
Accel rates	10 programs
Decel rates	10 programs

Welcome to the Future of Medium Prime Refrigerated Centrifuges

In the past, manufacturers have offered only limited rotor availability to Small Centrifuges.

Not anymore.

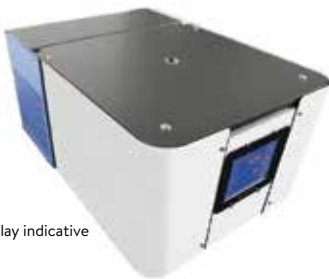
Centurion Scientific Ltd are evolving the marketplace and have introduced **Medium Centrifuge Prime.**

A small Centrifuge that offers.

1	Micro rotors. 0.2, 0.4, 0.5, 1.5, 2.0, 2.2ml & PCR 15,000Rpm and 22,000 Rcf (G) max	Capacity
2	Haematocrit rotor Capillary and 2.0ml tubes 12,000Rpm and 13,500 Rcf(G) max	Capacity
3	Fixed angle rotors 15 & 50ml tube (reducers available) 6,000Rpm and 4,500 Rcf (G) max	Capacity
4	Swing out rotor 0.5 to 250ml tube (adaptors available) 4,000Rpm and 2,200 Rcf (G) max	Capacity

K241R Medium Prime Centrifuge (1L) Refrigerated

K241R.(230V 50Hz). 1.K241R.(110V 60Hz). 2.K241R.(230V 60Hz)



Display indicative only

The following pages show available rotors.

Speed	500-15,000 Rpm (1 Rpm steps)
Rcf Max	22,000 G
Timer	0-9999 Mins & Hold (1 sec steps)
Dims HWD	315 x 450 x 635mm
Weight	62 Kg (without rotor)
Power	690 Watts
Memory	108 programs
Accel rates	10 programs
Decel rates	10 programs
Temp	-9°C to + 40°C PID Controlled to + / - 1°C

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)

High Speed Fixed Angle Rotors 10,000 Rpm



Rotor	BRK5212	BRK5206
Rotor type	12 x 15ml	6 x 50ml
Tube size max	17 x 120mm	30 x 120mm
Minimum speed Rpm	500	500
Maximum speed Rpm	10,000	10,000
Maximum Rcf (G)	10,600	10,600
Radius max cms	9.5	9.5
Sample tube angle °	30	30
Acceleration time (secs)	35	35
Deceleration time (secs)	35	35
Autoclavable (frequency)	121°C (20)	121°C (20)

Refrigerated Centrifuges Only

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

Reducers

(Pack of 4)



Rotor	BRK5212	BRK5206
Part number	RM05 (5ml)	RM15(15ml)
Tube size max	13 x 80mm	17 x 120mm
Part number	RM10 (10ml)	RM25 (25ml)
Tube size max	13 x 100mm	25 x 100mm

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

Reducers



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

Swing Out Rotor 1 Litre Max



BRK1000 Swing out Rotor

Shown with B5250 Buckets and sealed lids B5419

Rotor / buckets	BRK1025
Tube size max	62 x 100mm
Minimum speed	500Rpm
Maximum speed	4000Rpm
Maximum Rcf(G)	2650
Radius max	14cm
Tube angle	0 degree
Acceleration time	25 seconds
Deceleration time	25 seconds
Autoclavable (times)	121C (20)
Minimum Temperature	4C (at 23C ambient)

B5250 bucket (set 4) REQUIRED
250ml max per Bucket



Set of 4

Adaptors for Swing out rotors

Capacity	Size	To fit buckets B5250	
		Part No.	Tubes per rotor
Tube type: Micro with cap Shape: point			
0.5ml	8x20	AM605	40
1.5ml	11x38	AM620	28
2.0ml	11x38	AM620	28
0.2ml	6x20	AM602	48
0.4ml	6x30	AM604	48
Tube type: Plain no cap Shape: round			
1ml	6x45	AR601	36
3ml	10x60	AR603	28
5ml	12x75	AR605	28
6ml	12x82	AR605	28
7ml	12x100	AR607	28
9/10ml	14x100	AR609*	24
15ml	17x100	AR615*	28
25ml	24x100	AR625	8
50ml	34x100	AR650	4
100ml	45x100	AR6100	4
150ml	52x100	AR601	
250ml	62x100	BUCKET 4	
Tube type: Falcon with cap Shape: point			
15ml	17x120	AF615*	16
50ml	29x115	AF650*	4
175ml	61x118	AF6175*	4
15ml	17x120	N/A	4
Tube type: Corning with cap* Shape: point			
250ml	60x172	See K242/R	
500ml	98x148	See K242/R	
Tube type: Falcon with cap Shape: square			
12ml	17x100	AFS612*	16
25ml	25x90	AFS625*	8
30ml	25x110	AFS630	8
50ml	29x115	AFS650	4
15ml	17x120	AFS614	4
Tube type: Nalgene/Oakridge Shape: round			
10ml	16x80	ANO610	16
30ml	26x95	ANO630	4
50ml	29x107	ANO650	4
100ml	38x106	ANO685	4
Tube type: Nalgene/Oakridge* Shape: flat			
250ml	62x130	Buckets5250	4
750ml	98x153	See K243/R	
Tube type: Monovette Shape: square			
1.1-1.4ml	8x82	AM6014	40
2.7-3ml	11x82	AM603	40
2.6-2.9ml	13x81	AM629	40
4.5-5ml	11x108	AM603*	40
7.5-8.2ml	13x106	AM679*	40
4.5-5ml	15x92	AM650	28
9-10ml	16x108	AM690*	28
Tube type: Vacutainer Shape: round			
1.6-5ml	13x75	AV616	40
4-7ml	13x100	AV650	40
8.5-10ml	16x100	AV680	28

Microtiter 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)

Swing out Rotor - 8 x 15ml Max



Including 8 buckets

Rotor	BRK5508L
Buckets	Complete with buckets
Sealed Lids	N/A
Rotor type	8 x 15ml
Tube size max	17 x 125mm
Minimum Speed Rpm	500 Rpm
Maximum Speed Rpm	4,000 Rpm
Maximum Rcf (G)	2,600
Radius max cms	14.6
Sample tube angle (°)	0
Acceleration time (secs)	20
Deceleration time (secs)	20
Autoclavable (frequency)	121°C (20)



Bench Centrifuge or Bench Centrifuge with Trolley

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
Gives an easy loading height	Ease of Ergonomics For tube and rotor variances
Secure locking castors	Portable, easily moved for safety
Strong design, with safe retention lip	Gives safe & quiet use

Available in both Ambient and Refrigerated models



K242 Large Centrifuge (2L)

K242. (230V 50/60Hz). 1.K242. (110V 60Hz)



Display indicative only

Speed	500-15,000 Rpm (1 Rpm steps)
Rcf Max	22,000 G
Timer	0-9999 Mins & Hold (1 sec steps)
Dimensions	HWD 375 x 600 x 630mm
Weight	63.5 Kg (without rotor)
Power	750 Watts
Memory	108 programs
Accel rates	10 programs
Decel rates	10 programs

K242 with Trolley



Display indicative only

Trolley available	
Part number.	XMFS
Total height	71 cm

The following pages show available rotors.

Bench Centrifuge or Bench Centrifuge with Trolley

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
Gives an easy loading height	Ease of Ergonomics For tube and rotor variances
Secure locking castors	Portable, easily moved around for safety
Strong design, with safe retention lip	Gives safe & quiet use

Available in both Ambient and Refrigerated models



K242R Large Prime Centrifuge (2L) Refrigerated

K242R. (230V 50/60Hz). 1.K242R. (110V 60Hz). 2.K242R (230V 60Hz).



Display indicative only

Speed	500-15,000 Rpm (1 Rpm steps)
Rcf Max	22,000 G
Timer	0-9999 Mins & Hold (1 sec steps)
Dimensions	HWD 410 x 998 x 630mm
Weight	110 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

K242R with Trolley



Display indicative only

Trolley available

Part number. XMRFS

Total height 71 cm

The following pages show available rotors.

Swing Out Rotor - 2 Litre max



BRK3000 Swing out rotor

Shown with B2000 buckets and sealed lids B5319

Rotor / buckets	BRK3020
Tube size max	98 x 160mm
Minimum speed	500Rpm
Maximum speed	4000Rpm
Maximum Rcf(G)	3600
Radius max	20.5cm
Tube angle	0 degree
Acceleration time	45 seconds
Deceleration time	45 seconds
Autoclavable (times)	121C (20)
Minimum Temperature	4C (at 23C ambient)

B2000 bucket (set 4) REQUIRED
500ml max per bucket
B5319 Sealed Lids (4)



Set of 4

Adaptors for Swing out rotors

	Capacity	Size	To fit buckets B3000	
			Part No.	Tubes per rotor
	Tube type: Micro with cap Shape: point			
	0.5ml	8x20	AM805	120
	1.5ml	11x38	AM820	84
	2.0ml	11x38	AM820	84
	0.2ml	6x20	AM802	168
	Tube type: Plain no cap Shape: round			
	0.4ml	6x30	AM804	168
	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	20
	175ml	61x118	AF8175	4
	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	See K243/R	
	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

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

Reducers



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

High Speed Fixed Angle Rotors 10,000 Rpm



Rotor	BRK5224	BRK5208	BRK5210
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	10,000	10,000	10,000
Maximum Rcf (G)	13,400	13,400	13,400
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
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At maximum speed (relative to room temperature at 23°C)

Reducers



Rotor	BRK5224	BRK5208	BRK5210
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

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)

Microtiter 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)

2016 Refrigerated Centrifuge temperature control

At Centurion, we have taken temperature control seriously. We keep the refrigeration unit and the refrigerated centrifuge running constantly, as this not only gives the compressor a longer and more reliable life, but stops the constant surges of start up power. Due to the fact that the refrigeration unit is running constantly, it is quite usual to see ice in the chamber even at above freezing temperatures.

For 2016, a new larger, yet more efficient CFC free compressor has been used which gives lower power needs. To maintain the temperature, we have a highly efficient compressor gas bypass solenoid valve, where we pulse heat via a highly accurate controller system (PID controller, which calculates and manages the temperature).

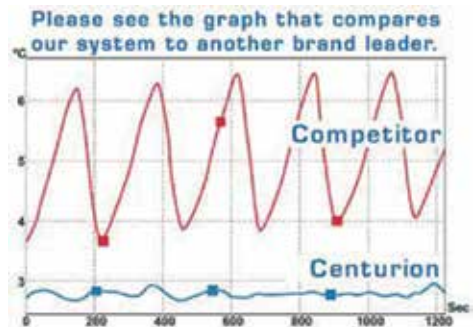
By running both in conjunction, you get better overall temperature control, achieving the desired set temperature. Imagine using a shower; you turn on both cold and hot water, adjusting to suit your desired temperature. You would not want to use one where you had to stand under the cold water, then the hot, then the cold in order to regulate the temperature.

Centurion has a set temperature of 3°C, and the competitor of 4°C.

This allows us to separate the target areas, to show how each machine regulates the temperature. Both refrigeration units

use the same air probes, temperature units, and have the probes set at the same distance from the rotor, and finally, the correct vertical distance to the optimum tube area. But as you can see, we control to 0.5°C, whereas our competitor controls it to 3.5°C, the control of our centrifuge is unsurpassed, and our competitors' all use the same method of turning the compressor on and off, is shown to have very poor control. Having the temperature being so controlled means that the Centurion's power usage is less, and the compressor lasts longer.

This system has been in use for over 20 years, so we do know the longevity of our products. Require complete accuracy with your samples? Purchase a Centurion Centrifuge for total peace of mind. Tried, tested and proven as one of the most accurate systems in the market place.



Bench Centrifuge or Bench Centrifuge with Trolley

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
Gives an easy loading height	Ease of Ergonomics For tube and rotor variances
Secure locking castors	Portable, easily moved around for safety
Strong design, with safe retention lip	Gives safe & quiet use

Available in both Ambient and Refrigerated models



K243 Large Prime Centrifuge (3L)

K243. (230V 50/60Hz). 1.K243. (110V 60Hz)



Display indicative only

Speed	500-15,000 Rpm (1 Rpm steps)
Rcf Max	22,000 G
Timer	0-99 Mins & Hold (1 sec steps)
Dimensions	HWD 375 x 600 x 630mm
Weight	63.5 Kg (without rotor)
Power	750 Watts
Memory	108 programs
Accel rates	10 programs
Decel rates	10 programs

K243 with Trolley



Display indicative only

Trolley available

Part number. XMFS

Total height 71 cm

The following pages show available rotors.

Bench Centrifuge or Bench Centrifuge with Trolley

True Flexibility

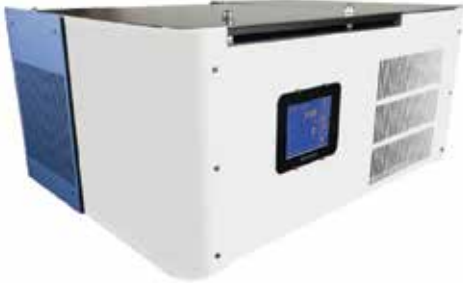
User features to Floor Standing Centrifuge	Advantages
Floor standing Yet under bench fit, only 71cm high	Saves precious bench space, Flexible area use
Gives an easy loading height	Ease of Ergonomics For tube and rotor variances
Secure locking castors	Portable, easily moved around for safety
Strong design, with safe retention lip	Gives safe & quiet use

Available in both Ambient and Refrigerated models



K243R Large Prime Centrifuge (3L) Refrigerated

K243R.(230V 50Hz). 1.K243R.(110V 60Hz). 2.K243R.(230V 60Hz)



Display indicative only

Speed	500-15,000 Rpm (1 Rpm steps)
Rcf Max	22,000 G
Timer	0-9999 Mins & Hold (1 sec steps)
Dimensions	HWD 410 x 998 x 630mm
Weight	110 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

K243R With Trolley



Display indicative only

- Trolley available
- Part number. XMFRS
- Total height 71 Cm

The following pages show available rotors.

Swing Out Rotor - 3 Litre max



BRK3000 Swing out rotor

Shown with B3000 buckets and sealed lids B5319

Rotor / buckets	BRK3030
Tube size max	98 x 170mm
Minimum speed	500Rpm
Maximum speed	4000Rpm
Maximum Rcf(G)	4000
Radius max	22.5cm
Tube angle	0 degree
Acceleration time	45 seconds
Deceleration time	45 seconds
Autoclavable (times)	121C (20)
Minimum Temperature	4C (at 23C ambient)










B3000 bucket (set 4) REQUIRED
750ml max per bucket

B5319 Sealed Lids (4)



Set of 4

Adaptors for Swing out rotors

	Capacity	Size	To fit buckets B3000	
			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	AM804	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	20
	175ml	61x118	AF8175	4
	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	See K243/R	
	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

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

Reducers



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

High Speed Fixed Angle Rotors 10,000 Rpm



Rotor	BRK5224	BRK5208	BRK5210
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	10,000	10,000	10,000
Maximum Rcf (G)	13,400	13,400	13,400
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



Rotor	BRK5224	BRK5208	BRK5210
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

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)

Microtiter 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)

2016 Refrigerated Centrifuge temperature control

At Centurion, we have taken temperature control seriously. We keep the refrigeration unit and the refrigerated centrifuge running constantly, as this not only gives the compressor a longer and more reliable life, but stops the constant surges of start up power. Due to the fact that the refrigeration unit is running constantly, it is quite usual to see ice in the chamber even at above freezing temperatures.

For 2016, a new larger, yet more efficient CFC free compressor has been used which gives lower power needs. To maintain the temperature, we have a highly efficient compressor gas bypass solenoid valve, where we pulse heat via a highly accurate controller system (PID controller, which calculates and manages the temperature).

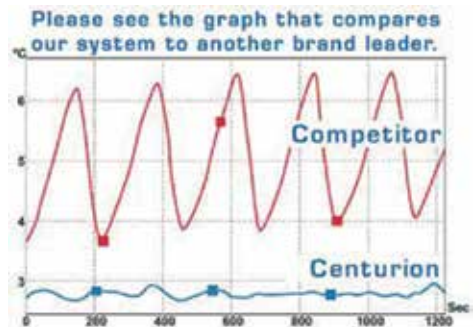
By running both in conjunction, you get better overall temperature control, achieving the desired set temperature. Imagine using a shower; you turn on both cold and hot water, adjusting to suit your desired temperature. You would not want to use one where you had to stand under the cold water, then the hot, then the cold in order to regulate the temperature.

Centurion has a set temperature of 3°C, and the competitor of 4°C.

This allows us to separate the target areas, to show how each machine regulates the temperature. Both refrigeration units

use the same air probes, temperature units, and have the probes set at the same distance from the rotor, and finally, the correct vertical distance to the optimum tube area. But as you can see, we control to 0.5°C, whereas our competitor controls it to 3.5°C, the control of our centrifuge is unsurpassed, and our competitors' all use the same method of turning the compressor on and off, is shown to have very poor control. Having the temperature being so controlled means that the Centurion's power usage is less, and the compressor lasts longer.

This system has been in use for over 20 years, so we do know the longevity of our products. Require complete accuracy with your samples? Purchase a Centurion Centrifuge for total peace of mind. Tried, tested and proven as one of the most accurate systems in the market place.



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



K243FS/R Floor Standing Centrifuge (3L)



Display indicative only

K243FS Ambient

K243FS.(230V 50/60Hz).1.K243FS.(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

K243FSR Refrigerated

K243FSR.(230V 50Hz). 1.K243FSR.(110V 60Hz).
2.K243FSR.(230V 60Hz)

Speed	500-15,000 Rpm (1 Rpm steps)
Rcf Max	22,000 G
Timer	0-9999Mins & 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 - 3 Litre max



BRK3000 Swing out rotor

Shown with B3000 buckets and sealed lids B5319

Rotor / buckets	BRK3030
Tube size max	98 x 170mm
Minimum speed	500Rpm
Maximum speed	4000Rpm
Maximum Rcf(G)	4000
Radius max	22.5cm
Tube angle	0 degree
Acceleration time	45 seconds
Deceleration time	45 seconds
Autoclavable (times)	121C (20)
Minimum Temperature	4C (at 23C ambient)










B3000 bucket (set 4) REQUIRED
750ml max per bucket

B5319 Sealed Lids (4)



Set of 4

Adaptors for Swing out rotors

	Capacity	Size	To fit buckets B3000	
			Part No.	Tubes per rotor
	Tube type: Micro with cap Shape: point			
	0.5ml	8x20	AM805	120
	1.5ml	11x38	AM820	84
	2.0ml	11x38	AM820	84
	0.2ml	6x20	AM802	168
	0.4ml	6x30	AM804	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	20
	175ml	61x118	AF8175	4
	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	See K243/R	
	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

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

Reducers



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

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



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)

Microtiter 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)

2016 Refrigerated Centrifuge temperature control

At Centurion, we have taken temperature control seriously. We keep the refrigeration unit and the refrigerated centrifuge running constantly, as this not only gives the compressor a longer and more reliable life, but stops the constant surges of start up power. Due to the fact that the refrigeration unit is running constantly, it is quite usual to see ice in the chamber even at above freezing temperatures.

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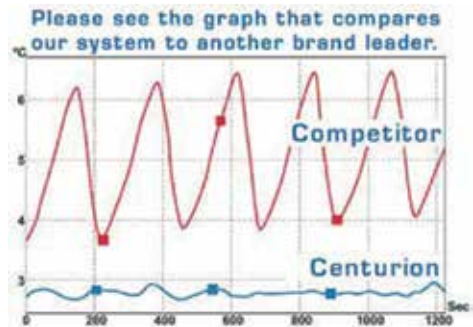
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Floor Standing Centrifuge

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

K244FSR 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			
	0.5ml	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	20
	175ml	61x118	AF8175	4
	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



**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



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)

Microtiter 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



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)	Parameters to 1 G
Time	Parameters 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

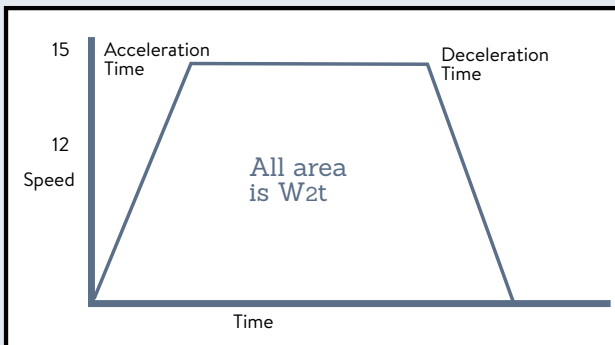
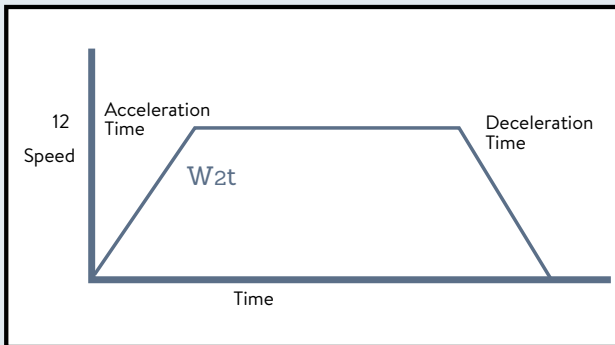
W2t

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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