PrO-Research Centrifuges

Research. Universities. Pharmaceutical. Laboratories







Head Office and R&D

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Office 2 (Research & Service)

The Old Equine Barn, Church Farm, Stoughton, Chichester. PO18 9JL.

Factory 1 (Ambient Manufacturing)

The Old Grain Barn, Church Farm, Stoughton, Chichester, PO18 9JL.

Factory 2 (Refrigeration Manufacturing)

The Old Drier Barn, Church Farm, Stoughton, Chichester, PO18 9JL.

Factory 3 (Logistics)

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‱‱ goo.gl/N8j4OK

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 🔮 💹

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 tim, 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 acc | ess all saftey parameters |
| Saftey 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

3



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.

4

Ranges Available

| Micro: Capaticy 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 soo |

5

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 |



The following pages show available rotors.

6

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 |
| | |

Microtube Rotors 15,000 Rpm

| With NEW high Domed polycarbonate lid | 0 | 0 | 0 | 0 |
|--|------------|------------|------------|----------------|
| 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 reem temperature at 22° C) | | | | |

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

Reducers

(Pack of 24)

| 100 | | |
|-----|-----|--|
| | 100 | |
| | 1 | |
| | 1 | |
| | 1 | |
| | 12 | |
| | - | |

| 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) |



Swing out Rotor - 8 x 5ml Max



| 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) |



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 |



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 | 0 | 0 | 0 | 0 |
|--|------------|------------|------------|----------------|
| 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 |
|----------------------------|-----|--------|-----|-----|
| •••••••••••••••••••••••••• | | | | |
| | | 1 2200 | | |

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

Reducers

(Pack of 24)

| BRK5424 |
|-------------------|
| RS04 (0.2 -0.4ml) |
| 6 x 30mm |
| RS05 (0.5ml) |
| 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

| | E. | | 60 |
|--------------------------|------------|------------|------------|
| | | | |
| 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) | | | | |

| At maximum speed | (re | lative to | room | temperature | at 23°C) |
|------------------|-----|-----------|------|-------------|----------|
|------------------|-----|-----------|------|-------------|----------|

| Pack of 4 | Pack of 4 | Pa | ck of (|
|---|---|---|--|
| BRK5324 | BRK5308 | BRK5100 | |
| RM05 (5ml) | RM15 (15ml) | RL10 (10ml) | |
| 13 x 80mm | 17 x 120mm | 16 x 100mm | |
| RM10 (10ml) | RM25 (25ml) | RL25 (25ml) | |
| 13 x 100mm | 25 x 100mm | 25 x 100mm | |
| | | RL50 (50ml) | |
| | | 35 x 110mm | |
| ••••••••••••••••••••••••••••••••••••••• | | RL85 (85ml) | |
| | | 39 x 110mm | |
| | BRK5324 RM05 (5ml) 13 x 80mm RM10 (10ml) | BRK5324 BRK5308 RM05 (5ml) RM15 (15ml) 13 x 80mm 17 x 120mm RM10 (10ml) RM25 (25ml) | BRK5324 BRK5308 BRK5100 RM05 (5ml) RM15 (15ml) RL10 (10ml) 13 x 80mm 17 x 120mm 16 x 100mm RM10 (10ml) RM25 (25ml) RL25 (25ml) 13 x 100mm 25 x 100mm 25 x 100mm RL50 (50ml) 35 x 110mm RL85 (85ml) |

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

| ridupt | | Size | T. C. Luchata | DE100 |
|--------|----------------------|------------------|----------------------------|-----------------|
| | Capacity | Size | To fit buckets Part No. | Tubes per |
| _ | | | | rotor |
| 8 | | Micro with | cap Shape: p | oint |
| | 0.5m | 8x20 | AM405 | 36 |
| - V | 1.5ml | 11x38 | AM420 | 24 |
| | 2.0ml 0.2ml | 11x38 6x20 | AM420 AM402 | 24 36 |
| | 0.2ml | 6x20 6x30 | AM402 AM404 | 36 |
| _ | | | | |
| n | | | p Shape: rou | |
| | 1ml 3ml | 6x45 10x60 | AR401 AR403 | 36 28 |
| 0.0 | 5ml | 10x00 12x75 | AR405 AR405* | 28 |
| | 6ml | 12x82 | AR405* | 28 |
| | 7ml | 12x100 | AR407* | 28 |
| | 9/10ml | 14x100 | AR409* | 24 |
| | 15ml | 17x100 | AR415* | 8 |
| | 25ml 50ml | 24x100 | AR425* AR450* | 8 4 |
| | 100ml | 34x100 45x100 | AR450* AR4100* | 4 |
| | 150ml | 52x100 | N/A | 4 |
| | 250ml | 62x100 | N/A | |
| 10.000 | Tube type: | alcon wit | h cap Shape: | point |
| | 15ml | 17x120 | AF415* | 8 |
| 4.5 | 50ml | 29x115 | AF450* | 4 |
| | 175ml | 61x118 | N/A | |
| | 15ml | 17x120 | N/A | |
| 9 | Tube type: (| Corning wi | ith cap* Shap | e: point |
| | 250ml | 60x172 | See K242/R | |
| tet 1 | 500ml | 98x148 | See K242/R | |
| 100 | Tube type: I | alcon wit | h cap Shape: : | square |
| 8 | 12ml | 17x100 | AFS412 | 8 |
| 22 | 25ml | 25x90 | AFS425 | 4 |
| | 30ml | 25x110 | AFS430 | 4 4 |
| | 50ml 15ml | 29x115 17x120 | AFS450* N/A | 4 N/A |
| - | | | | |
| пЯП | | | bakridge Shap | |
| 10. | 10ml | 16x80 | ANO410* | 8 |
| M. | 30ml 50ml | 26x95 29x107 | ANO430* ANO450 | 4 4 |
| | 100ml | 38x106 | ANO430 ANO485 | 4 |
| 10 | | | akridge* Sha | |
| 97 | 250ml | 62x130 | See K241/R | |
| | 750ml | 98x153 | See K243/R | |
| Δ. | Tube type: / | Nonovette | Shape: squa | re |
| 1 | 1.1-1.4ml | 8x82 | AM4014 | 24 |
| ¥ | 2.7-3ml | 11x82 | AM403 | 24 |
| | 2.6-2.9ml | 13x81 | AM429 | 24 |
| | 4.5-5ml | 11x108 13x106 | AM403* AM479* | 24 24 |
| | 7.5-8.2ml 4.5-5ml | 13x106 15x92 | AM479* AM450* | 24 20 |
| | 9-10ml | 16x108 | AM490* | 20 |
| | | /acutainer | | |
| 1 | 1.6-5ml | 13x75 | AV416* | 24 |
| 0 | 4-7ml | 13x100 | AV450* | 16 |
| | 8.5-10ml | 16x100 | AV480* | 12 |
| | | | | |

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)

Swing out Rotor - 8 x 10ml Max



| 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) |



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



| BucketsComplete with bucketsSealed LidsAvailable withRotor type4 x STD PlatesTube size max85mm x 128mmMinimum Speed Rpm500 RpmMaximum Speed Rpm3500 RpmMaximum Rcf (G)2500Radius max cms14Sample tube angle (°)0 °C (10)Acceleration time (secs)30Descleration time (secs)20 | Rotor | BRK5540 |
|--|--------------------------|-----------------------|
| Rotor type4 x STD PlatesTube size max85mm x 128mmMinimum Speed Rpm500 RpmMaximum Speed Rpm3500 RpmMaximum Rcf (G)2500Radius max cms14Sample tube angle (°)0 °C (10)Acceleration time (secs)30 | Buckets | Complete with buckets |
| Tube size max85mm x 128mmMinimum Speed Rpm500 RpmMaximum Speed Rpm3500 RpmMaximum Rcf (G)2500Radius max cms14Sample tube angle (°)0 °C (10)Acceleration time (secs)30 | Sealed Lids | Available with |
| Minimum Speed Rpm500 RpmMaximum Speed Rpm3500 RpmMaximum Rcf (G)2500Radius max cms14Sample tube angle (°)0 °C (10)Acceleration time (secs)30 | Rotor type | 4 x STD Plates |
| Maximum Speed Rpm3500 RpmMaximum Rcf (G)2500Radius max cms14Sample tube angle (°)0 °C (10)Acceleration time (secs)30 | Tube size max | 85mm x 128mm |
| Maximum Rcf (G)2500Radius max cms14Sample tube angle (°)0 °C (10)Acceleration time (secs)30 | Minimum Speed Rpm | 500 Rpm |
| Radius max cms14Sample tube angle (°)0 °C (10)Acceleration time (secs)30 | Maximum Speed Rpm | 3500 Rpm |
| Sample tube angle (°)0 °C (10)Acceleration time (secs)30 | Maximum Rcf (G) | 2500 |
| Acceleration time (secs) 30 | Radius max cms | 14 |
| | Sample tube angle (°) | 0 °C (10) |
| Deceleration time (cost) 20 | Acceleration time (secs) | 30 |
| | Deceleration time (secs) | 30 |
| Autoclavable (frequency) 121°C (20) | Autoclavable (frequency) | 121°C (20) |

Cytology Rotor's available

Using centrifugal force to seperate and deposit a monolayer of cells onto slides whilst maintaing integrity within a clearly defined area FROM ANY FLUID MATRIX. Cyto centrifugation also constructively flattens cells for excellent nuclear presentation. Applications include Cytology, Histolgy, Haematology, Oncology, Immunochemistry, Serology and Microbiology.

Offering samples from 0.1ml to 6ml and an extensive range of accessories we have your Cytolgogy 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)

4444

Single sample holder with card (up to 1ml)

4600

Double sample holder with card (up to 6ml)

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
 Capacity

 15,000Rpm and 22,000 Rcf (G) max
 Capacity

 2
 Haematocrit rotor Capillary and 2.0ml tubes
 Capacity

 12,000Rpm and 13,500 Rcf(G) max
 Capacity

 3
 Fixed angle rotors 15 & 50ml tube (reducers available)
 Capacity

 6,000Rpm and 4,800 Rcf (G) max
 Capacity

 4
 Swing out rotor 0.5 to 250ml tube (adaptors available)
 Capacity

 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)



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 | 0 | | 0 | 0 |
|--|------------|------------|------------|----------------|
| 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 | |
|---|-----|--------|-----|-----|--|
| ••••••••••••••••••••••••••••••••••••••• | | | | | |
| | | 1 2200 | | | |

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



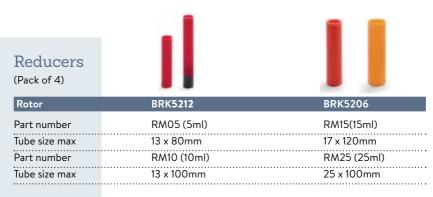


| Rotor | BRK5212 | BRK5206 |
|--------------------------|------------|------------|
| Rotor type | 12 x 15ml | 6 x 50ml |
| Tube size max | 17 x 120mm | 30 x 120mm |
| Minimum speed Rpm | 500 | 500 |
| Maximum speed Rpm | 10,000 | 10,000 |
| Maximum Rcf (G) | 10,600 | 10,600 |
| Radius max cms | 9.5 | 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 |
|--------------------------|-----|---|
| •••••••••••••••••••••••• | | ••••••••••••••••••••••••••••••••••••••• |
| A | | 1 2280 |

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



Large Fixed Angle Rotors 6,000 Rpm

| | 1. S. | 200 | 60 |
|--------------------------|------------|------------|------------|
| | | | |
| 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 spaced (relative to recomptomorphism at 22° C) | | | | |

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

| Pack of 4 | Pack of 4 | Pack of the |
|-------------|---|---|
| BRK5324 | BRK5308 | BRK5100 |
| RM05 (5ml) | RM15 (15ml) | RL10 (10ml) |
| 13 x 80mm | 17 x 120mm | 16 x 100mm |
| RM10 (10ml) | RM25 (25ml) | RL25 (25ml) |
| 13 x 100mm | 25 x 100mm | 25 x 100mm |
| | | RL50 (50ml) |
| | | 35 x 110mm |
| | | RL85 (85ml) |
| | | 39 x 110mm |
| | BRK5324 RM05 (5ml) 13 x 80mm RM10 (10ml) | BRK5324 BRK5308 RM05 (5ml) RM15 (15ml) 13 x 80mm 17 x 120mm RM10 (10ml) RM25 (25ml) |

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



Adaptors for Swing out rotors

| | Capacity | Size | To fit buckets Part No. | B5250 Tubes per rotor |
|------------|--|---|--|---|
| 0 | Tubo tupet | Aiero with | cap Shape:p | |
| Ũ | 0.5m 1.5ml 2.0ml 0.2ml 0.4ml | 8x20 11x38 11x38 6x20 6x30 | AM605 AM620 AM620 AM620 AM602 AM604 | 40 28 28 48 48 |
| | Tubo typo: | Plain no ca | n Shapo' rou | ad |
| | 1ml 3ml 5ml 6ml 7ml 9/10ml 15ml 25ml 50ml 100ml 150ml 250ml | 6x45 10x60 12x75 12x82 12x100 14x100 17x100 24x100 34x100 45x100 52x100 62x100 | p Shape: rout AR601 AR603 AR605 AR605 AR607 AR607 AR609* AR615* AR625 AR650 AR6100 AR610 BUCKET 4 | 36 28 28 28 28 24 24 28 8 4 4 |
| 10,000 | Tube type: | Falcon wit | h cap Shape: | point |
| | 15ml 50ml 175ml 15ml | 17x120 29x115 61x118 17x120 | AF615* AF650* AF6175* N/A | 16 4 4 4 |
| 0 | Tube type: (| Corning w | ith cap* Shap | e: point |
| Ű, | 250ml 500ml | 60x172 98x148 | See K242/R See K242/R | |
| | Tube type: | Falcon wit | h cap Shape: s | square |
| No. | 12ml 25ml 30ml 50ml 15ml | 17x100 25x90 25x110 29x115 17x120 | AFS612* AFS625* AFS630 AFS650 AFS614 | 16 8 8 4 4 |
| - T | Tube type: | Nalgene/C | Dakridge Shap | e: round |
| IJ | 10ml 30ml 50ml 100ml | 16x80 26x95 29x107 38x106 | ANO610 ANO630 ANO650 ANO685 | 16 4 4 4 |
| 29 | | |)akridge* Sha | |
| | 250ml 750ml | 62x130 98x153 | Buckets 5250 See K243/R | 4 |
| 8 | Tube type: I | | | |
| ¥ | 1.1-1.4ml 2.7-3ml 2.6-2.9ml 4.5-5ml 7.5-8.2ml 4.5-5ml 9-10ml | 8x82 11x82 13x81 11x108 13x106 15x92 16x108 | AM6014 AM603 AM629 AM603* AM679* AM650 AM690* | 40 40 40 40 28 28 |
| 11 | Tube type: \ | /acutainer | Shape: round | 1 |
| IJ | 1.6-5ml 4-7ml 8.5-10ml | 13x75 13x100 16x100 | AV616 AV650 AV680 | 40 40 28 |

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)

Set of 4

Microtitor Plate Rotor 4 x Standard or $2 \times High$ Plates



| BucketsComplete with bucketsSealed LidsAvailable withRotor type4 x STD PlatesTube size max85mm x 128mmMinimum Speed Rpm500 RpmMaximum Speed Rpm3500 RpmMaximum Rcf (G)2500Radius max cms14Sample tube angle (°)0 °C (10)Acceleration time (secs)30Descleration time (secs)20 | Rotor | BRK5540 |
|--|--------------------------|-----------------------|
| Rotor type4 x STD PlatesTube size max85mm x 128mmMinimum Speed Rpm500 RpmMaximum Speed Rpm3500 RpmMaximum Rcf (G)2500Radius max cms14Sample tube angle (°)0 °C (10)Acceleration time (secs)30 | Buckets | Complete with buckets |
| Tube size max85mm x 128mmMinimum Speed Rpm500 RpmMaximum Speed Rpm3500 RpmMaximum Rcf (G)2500Radius max cms14Sample tube angle (°)0 °C (10)Acceleration time (secs)30 | Sealed Lids | Available with |
| Minimum Speed Rpm500 RpmMaximum Speed Rpm3500 RpmMaximum Rcf (G)2500Radius max cms14Sample tube angle (°)0 °C (10)Acceleration time (secs)30 | Rotor type | 4 x STD Plates |
| Maximum Speed Rpm3500 RpmMaximum Rcf (G)2500Radius max cms14Sample tube angle (°)0 °C (10)Acceleration time (secs)30 | Tube size max | 85mm x 128mm |
| Maximum Rcf (G)2500Radius max cms14Sample tube angle (°)0 °C (10)Acceleration time (secs)30 | Minimum Speed Rpm | 500 Rpm |
| Radius max cms14Sample tube angle (°)0 °C (10)Acceleration time (secs)30 | Maximum Speed Rpm | 3500 Rpm |
| Sample tube angle (°)0 °C (10)Acceleration time (secs)30 | Maximum Rcf (G) | 2500 |
| Acceleration time (secs) 30 | Radius max cms | 14 |
| | Sample tube angle (°) | 0 °C (10) |
| Deceleration time (cost) 20 | Acceleration time (secs) | 30 |
| | Deceleration time (secs) | 30 |
| Autoclavable (frequency) 121°C (20) | Autoclavable (frequency) | 121°C (20) |

Swing out Rotor - 8 x 15ml Max



| 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 |



K242 Large Centrifuge (2L) K242. (230V 50/60Hz). 1.K242. (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 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 |

Display indicative only



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 |



K242R Large Prime Centrifuge (2L) Refrigerated K242R. (230V 50/60Hz). 1.K242R. (110V 60Hz). 2.K242R (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 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

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)



Adaptors for Swing out rotors

| naapo | 515 101 57 | 0 | 101015 | |
|--------|----------------------|------------------|---|--------------------|
| | Capacity | Size | To fit buckets | |
| | | | Part No. | Tubes per rotor |
| Q | Tube type: I | Micro with | cap Shape:p | |
| 11 | 0.5m | 8x20 | AM805 | 120 |
| V | 1.5ml | 11x38 | AM820 | 84 |
| | 2.0ml | 11x38 | AM820 | 84 |
| | 0.2ml | 6x20 | AM802 | 168 |
| | 0.4ml | 6x30 | AM804 | 168 |
| n 🗌 🗌 | Tube type: | | p Shape: rou | nd |
| | 1ml | 6x45 | AR801 | 168 |
| 0.0 | 3ml 5ml | 10x60 | AR803 AR805 | 96 96 |
| | 5mi 6ml | 12x75 12x82 | AR805 AR805 | 96 96 |
| | 7ml | 12x02 | AR807 | 96 |
| | 9/10ml | 14x100 | AR809 | 84 |
| | 15ml | 17x100 | AR815 | 48 |
| | 25ml | 24x100 | AR825 | 28 |
| | 50ml 100ml | 34x100 45x100 | AR850 AR8100 | 16 8 |
| | 150ml | 52x100 | AR8150 | 4 |
| | 250ml | 62x100 | AR8250 | 4 |
| 10.000 | Tube type: | alcon wit | h cap Shape: | point |
| | 15ml | 17x120 | AF815 | 48 |
| 4.8 | 50ml | 29x115 | AF850 | 16 |
| | 175ml | 61x118 | AF8175 | 4 |
| | 15ml | 17x120 | | |
| 9 | Tube type: (| Corning w | ith cap * Shap | e: point |
| | 250ml | 60x172 | AF8250 | 4 |
| tet 7 | 500ml | 98x148 | AF8500 | 4 |
| 100 | Tube type: | alcon wit | h cap Shape: : | square |
| ÷. | 12ml | 17x100 | AFS812 | 48 |
| 2 | 25ml | 25x90 | AFS825 | 28 |
| | 30ml | 25x110 | AFS830 | 28 |
| | 50ml 15ml | 29x115 17x120 | AFS850 AFS850 | 20 48 |
| - | | | | |
| T-FT | | | Dakridge Shap | |
| UU | 10ml 30ml | 16x80 26x95 | ANO810 ANO830 | 48 28 |
| | 50ml | 29x107 | ANO850 | 24 |
| | 100ml | 38x106 | ANO885 | 12 |
| 60 | Tube type: I | Nalgene/C | Dakridge* Sha | pe: flat |
| - | 250ml | 62x130 | ANO8250 | 4 |
| 9 | 750ml | 98x153 | See K243/R | |
| 8 | Tube type: I | | | |
| | 1.1-1.4ml | 8x82 | AM8014 | 96 |
| X | 2.7-3ml 2.6-2.9ml | 11x82 13x81 | AM803 AM829 | 76 76 |
| | 2.0-2.9mi 4.5-5ml | 13x81 11x108 | AM829 AM803 | 76 76 |
| | 7.5-8.2ml | 13x106 | AM879 | 76 |
| | 4.5-5ml | 15x92 | AM850 | 64 |
| | 9-10ml | 16x108 | AM890 | 64 |
| - | | | Shape: round | |
| U | 1.6-5ml 4-7ml | 13x75 | AV816 AV850 | 76 76 |
| | 4-7mi 8.5-10ml | 13x100 16x100 | AV850 AV880 | 76 64 |
| | 0.0 10111 | 10/100 | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | 0- |

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)

Set of 4

Large Fixed Angle Rotors 6,000 Rpm

| | S.E. | 1 | 0 |
|--------------------------|------------|------------|------------|
| | | | |
| 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 roc | m temperature at 23°C | | |

| Reducers | Pack of 4 | Pack of 4 | Pack |
|----------------------------------|---|-------------|-------------|
| 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

| R | 1 | 1000 |
|------------|--|--|
| BRK5224 | BRK5208 | BRK5210 |
| 24 x 15ml | 8 x 50ml | 6 x 100ml |
| 17 x 120mm | 30 x 120mm | 45 x 125mm |
| 500 | 500 | 500 |
| 10,000 | 10,000 | 10,000 |
| 13,400 | 13,400 | 13,400 |
| 12 | 12 | 12 |
| 30 | 30 | 30 |
| 35 | 35 | 35 |
| 35 | 35 | 35 |
| 121°C (20) | 121°C (20) | 121°C (20) |
| | 24 x 15ml 17 x 120mm 500 10,000 13,400 12 30 35 35 | 24 x 15ml 8 x 50ml 17 x 120mm 30 x 120mm 500 500 10,000 10,000 13,400 13,400 12 12 30 30 35 35 35 35 |

Refrigerated Centrifuges Only

| Minimum Temperature | 4°C | 4°C | 4°C |
|-----------------------------------|------------------------|-----|---|
| At maximum speed (relative to roc | om temperature at 23°C |) | ••••••••••••••••••••••••••••••••••••••• |

| Pack of 4 | Pack of 4 | Pack of 6 |
|-----------------|---|---|
| BRK 5224 | BRK5208 | BRK5210 |
| RM05 (5ml) | RM15 (15ml) | RL10 (10ml) |
| 13 x 80mm | 17 x 120mm | 16 x 100mm |
| RM10 (10ml) | RM25 (25ml) | RL25 (25ml) |
| 13 x 100mm | 25 x 100mm | 25 x 100mm |
| | | RL50 (50ml) |
| | | 35 x 110mm |
| | | RL85 (85ml) |
| | | 39 x 110mm |
| | BRK5224 RM05 (5ml) 13 x 80mm RM10 (10ml) | BRK5224 BRK5208 RM05 (5ml) RM15 (15ml) 13 x 80mm 17 x 120mm RM10 (10ml) RM25 (25ml) |

Microtube Rotors 15,000 Rpm

| With NEW high Domed polycarbonate lid | | | | Q |
|--|------------|------------|------------|----------------|
| 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 spood (relative t | o room tomp | oraturo at 23°C) | | | |

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

Reducers

(Pack of 24)

| 1 | |
|---|--|
| 1 | |
| 1 | |
| | |
| - | |

| 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 $2 \times High$ 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.

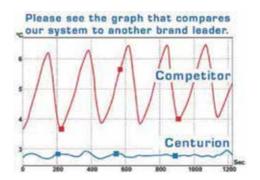
For 2016, a new larger, yet more efficient CFC free compressor has been used which gives lower power needs. To maintain the temperature, we have a highly efficient compressor gas bypass solenoid valve, where we pulse heat via a highly accurate controller system (PID controller, which calculates and manages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

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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 |



K243 Large Prime Centrifuge (3L)

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



| 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 |

Display indicative only

K243 with Trolley



Trolley available Part number. XMFS Total height 71 cm

The following pages show available rotors.

Bench Centrifuge or Bench Centrifuge with Trolley

True Flexibility

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|---|--|
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| Secure locking castors | Portable, easily moved around for safety |
| Strong design, with safe retention lip | Gives safe & quiet use |



K243R Large Prime Centrifuge (3L) Refrigerated K243R.(230V 50Hz), 1.K243R.(110V 60Hz), 2.K243R.(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 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 |
| | |

Display indicative only

K243R With Trolley Trolley available Part number. XMFRS Total height 71 Cm Display indicative only

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)



Adaptors for Swing out rotors

| map | Capacity | Size | To fit buckets | B3000 |
|------|----------------------|------------------|----------------------------|-----------|
| | capacity | 5120 | Part No. | Tubes per |
| 0 | Tubo tupo: | Viere with | cap Shape: p | rotor |
| ň | 0.5m | 8x20 | AM805 | 120 |
| V | 1.5ml | 11x38 | AM820 | 84 |
| | 2.0ml | 11x38 | AM820 | 84 |
| | 0.2ml | 6x20 | AM802 | 168 |
| | 0.4ml | 6x30 | AM804 | 168 |
| n | ,, | | p Shape: rou | |
| | 1ml 3ml | 6x45 10x60 | AR801 AR803 | 168 96 |
| 0.0 | 5ml | 12x75 | AR805 | 96 |
| | 6ml | 12x82 | AR805 | 96 |
| | 7ml | 12x100 | AR807 | 96 |
| | 9/10ml 15ml | 14x100 17x100 | AR809 AR815 | 84 48 |
| | 25ml | 24x100 | AR825 | 28 |
| | 50ml | 34x100 | AR850 | 16 |
| | 100ml | 45x100 | AR8100 | 8 |
| | 150ml 250ml | 52x100 62x100 | AR8150 AR8250 | 4 4 |
| | | | | • |
| 100 | | | h cap Shape: | |
| 11 | 15ml 50ml | 17x120 29x115 | AF815 AF850 | 48 16 |
| VIV. | 175ml | 61x118 | AF8175 | 4 |
| | 15ml | 17x120 | | |
| 9- | Tube type: | Corning w | ith cap* Shap | e: point |
| | 250ml | 60x172 | AF8250 | 4 |
| 127 | 500ml | 98x148 | AF8500 | 4 |
| | Tube type: I | alcon wit | h cap Shape: s | square |
| 8 | 12ml | 17x100 | AFS812 | 48 |
| 22 | 25ml 30ml | 25x90 25x110 | AFS825 AFS830 | 28 28 |
| | 30mi 50ml | 29x115 | AF\$830 AF\$850 | 28 |
| | 15ml | 17x120 | AF\$850 | 48 |
| -Ê | Tube type: I | Nalgene/C | Jakridge Shap | e: round |
| 171 | 10ml | 16x80 | ANO810 | 48 |
| чP | 30ml | 26x95 | ANO830 | 28 |
| | 50ml 100ml | 29x107 | ANO850 | 24 12 |
| 1.53 | | 38x106 | ANO885 Dakridge* Sha | |
| 89 | 250ml | 62x130 | ANO8250 | 4 |
| | 750ml | 98x153 | See K243/R | 4 |
| Δ. | Tube type: | Monovette | Shape: squar | 'e |
| 1 | 1.1-1.4ml | 8x82 | AM8014 | 96 |
| ¥ | 2.7-3ml | 11x82 | AM803 | 76 |
| | 2.6-2.9ml 4.5-5ml | 13x81 11x108 | AM829 AM803 | 76 76 |
| | 7.5-8.2ml | 13x106 | AM803 AM879 | 76 |
| | 4.5-5ml | 15x92 | AM850 | 64 |
| | 9-10ml | 16x108 | AM890 | 64 |
| - | Tube type: \ | | Shape: round | |
| U | 1.6-5ml 4-7ml | 13x75 13x100 | AV816 AV850 | 76 76 |
| | 4-7mi 8.5-10ml | 13x100 16x100 | AV850 AV880 | 76 64 |
| | | | | 5. |

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)

Set of 4

Large Fixed Angle Rotors 6,000 Rpm

| | | | 2 |
|------------------------|----------------------------|-------------|-------------|
| 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 (sec | s) 35 | 35 | 35 |
| Deceleration time (sec | s) 35 | 35 | 35 |
| Autoclavable (frequen | cy) 121°C (20) | 121°C (20) | 121°C (20) |
| Refrigerated Cer | ntrifuges Only | | |
| Minimum Temperature | • | 4°C | 4°C |
| At maximum speed (re | lative to room temperature | e at 23°C) | Pack o |
| 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) |
| <u>.</u> | | | 35 x 110mm |
| <u>.</u> | | | RL85 (85ml) |
| | | | 39 x 110mm |

High Speed Fixed Angle Rotors 10,000 Rpm

| R | P | 125 |
|------------|--|--|
| BRK5224 | BRK5208 | BRK5210 |
| 24 x 15ml | 8 x 50ml | 6 x 100ml |
| 17 x 120mm | 30 x 120mm | 45 x 125mm |
| 500 | 500 | 500 |
| 10,000 | 10,000 | 10,000 |
| 13,400 | 13,400 | 13,400 |
| 12 | 12 | 12 |
| 30 | 30 | 30 |
| 35 | 35 | 35 |
| 35 | 35 | 35 |
| 121°C (20) | 121°C (20) | 121°C (20) |
| | 24 x 15ml 17 x 120mm 500 10,000 13,400 12 30 35 35 | 24 x 15ml 8 x 50ml 17 x 120mm 30 x 120mm 500 500 10,000 10,000 13,400 13,400 12 12 30 30 35 35 35 35 |

Refrigerated Centrifuges Only

| Minimum Temperature | 4°C | 4°C | 4°C |
|----------------------------------|------------------------|-----|---|
| At maximum speed (relative to ro | om temperature at 23°C |) | ••••••••••••••••••••••••••••••••••••••• |

| Pack of 4 | Pack of 4 | Pack of 6 |
|-----------------|---|---|
| BRK 5224 | BRK5208 | BRK5210 |
| RM05 (5ml) | RM15 (15ml) | RL10 (10ml) |
| 13 x 80mm | 17 x 120mm | 16 x 100mm |
| RM10 (10ml) | RM25 (25ml) | RL25 (25ml) |
| 13 x 100mm | 25 x 100mm | 25 x 100mm |
| | | RL50 (50ml) |
| | | 35 x 110mm |
| | | RL85 (85ml) |
| | | 39 x 110mm |
| | BRK5224 RM05 (5ml) 13 x 80mm RM10 (10ml) | BRK5224 BRK5208 RM05 (5ml) RM15 (15ml) 13 x 80mm 17 x 120mm RM10 (10ml) RM25 (25ml) |

Microtube Rotors 15,000 Rpm

| With NEW high Domed polycarbonate lid | 0 | 0 | 0 | Q |
|--|------------|------------|------------|----------------|
| 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 an and (relative to | room tom | n aratura at 22°C) | | | |

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

Reducers

(Pack of 24)

| 1 |
|---|
| 1 |
| |
| |
| |

| 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 $2 \times High$ 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) |

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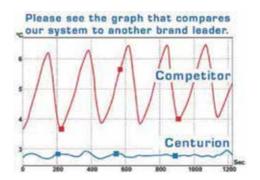
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Floor Standing Centrifuge

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



K243FS/R Floor Standing Centrifuge (3L)



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 |

The following pages show available rotors.

. .

K243RFS 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 |

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)



Adaptors for Swing out rotors

| ildupt | Capacity Size To fit buckets B3000 | | | |
|------------|------------------------------------|------------------|-----------------------|-----------------|
| | Capacity | 3120 | Part No. | Tubes per |
| A | Tube to see | 4::+1 | character | rotor |
| ň | 0.5m | 8x20 | cap Shape: p AM805 | 120 |
| V | 1.5ml | 11x38 | AM803 | 84 |
| | 2.0ml | 11x38 | AM820 | 84 |
| | 0.2ml | 6x20 | AM802 | 168 |
| | 0.4ml | 6x30 | AM804 | 168 |
| n | | | p Shape: rou | |
| | 1ml 3ml | 6x45 10x60 | AR801 AR803 | 168 96 |
| 0.0 | 5ml | 12x75 | AR805 | 96 |
| | 6ml | 12x82 | AR805 | 96 |
| | 7ml | 12x100 | AR807 | 96 |
| | 9/10ml 15ml | 14x100 17x100 | AR809 AR815 | 84 48 |
| | 25ml | 24x100 | AR825 | 28 |
| | 50ml | 34x100 | AR850 | 16 |
| | 100ml | 45x100 | AR8100 | 8 4 |
| | 150ml 250ml | 52x100 62x100 | AR8150 AR8250 | 4 |
| 10 100 | | | h cap Shape: | |
| | 15ml | 17x120 | AF815 | 48 |
| | 50ml | 29x115 | AF850 | 16 |
| | 175ml | 61x118 | AF8175 | 4 |
| | 15ml | 17x120 | | |
| | Tube type: (| Corning w | ith cap * Shap | |
| | 250ml | 60x172 | AF8250 | 4 |
| 10-X 200 | 500ml | 98x148 | AF8500 | 4 |
| | | | h cap Shape: s | |
| - | 12ml 25ml | 17x100 25x90 | AFS812 AFS825 | 48 28 |
| 82 | 30ml | 25x110 | AF\$830 | 28 |
| | 50ml | 29x115 | AF\$850 | 20 |
| | 15ml | 17x120 | AFS850 | 48 |
| n Î î | | |)akridge Shap | |
| Π. | 10ml 30ml | 16x80 | ANO810 ANO830 | 48 28 |
| M. | 30mi 50ml | 26x95 29x107 | ANO830 ANO850 | 28 24 |
| | 100ml | 38x106 | ANO885 | 12 |
| 60 | Tube type: I | Nalgene/C |)akridge * Sha | pe: flat |
| | 250ml | 62x130 | ANO8250 | 4 |
| U. | 750ml | 98x153 | See K243/R | _ |
| A | Tube type: I | | | |
| | 1.1-1.4ml 2.7-3ml | 8x82 11x82 | AM8014 AM803 | 96 76 |
| T | 2.6-2.9ml | 13x81 | AM829 | 76 |
| | 4.5-5ml | 11x108 | AM803 | 76 |
| | 7.5-8.2ml | 13x106 | AM879 | 76 |
| | 4.5-5ml 9-10ml | 15x92 16x108 | AM850 AM890 | 64 64 |
| III | Tube type: \ | | | - |
| 1 | 1.6-5ml | 13x75 | AV816 | 76 |
| 0 | 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)

Set of 4

Large Fixed Angle Rotors 6,000 Rpm

| | 2 | 620 | 60 |
|------------------------|--------------------------|--------------|-------------|
| Rotor | BRK5324 | BRK5308 | BRK5100 |
| Rotor type | 24 x 15ml | 8 x 50ml | 6 x 100ml |
| Size max | 17 x 120mm | | |
| | 500 | 500 | 500 |
| Minimum speed Rpm | | | |
| 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 (sec | s) 35 | | 35 |
| Deceleration time (sec | cs) 35 | 35 | 35 |
| Autoclavable (frequen | cy) 121°C (20) | 121°C (20) | 121°C (20) |
| Refrigerated Cer | ntrifuges Only | | |
| Minimum Temperature | • | 4°C | 4°C |
| At maximum speed (re | lative to room temperatu | ire at 23°C) | |
| Reducers | Pack of 4 | Pack of 4 | Pack of |
| 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

| | | | | 200 | 200 |
|---|---|---------------------------------|------------------------------------|--|--|
| Rotor | l | BRK5224 | BRK5208 | BRK5210 | BRK5256 |
| Rotor type | 2 | 24 x 15ml | 8 x 50ml | 6 x 100ml | 6 x 250ml |
| Size max | 1 | 7 x 120mm | 30 x 120mi | m 45 x 125mm | 62 x 130mm |
| Minimum speed Rpn | n 5 | 500 | 500 | 500 | 500 |
| Maximum speed Rpr | m 1 | 0,000 | 10,000 | 10,000 | 10,000 |
| Maximum Rcf (G) | 1 | 3,400 | 13,400 | 13,400 | 15,650 |
| Radius max cms | 1 | 2 | 12 | 12 | 14 |
| Sample tube angle ° | 3 | 30 | 30 | 30 | 30 |
| Acceleration time (s | ecs) 4 | 40 | 45 | 45 | 60 |
| Deceleration time (s | ecs) 4 | 40 | 45 | 45 | 85 |
| Autoclavable (freque | ency) 1 | 21°C (20) | 121°C (20) | 121°C (20) | 121°C (20) |
| Refrigerated C Minimum Temperatu At maximum speed (Reducers | re 2 | 4°C om temperat Pack of 4 | Pack of 4 | 4°C | |
| Rotor | BRK5224 | BRK5 | | BRK5210 | BRK5256 |
| Part number Tube size max Part number Tube size max | RM05 (5ml 13 x 80mm RM10 (10m 13 x 100mm | 17 x 12 I) RM25 | (15ml) 20mm 5 (25ml) 00mm | RL10 (10ml) 16 x 100mm RL25 (25ml) 25 x 100mm RL50 (50ml) 35 x 110mm RL85 (85ml) 39 x 110mm | RX10 (10ml) 16 x 100mm RX25 (25ml) 25 x 100mm RX50 (50ml) 35 x 110mm RX85 (85ml) 39 x 110mm |
| | | | | | RX100 (100ml) 48 x 110mm RX175 (175ml) 62 x 121mm |

Microtube Rotors 15,000 Rpm

| With NEW high Domed polycarbonate lid | 0 | | 0 | 0 |
|--|------------|------------|------------|----------------|
| 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) |
| | A 1 | | | |

Refrigerated Centrifuges Only

| Minimum Temperature | 4°C | 4°C | 4°C | 4°C | |
|---|-----|-----|-----|-----|---|
| •••••••••••••••••••••••• | | | | | • |
| At maximum speed (relative to ream temperature at 22° C) | | | | | |

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

Reducers

(Pack of 24)

Rotor

| ers | 3 |
|-----|-------------------|
| | BRK5424 |
| er | RS04 (0.2 -0.4ml) |

| 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 $2 \times High$ 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.

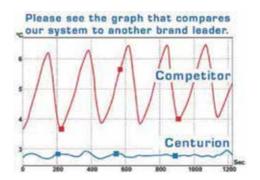
For 2016, a new larger, yet more efficient CFC free compressor has been used which gives lower power needs. To maintain the temperature, we have a highly efficient compressor gas bypass solenoid valve, where we pulse heat via a highly accurate controller system (PID controller, which calculates and manages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



K244FS/R Floor Standing Centrifuge (4L Max)



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 |

The following pages show available rotors.

Display indicative only

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 |

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)



Adaptors for Swing out rotors

| Inapo | Capacity Size To fit buckets B4000 | | | B4000 |
|----------|------------------------------------|----------------------|----------------------------|-----------------|
| | cupacity | 5120 | Part No. | Tubes per |
| 0 | Tubo tupo: | Aiero with | cap Shape:p | rotor |
| ň | 0.5m | 8x20 | AM805 | 120 |
| V | 1.5ml | 11x38 | AM820 | 84 |
| | 2.0ml | 11x38 | AM820 | 84 |
| | 0.2ml | 6x20 | AM802 | 168 |
| _ | 0.4ml | 6x30 | AM805 | 168 |
| n | ,, | | p Shape: rou | |
| - 11. J. | 1ml 3ml | 6x45 10x60 | AR801 AR803 | 168 96 |
| 0.0 | 5ml | 10x00 12x75 | AR805 | 96 |
| | 6ml | 12x82 | AR805 | 96 |
| | 7ml | 12x100 | AR807 | 96 |
| | 9/10ml 15ml | 14x100 17x100 | AR809 AR815 | 84 48 |
| | 25ml | 24x100 | AR815 AR825 | 28 |
| | 50ml | 34x100 | AR850 | 16 |
| | 100ml | 45x100 | AR8100 | 8 |
| | 150ml 250ml | 52x100 62x100 | AR8150 AR8250 | 4 4 |
| 10.000 | | | | |
| 177 | | | h cap Shape: | |
| 1.1 | 15ml 50ml | 17x120 29x115 | AF815 AF850 | 48 16 |
| | 175ml | 61x118 | AF8175 | 4 |
| | 15ml | 17x120 | | |
| 8 | Tube type: 0 | Corning wi | ith cap* Shap | e: point |
| | 250ml | 60x172 | AF8250 | 4 |
| 1.1 | 500ml | 98x148 | AF8500 | 4 |
| | | | h cap Shape: s | |
| 1 | 12ml | 17x100 | AFS812 | 48 |
| 2 | 25ml 30ml | 25x90 25x110 | AFS825 AFS830 | 28 28 |
| | 50ml | 29x115 | AF\$850 | 20 |
| | 15ml | 17x120 | AF\$850 | 48 |
| nÊ î | Tube type: I | Nalgene/C | Jakridge Shap | e: round |
| 161 | 10ml | 16x80 | ANO810 | 48 |
| ЧP | 30ml | 26x95 | ANO830 | 28 |
| | 50ml 100ml | 29x107 38x106 | ANO850 ANO885 | 24 12 |
| 6 | | | akridge* Sha | |
| 89 | 250ml | 62x130 | ANO8250 | 4 |
| \cup | 750ml | 98x153 | ANO8750 | 4 |
| | | | Shape: squai | |
| | 1.1-1.4ml | 8x82 | AM8014 | 96 |
| X | 2.7-3ml 2.6-2.9ml | 11x82 13x81 | AM803 AM829 | 76 76 |
| | 2.0-2.9mi 4.5-5ml | 13x81 11x108 | AM829 AM803 | 76 |
| | 7.5-8.2ml | 13x106 | AM879 | 76 |
| | 4.5-5ml | 15x92 | AM850 | 64 |
| | 9-10ml | 16x108 /acutainer | AM890 | 64 |
| | Tube type: \ 1.6-5ml | 13x75 | Shape: round AV816 | 76 |
| U | 4-7ml | 13x73 | AV850 | 76 |
| | 8.5-10ml | 16x100 | AV880 | 64 |
| | | | | |

56 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)

Set of 4



High Speed Fixed Angle Rotors 10,000 Rpm

| | | | Ÿ | 1000 | 2005 |
|------------------------------|-------------------------|-------------------|------------|--|--|
| Rotor | B | RK5224 | BRK5208 | BRK5210 | BRK5256 |
| Rotor type | 2 | 4 x 15ml | 8 x 50ml | 6 x 100ml | 6 x 250ml |
| Size max | 1 | 7 x 120mm | 30 x 120m | m 45 x 125mm | 62 x 130mm |
| Ninimum speed Rpr | m 5 | 00 | 500 | 500 | 500 |
| Maximum speed Rp | m 1 | 0,000 | 10,000 | 10,000 | 10,000 |
| Maximum Rcf (G) | | 3,400 | 13,400 | 13,400 | 15,650 |
| Radius max cms | 1 | 2 | 12 | 12 | 14 |
| Sample tube angle ° | 3 | 0 | 30 | 30 | 30 |
| Acceleration time (s | ••••• | 0 | 45 | 45 | 60 |
| Deceleration time (| secs) 4 | .0 | 45 | | 85 |
| Autoclavable (frequ | encv) 1 | 21°C (20) | 121°C (20) | | 121°C (20) |
| At maximum speed | | Pack of 4 | Pack of 4 | Pack of | |
| Rotor | BRK5224 | BRK52 | 208 | BRK5210 | BRK5256 |
| Part number Tube size max | RM05 (5ml) 13 x 80mm |) RM15 17 x 12 | | RL10 (10ml) 16 x 100mm | RX10 (10ml) 16 x 100mm |
| Part number | RM10 (10ml | | (25ml) | RL25 (25ml) | RX25 (25ml) |
| Tube size max | 13 x 100mm | 25 x 10 | 00mm | 25 x 100mm RL50 (50ml) 35 x 110mm RL85 (85ml) 39 x 110mm | 25 x 100mm RX50 (50ml) 35 x 110mm RX85 (85ml) 39 x 110mm RX100 (100ml) 48 x 110mm RX125 (175ml) |
| | | | | | 62 x 121mm |

Microtube Rotors 15,000 Rpm

| With NEW high Domed polycarbonate lid | 0 | 0 | 0 | |
|--|------------|------------|------------|----------------|
| 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) |
| | O 1 | | | |

Refrigerated Centrifuges Only

| Minimum Temperature | 4°C | 4°C | 4°C | 4°C | |
|---|-----|-----|-----|-----|---|
| •••••••••••••••••••••••• | | | | | • |
| At maximum speed (relative to ream temperature at 22° C) | | | | | |

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

Reducers

(Pack of 24)

| 1 |
|---|
| 1 |
| |
| |
| |

| 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 $2 \times High$ 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

| | 2 | 620 | (201) |
|--|---|---|--|
| Rotor | BRK5324 | BRK5308 | BRK5100 |
| Rotor type | 24 x 15ml | 8 x 50ml | 6 x 100ml |
| Size max | 17 x 120mm | a 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 (sec | cs) 35 | 35 | 35 |
| Deceleration time (sec | cs) 35 | 35 | 35 |
| Autoclavable (frequen | су) 121°С (20) | 121°C (20) | 121°C (20) |
| Refrigerated Cei | | | |
| Minimum Temperature | e 4°C | 4°C | 4°C |
| At maximum speed (re | elative to room temperatu | re at 23°C) | |
| | | | |
| Reducers | Pack of 4 | Pack of 4 | Pa |
| Reducers Rotor | Pack of 4 BRK5324 | Pack of 4 BRK5308 | BRK5100 |
| Rotor Part number | BRK5324 RM05 (5ml) | BRK5308 RM15 (15ml) | BRK5100 RL10 (10ml) |
| Rotor Part number Tube size max | BRK5324 RM05 (5ml) 13 x 80mm | BRK5308 RM15 (15ml) 17 x 120mm | BRK5100 RL10 (10ml) 16 x 100mm |
| Rotor Part number Tube size max Part number | BRK5324 RM05 (5ml) 13 x 80mm RM10 (10ml) | BRK5308 RM15 (15ml) 17 x 120mm RM25 (25ml) | BRK5100 RL10 (10ml) 16 x 100mm RL25 (25ml) |
| Rotor Part number Tube size max | BRK5324 RM05 (5ml) 13 x 80mm | BRK5308 RM15 (15ml) 17 x 120mm | BRK5100 RL10 (10ml) 16 x 100mm RL25 (25ml) 25 x 100mm |
| Rotor Part number Tube size max Part number | BRK5324 RM05 (5ml) 13 x 80mm RM10 (10ml) | BRK5308 RM15 (15ml) 17 x 120mm RM25 (25ml) | BRK5100 RL10 (10ml) 16 x 100mm RL25 (25ml) 25 x 100mm RL50 (50ml) |
| Rotor Part number Tube size max Part number | BRK5324 RM05 (5ml) 13 x 80mm RM10 (10ml) | BRK5308 RM15 (15ml) 17 x 120mm RM25 (25ml) | BRK5100 RL10 (10ml) 16 x 100mm RL25 (25ml) 25 x 100mm |

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

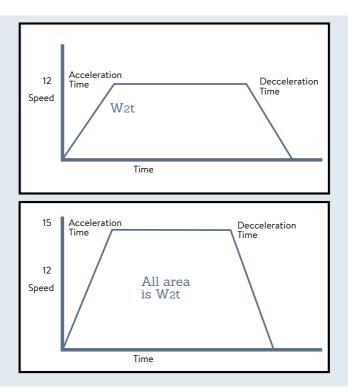
W2t

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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