

PrO-Research

a division of

CENTURION
SCIENTIFIC LIMITED

Floor centrifuge range 4 Litre

LCD touch screen control panel



**Research,
Pharmaceuticals
& Universities**

2022.2

PrO-Research Centrifuge Features

Built to last, these Centrifuges have strong construction yet, offer a sleek modern design that will fit into any modern laboratory.

No compromises on quality, only the best components are used in the manufacturing process.

By working with all our suppliers, our reliability has been retained and improved to give all our range a 2 year warranty as standard.



CE marked and ISO 9001 & 13485

| User features to PrO-Analytical series | Advantages |
|--|---------------------------------------|
| LCD touch screen control | Clarity & ease of use |
| Rotor recognition | Safe selection of rotors |
| 10 acceleration rates & 10 deceleration rates | Sample assistance |
| 99 program memory | Multi department & Users |
| Timer 0-99, Hours & Hold in 1 second increments | Total flexibility |
| Pulse short run | Fast pelleting |
| Run in speed (rpm) or rcf (G) in 10 rpm increments | Accuracy |
| Orientation acceleration rate | Prevents initial sample side deposits |
| Sound <60db (rotor dependent) | Quiet |

| Standard features to PrO-Analytical series | Advantages |
|---|--------------------------------|
| Extra thick stainless steel bowl or acrylic | 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-Analytical series | 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 | Stops the run if out of balance |
| Overspeed sensor | Safe detection of speed |
| Set inverter values | Electronic safety of speed |
| Barrier ring | Safety protection of chamber |
| Motor overheat sensor | Safe motor protection |

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

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Refrigerated Centrifuges

Dynamics rooted in innovation

Accuracy and control using less power.

How?

Centurion Scientific Ltd keep the compressor running constantly, sounds odd but this method increases compressor life and reduces power dramatically.

Constantly turning a compressor on and off means a huge surge of power on each action, plus poor temperature control. See graph below, to control the accuracy to an unprecedented level we balance and control with a heater. This is controlled by a PID system offering top level control.

Why?

Imagine using a shower, you turn on both hot water and cold to reach your desired temperature.

You would not stand in cold water, then hot to regulate temperature.

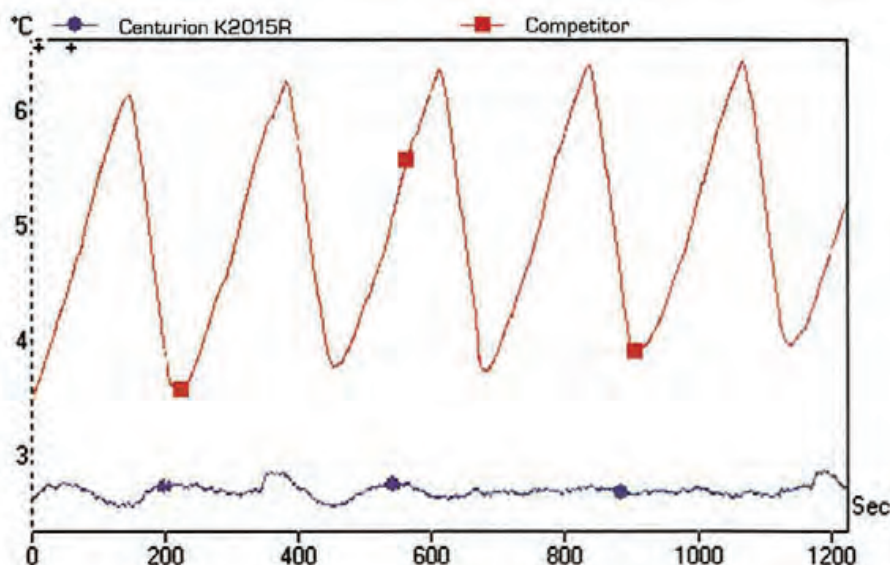
By using both cold and hot we “balance” the set temperature. As we have been using this method for over 27 years it is a proven technology.

Proof

See the graph below.

Centurion is set at 3C and a well known competitor at 4C to differentiate.

As you can clearly see our system has control and repeatability beyond our competition.



Floor Centrifuges to 4Litre max Prime multi rotor Centrifuges

K2FS4/R Floor Standing Centrifuge (4L Max)



Display indicative only

K2FS4 Ambient

K2FS4.(230V 50/60Hz). 1.K2FS4.(110V 60Hz)

| | |
|--------------------|--------------------------------|
| Speed | 15,000 Rpm max(1 Rpm steps) |
| Rcf Max | 10 - 24,000 G |
| Timer | 0-99hours & Hold (1 sec steps) |
| Dims HWD | 1000 x 575 x 660mm |
| Weight | 80 Kg (without rotor) |
| Power | 1200 Watts |
| Memory | 99 programs |
| Accel rates | 10 programs |
| Decel rates | 10 programs |

K2FS4R Refrigerated

K2FS4R.(230V 50/60Hz). 1.K2FS4R.(110V 60Hz).

| | |
|--------------------|--|
| Speed | 15,000 Rpm max(1 Rpm steps) |
| Rcf Max | 10 - 24,000 G |
| Timer | 0-99hours & Hold (1 sec steps) |
| Dims HWD | 1000 x 575 x 660mm |
| Weight | 115 Kg (without rotor) |
| Power | 1200 Watts |
| Memory | 99 programs |
| Accel rates | 10 programs |
| Decel rates | 10 programs |
| Temp | -10°C to + 40°C PID Controlled to + / - 1°C |

The following pages show available rotors.

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Swing out Rotor 4 x 1000ml Max. 4,500 Rcf (G)

BRK3000

4 Litre max capacity

B4001 Bucket (set 4) REQUIRED.
1000ml max per Bucket



Shown with optional B5319 sealed lids

Adaptors required see following page

| Rotor/Buckets | BRK3000. B4001 Buckets |
|----------------------------|------------------------|
| Tube size max | 98 x 180mm |
| Minimum Rcf (G) | 10 |
| Maximum Speed | 4000Rpm |
| Maximum Rcf (G) | 4500 |
| Radius max cms | 25.5 |
| Sample tube angle ° | 0 |
| Acceleration time (secs) | 45 |
| Deceleration time (secs) | 60 |
| Autoclavable (frequency) | 121°C (20) |
| Minimum Temperature @ 23°C | 4°C |

Adaptors for Buckets. B4001 Pack of 4

| Capacity | Size. mm | Part Number | Tubes per rotor |
|----------|----------|-------------|-----------------|
|----------|----------|-------------|-----------------|

Tube type: Micro with cap. Shape: Point

| | | | |
|-------|---------|---------|-----|
| 0.5ml | 8 x 20 | AM805-4 | 288 |
| 1.5ml | 11 x 38 | AM820-4 | 184 |
| 2.0ml | 11 x 38 | AM820-4 | 184 |
| 0.2ml | 6 x 20 | AM802-4 | 336 |
| 0.4ml | 6 x 30 | AM804-4 | 336 |

Tube type: Plain no cap. Shape: Round

| | | | |
|--------|----------|----------|-----|
| 1ml | 6 x 45 | AR801-4 | 168 |
| 3ml | 10 x 60 | AR803-4 | 96 |
| 5ml | 12 x 75 | AR805-4 | 96 |
| 6ml | 12 x 82 | AR806-4 | 96 |
| 7ml | 12 x 100 | AR807-4 | 96 |
| 9/10ml | 14 x 100 | AR809-4 | 84 |
| 15ml | 17 x 100 | AR815-4 | 48 |
| 25ml | 24 x 100 | AR825-4 | 28 |
| 50ml | 34 x 100 | AR850-4 | 16 |
| 100ml | 45 x 100 | AR8100-4 | 8 |
| 125ml | 52 x 100 | AR8150-4 | 4 |
| 250ml | 62 x 100 | AR8250-4 | 4 |

Tube type: Falcon with cap. Shape: Point

| | | | |
|-------|----------|----------|----|
| 15ml | 17 x 120 | AF815-4 | 36 |
| 50ml | 29 x 115 | AF850-4 | 24 |
| 175ml | 61 x 118 | AF8175-4 | 4 |

Tube type: Falcon with cap. Shape: Square

| | | | |
|------|----------|----------|----|
| 12ml | 17 x 100 | AFS812-4 | 48 |
| 15ml | 17 x 120 | AFS815-4 | 48 |
| 25ml | 25 x 90 | AFS825-4 | 28 |
| 30ml | 25 x 110 | AFS830-4 | 28 |
| 50ml | 29 x 115 | AFS850-4 | 24 |

Tube type: Corning with cap. Shape: point

| | | | |
|-------|----------|----------|---|
| 250ml | 60 x 172 | AF8250-4 | 4 |
| 500ml | 98 x 148 | AF8500-4 | 4 |

Tube type: Nalgene. Oakridge with cap. Shape: Round

| | | | |
|-------|----------|-----------|----|
| 10ml | 15 x 80 | ANO810-4 | 64 |
| 30ml | 26 x 95 | ANO830-4 | 28 |
| 50ml | 29 x 107 | ANO850-4 | 24 |
| 100ml | 38 x 106 | ANO8100-4 | 12 |
| 250ml | 62 x 133 | ANO8250-4 | 4 |

Tube type: Nalgene. Oakridge with cap. Shape: Square

| | | | |
|--------|----------|-----------|----------|
| 250ml | 60 x 172 | ANO8252-4 | 4 |
| 500ml | 98 x 148 | AH2695R | 4 No lid |
| 750ml | 60 x 160 | AH2695R | 4 No lid |
| 1000ml | 98 x 170 | AH2695R | 4 No lid |

Tube type: Monovette. Shape Square

| | | | |
|-----------|----------|---------|-----|
| 1.1-1.4ml | 8 x 82 | AM801-4 | 112 |
| 2.7-3ml | 11 x 82 | AM803-4 | 76 |
| 2.6-2.9ml | 13 x 81 | AM829-4 | 76 |
| 4.5-5ml | 11 x 108 | AM845-4 | 76 |
| 7.5-8.2ml | 13 x 106 | AM879-4 | 76 |
| 4.5-5ml | 15 x 92 | AM850-4 | 64 |
| 9-10ml | 16 X 108 | AM890-4 | 64 |

Tube type: Vacutainer. Shape: Round also Vacuette

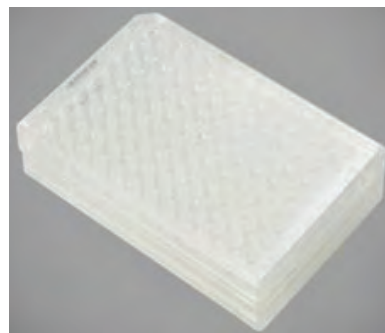
| | | | |
|----------|----------|---------|----|
| 1.6-5ml | 13 x 82 | AV816-4 | 76 |
| 4-7ml | 13 x 106 | AV850-4 | 76 |
| 7-9ml | 15 x 92 | AV870-4 | 64 |
| 8.5-10ml | 16 x 108 | AV880-4 | 64 |



8 Microtitor Plate Rotor 4 x Standard or 2 x High Plates



| Rotor | BRK5540 |
|-----------------------------|---|
| | Complete with buckets |
| Rotor type | Tube size max |
| | Available with 4 x STD Plates 85mmx128mm |
| Minimum Rcf (G) | 10 |
| Maximum Rcf (G) | 2500 |
| Maximum Rpm | 3500 |
| Radius max cms | 14 |
| Sample tube angle ° | 0°C (10) |
| Acceleration time (secs) | 30 |
| Deceleration time (secs) | 30 |
| Autoclavable (frequency) | 121°C (10) |
| Minimum Temperature (@ 23°C | 4°C |



Rotor Details

Rotors 16,100 Rcf (G)

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| Rotor | BRK5256 |
|--------------------------|------------|
| Rotor type | 6 x 250ml |
| Tube size max | 62 x 130mm |
| Minimum Rcf (G) | 10 |
| Maximum Rcf (G) | 16,100 |
| Maximum Speed | 10,000 |
| Radius max cms | 14.4 |
| Sample tube angle ° | 30 |
| Acceleration time (secs) | 90 |
| Deceleration time (secs) | 180 |
| Autoclavable (frequency) | 121°C (10) |

Refrigerated Centrifuges Only

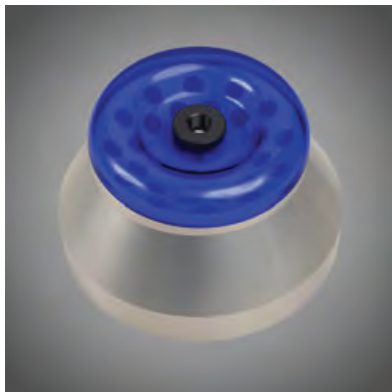
Minimum Temperature 4°C

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

Reducers pack of 4

| | | | | |
|----------------------|-------------|---------------|---------------|-------------|
| Rotor | BRK5256 | | | |
| Part number | RX10 (10ml) | RX25 (25ml) | RX50 (50ml) | RX15 (15ml) |
| Tube size max | 16 x 100mm | 25 x 100mm | 35 x 110mm | 17 x 120mm |
| Part number | RX85 (85ml) | RX100 (100ml) | RX175 (175ml) | |
| Tube size max | 39 x 110mm | 48 x 110mm | 62 x 121mm | |

10 High Speed fixed angle rotors to 13,400 Rcf (G)



Sealed lid included

| Rotor | BRK5224 | BRK5208 | BRK5210 |
|---|------------|------------|------------|
| Rotor type | 24 x 15ml | 8 x 50ml | 6 x 100ml |
| Tube size max | 17 x 120mm | 30 x 120mm | 38 x 125mm |
| Minimum Rcf (G) | 10 | 10 | 10 |
| Maximum Rcf (G) | 13,400 | 13,400 | 13,400 |
| Maximum Speed | 10,000 | 10,000 | 10,000 |
| Radius max cms | 12 | 12 | 12 |
| Sample tube angle ° | 30 | 30 | 30 |
| Acceleration time (secs) | 70 | 70 | 70 |
| Deceleration time (secs) | 130 | 130 | 130 |
| Autoclavable (frequency) | 121°C (10) | 121°C (10) | 121°C (10) |
| Refrigerated Centrifuges Only | | | |
| Minimum Temperature | 4°C | 4°C | 4°C |
| At maximum speed (relative to room temperature at 23°C) | | | |

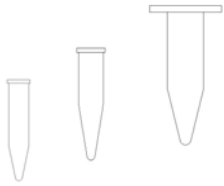
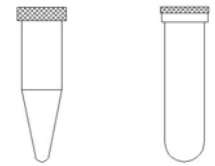
See following pages for Reducers available

Reducers Fixed angle rotor BRK5224 Pack of 4 (Tubes per rotor 24)

Capacity **Size. mm** **Part Number** **Rcf (G) max**

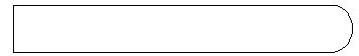
Tube type: Micro with cap. Shape: Point

| | | | Outer | Inner |
|-------|---------|---------|-------|-------|
| 0.2ml | 6 x 20 | RS.620 | 9700 | 7800 |
| 0.4ml | 6 x 30 | RS.630 | 10300 | 8300 |
| 0.5ml | 8 x 20 | RS.820 | 9700 | 7800 |
| 1.5ml | 11 x 38 | RS.1138 | 10600 | 8600 |
| 2.0ml | 11 x 38 | RS.1138 | 10600 | 8600 |



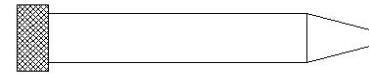
Tube type: Plain no cap. Shape: Round

| | | | | |
|--------|----------|--------------|-------|-------|
| 1ml | 6 x 45 | RS.645 | 11000 | 9200 |
| 3ml | 10 x 60 | RS.1060 | 11700 | 9700 |
| 5ml | 12 x 75 | RS.1275 | 12200 | 10300 |
| 6ml | 12 x 82 | RS.1282 | 12800 | 10800 |
| 7ml | 12 x 100 | RS.12100 | 13400 | 11400 |
| 9/10ml | 14 x 100 | RS.14100 | 13400 | 11400 |
| 15ml | 17 x 100 | Not required | 13400 | 11400 |



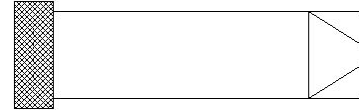
Tube type: Falcon with cap. Shape: Point

| | | | | |
|------|----------|--------------|-------|-------|
| 15ml | 17 x 120 | Not required | 13400 | 11400 |
|------|----------|--------------|-------|-------|



Tube type: Falcon with cap. Shape: Square

| | | | | |
|------|----------|--------------|-------|-------|
| 12ml | 17 x 100 | Not required | 13400 | 11400 |
| 15ml | 17 x 120 | Not required | 13400 | 11400 |



Tube type: Nalgene. Oakridge with cap. Shape: Round

| | | | | |
|------|---------|---------|-------|-------|
| 10ml | 15 x 80 | RS.1580 | 12800 | 10800 |
|------|---------|---------|-------|-------|



Tube type: Monovette. Shape Square

| | | | | |
|-----------|----------|--------------|-------|-------|
| 1.1-1.4ml | 8 x 82 | RU.882 | 12800 | 10800 |
| 2.7-3ml | 11 x 82 | RU.1182 | 12800 | 10800 |
| 2.6-2.9ml | 13 x 81 | RU.1381 | 12800 | 10800 |
| 4.5-5ml | 11 x 108 | RU.11108 | 13400 | 11400 |
| 7.5-8.2ml | 13 x 106 | RU.13106 | 13400 | 11400 |
| 4.5-5ml | 15 x 92 | RU.1592 | 13100 | 11100 |
| 9-10ml | 16 X 108 | Not required | 13400 | 11400 |



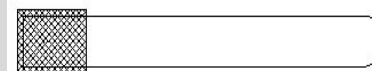
Tube type: Vacutainer. Shape: Round

| | | | | |
|----------|----------|--------------|-------|-------|
| 1.6-5ml | 13 x 82 | RU.1382 | 12800 | 10800 |
| 4-7ml | 13 x 106 | RU.13106 | 13400 | 11400 |
| 7-9ml | 15 x 92 | RU.1592 | 13100 | 11100 |
| 8.5-10ml | 16 x 108 | Not required | 13400 | 11400 |



Tube type: Vacuette. Shape: Round

| | | | | |
|----------|----------|--------------|-------|-------|
| 1.6-5ml | 13 x 82 | RU.1382 | 12800 | 10800 |
| 4-7ml | 13 x 106 | RU.13106 | 13400 | 11400 |
| 7-9ml | 15 x 92 | RU.1592 | 13100 | 11100 |
| 8.5-10ml | 16 x 108 | Not required | 13400 | 11400 |

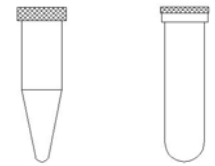


Reducers Fixed angle rotor BRK5208 Pack of 4 (tubes per rotor 8)

Capacity **Size. mm** **Part Number** **Rcf (G) max**

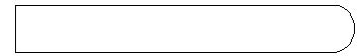
Tube type: Micro with cap. Shape: Point

| | | | |
|-------|---------|----------|------|
| 0.2ml | 6 x 20 | RSB.620 | 8700 |
| 0.4ml | 6 x 30 | RSB.630 | 9200 |
| 0.5ml | 8 x 20 | RSB.820 | 8700 |
| 1.5ml | 11 x 38 | RSB.1138 | 9800 |
| 2.0ml | 11 x 38 | RSB.1138 | 9800 |



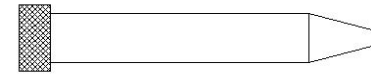
Tube type: Plain no cap. Shape: Round

| | | | |
|--------|----------|-----------|-------|
| 1ml | 6 x 45 | RSB.645 | 10100 |
| 3ml | 10 x 60 | RSB.1060 | 11200 |
| 5ml | 12 x 75 | RSB.1275 | 12300 |
| 6ml | 12 x 82 | RSB.1282 | 12600 |
| 7ml | 12 x 100 | RSB.12100 | 13400 |
| 9/10ml | 14 x 100 | RSB.14100 | 13400 |
| 15ml | 17 x 100 | RSB.17100 | 13400 |
| 25ml | 24 x 100 | RSB.24100 | 13400 |



Tube type: Falcon with cap. Shape: Point

| | | | |
|------|----------|--------------|-------|
| 15ml | 17 x 120 | RUB.17120 | 13400 |
| 50ml | 29 x 115 | Not required | 13400 |



Tube type: Falcon with cap. Shape: Square

| | | | |
|------|----------|--------------|-------|
| 12ml | 17 x 100 | RUB.17100 | 13400 |
| 15ml | 17 x 120 | RUB.17120 | 13400 |
| 25ml | 25 x 90 | RUB.2590 | 12300 |
| 30ml | 25 x 110 | RUB.25110 | 13400 |
| 50ml | 29 x 115 | Not required | 13400 |



Tube type: Nalgene. Oakridge with cap. Shape: Round

| | | | |
|------|----------|--------------|-------|
| 10ml | 15 x 80 | RUB.1580 | 11700 |
| 30ml | 26 x 95 | RUB.2695 | 12300 |
| 50ml | 29 x 107 | Not required | 13400 |



Tube type: Monovette. Shape Square

| | | | |
|-----------|----------|-----------|-------|
| 1.1-1.4ml | 8 x 82 | RUB.882 | 11700 |
| 2.7-3ml | 11 x 82 | RUB.1182 | 11700 |
| 2.6-2.9ml | 13 x 81 | RUB.1381 | 11700 |
| 4.5-5ml | 11 x 108 | RUB.11108 | 13400 |
| 7.5-8.2ml | 13 x 106 | RUB.13106 | 13400 |
| 4.5-5ml | 15 x 92 | RUB.1592 | 12000 |
| 9-10ml | 16 X 108 | RUB.16108 | 13400 |



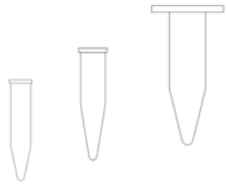
Tube type: Vacutainer. Shape: Round

| | | | |
|----------|----------|-----------|-------|
| 1.6-5ml | 13 x 82 | RUB.1382 | 11700 |
| 4-7ml | 13 x 106 | RUB.13106 | 13400 |
| 7-9ml | 15 x 92 | RUB.1592 | 12000 |
| 8.5-10ml | 16 x 108 | RUB.16108 | 13400 |



Tube type: Vacuette. Shape: Round

| | | | |
|----------|----------|-----------|-------|
| 1.6-5ml | 13 x 82 | RUB.1382 | 11700 |
| 4-7ml | 13 x 106 | RUB.13106 | 13400 |
| 7-9ml | 15 x 92 | RUB.1592 | 12000 |
| 8.5-10ml | 16 x 108 | RUB.16108 | 13400 |



Reducers Fixed angle rotor BRK5210 Pack of 4 (tubes per rotor 6)

Capacity **Size. mm** **Part Number** **Rcf (G) max**

Tube type: Micro with cap. Shape: Point

| | | | |
|-------|---------|----------|------|
| 0.2ml | 6 x 20 | RSC.620 | 8700 |
| 0.4ml | 6 x 30 | RSC.630 | 9200 |
| 0.5ml | 8 x 20 | RSC.820 | 8700 |
| 1.5ml | 11 x 38 | RSC.1138 | 9800 |
| 2.0ml | 11 x 38 | RSC.1138 | 9800 |

Tube type: Plain no cap. Shape: Round

| | | | |
|--------|----------|-----------|--------|
| 1ml | 6 x 45 | RSC.645 | 10100 |
| 3ml | 10 x 60 | RSC.1060 | 11200 |
| 5ml | 12 x 75 | RSC.1275 | 12300 |
| 6ml | 12 x 82 | RSC.1282 | 12600 |
| 7ml | 12 x 100 | RSC.12100 | 13400 |
| 9/10ml | 14 x 100 | RSC.14100 | 134000 |
| 15ml | 17 x 100 | RSC.17100 | 13400 |
| 25ml | 24 x 100 | RSC.24100 | 13400 |
| 50ml | 34 x 100 | RSC.34100 | 13400 |

Tube type: Falcon with cap. Shape: Point

| | | | |
|------|----------|-----------|-------|
| 15ml | 17 x 120 | RUC.17120 | 13400 |
| 50ml | 29 x 115 | RUC.29115 | 13400 |

Tube type: Falcon with cap. Shape: Square

| | | | |
|------|----------|-----------|-------|
| 12ml | 17 x 100 | RUC.17100 | 13400 |
| 15ml | 17 x 120 | RUC.17120 | 4800 |
| 25ml | 25 x 90 | RUC.2590 | 13400 |
| 30ml | 25 x 110 | RUC.25110 | 13400 |
| 50ml | 29 x 115 | RUC.29115 | 13400 |

Tube type: Nalgene. Oakridge with cap. Shape: Round

| | | | |
|-------|----------|-----------|-------|
| 10ml | 15 x 80 | RUC.1580 | 11700 |
| 30ml | 26 x 95 | RUC.2695 | 12300 |
| 50ml | 29 x 107 | RUC.29107 | 13400 |
| 100ml | 38 x 106 | RUC.38106 | 13400 |

Tube type: Monovette. Shape Square

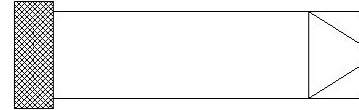
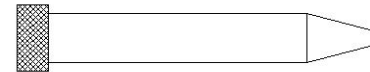
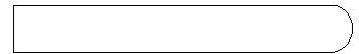
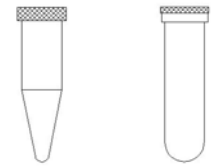
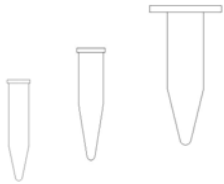
| | | | |
|-----------|----------|-----------|-------|
| 1.1-1.4ml | 8 x 82 | RUC.882 | 11700 |
| 2.7-3ml | 11 x 82 | RUC.1182 | 11700 |
| 2.6-2.9ml | 13 x 81 | RUC.1381 | 11700 |
| 4.5-5ml | 11 x 108 | RUC.11108 | 13400 |
| 7.5-8.2ml | 13 x 106 | RUC.13106 | 13400 |
| 4.5-5ml | 15 x 92 | RUC.1592 | 12000 |
| 9-10ml | 16 X 108 | RUC.16108 | 13400 |

Tube type: Vacutainer. Shape: Round

| | | | |
|----------|----------|-----------|-------|
| 1.6-5ml | 13 x 82 | RUC.1382 | 11700 |
| 4-7ml | 13 x 106 | RUC.13106 | 13400 |
| 7-9ml | 15 x 92 | RUC.1592 | 12000 |
| 8.5-10ml | 16 x 108 | RUC.16108 | 13400 |

Tube type: Vacuette. Shape: Round

| | | | |
|----------|----------|-----------|-------|
| 1.6-5ml | 13 x 82 | RUC.1382 | 11700 |
| 4-7ml | 13 x 106 | RUC.13106 | 13400 |
| 7-9ml | 15 x 92 | RUC.1592 | 12000 |
| 8.5-10ml | 16 x 108 | RUC.16108 | 13400 |



14 Large fixed angle rotors to 4,800 Rcf (G)



Sealed lid included

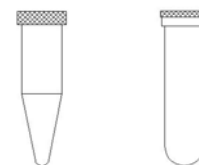
| Rotor | BRK5324 | BRK5308 | BRK5100 |
|---|------------|------------|------------|
| Rotor type | 24 x 15ml | 8 x 50ml | 6 x 100ml |
| Tube size max | 17 x 120mm | 30 x 120mm | 45 x 125mm |
| Minimum Rcf (G) | 10 | 10 | 10 |
| Maximum Rcf (G) | 4,800 | 4,800 | 4,800 |
| Maximum Speed | 6,000 | 6,000 | 6,000 |
| Radius max cms | 12 | 12 | 12 |
| Sample tube angle ° | 30 | 30 | 30 |
| Acceleration time (secs) | 30 | 30 | 30 |
| Deceleration time (secs) | 35 | 35 | 35 |
| Autoclavable (frequency) | 121°C (10) | 121°C (10) | 121°C (10) |
| Refrigerated Centrifuges Only | | | |
| Minimum Temperature | 4°C | 4°C | 4°C |
| At maximum speed (relative to room temperature at 23°C) | | | |

Reducers Fixed angle rotor BRK5324 Pack of 4 (Tubes per rotor 24)

Capacity **Size. mm** **Part Number** **Rcf (G) max**

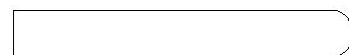
Tube type: Micro with cap. Shape: Point

| | | | Outer | Inner |
|-------|---------|---------|-------|-------|
| 0.2ml | 6 x 20 | RS.620 | 3500 | 2800 |
| 0.4ml | 6 x 30 | RS.630 | 3700 | 3000 |
| 0.5ml | 8 x 20 | RS.820 | 3500 | 2800 |
| 1.5ml | 11 x 38 | RS.1138 | 3800 | 3100 |
| 2.0ml | 11 x 38 | RS.1138 | 3800 | 3100 |



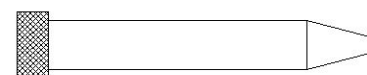
Tube type: Plain no cap. Shape: Round

| | | | | |
|--------|----------|--------------|------|------|
| 1ml | 6 x 45 | RS.645 | 3950 | 3300 |
| 3ml | 10 x 60 | RS.1060 | 4200 | 3500 |
| 5ml | 12 x 75 | RS.1275 | 4400 | 3700 |
| 6ml | 12 x 82 | RS.1282 | 4600 | 3900 |
| 7ml | 12 x 100 | RS.12100 | 4800 | 4100 |
| 9/10ml | 14 x 100 | RS.14100 | 4800 | 4100 |
| 15ml | 17 x 100 | Not required | 4800 | 4100 |



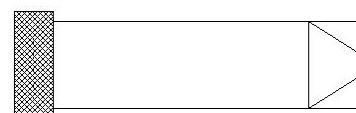
Tube type: Falcon with cap. Shape: Point

| | | | | |
|------|----------|--------------|------|------|
| 15ml | 17 x 120 | Not required | 4800 | 4100 |
|------|----------|--------------|------|------|



Tube type: Falcon with cap. Shape: Square

| | | | | |
|------|----------|--------------|------|------|
| 12ml | 17 x 100 | Not required | 4800 | 4100 |
| 15ml | 17 x 120 | Not required | 4800 | 4100 |



Tube type: Nalgene. Oakridge with cap. Shape: Round

| | | | | |
|------|---------|---------|------|------|
| 10ml | 15 x 80 | RS.1580 | 4600 | 3900 |
|------|---------|---------|------|------|



Tube type: Monovette. Shape Square

| | | | | |
|-----------|----------|--------------|------|------|
| 1.1-1.4ml | 8 x 82 | RU.882 | 4600 | 3900 |
| 2.7-3ml | 11 x 82 | RU.1182 | 4600 | 3900 |
| 2.6-2.9ml | 13 x 81 | RU.1381 | 4600 | 3900 |
| 4.5-5ml | 11 x 108 | RU.11108 | 4800 | 4100 |
| 7.5-8.2ml | 13 x 106 | RU.13106 | 4800 | 4100 |
| 4.5-5ml | 15 x 92 | RU.1592 | 4700 | 4000 |
| 9-10ml | 16 X 108 | Not required | 4800 | 4100 |



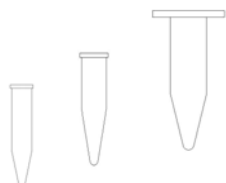
Tube type: Vacutainer. Shape: Round

| | | | | |
|----------|----------|--------------|------|------|
| 1.6-5ml | 13 x 82 | RU.1382 | 4600 | 3900 |
| 4-7ml | 13 x 106 | RU.13106 | 4800 | 4100 |
| 7-9ml | 15 x 92 | RU.1592 | 4700 | 4000 |
| 8.5-10ml | 16 x 108 | Not required | 4800 | 4100 |



Tube type: Vacuette. Shape: Round

| | | | | |
|----------|----------|--------------|------|------|
| 1.6-5ml | 13 x 82 | RU.1382 | 4600 | 3900 |
| 4-7ml | 13 x 106 | RU.13106 | 4800 | 4100 |
| 7-9ml | 15 x 92 | RU.1592 | 4700 | 4000 |
| 8.5-10ml | 16 x 108 | Not required | 4800 | 4100 |

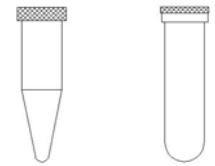


Reducers Fixed angle rotor BRK5308 Pack of 4 (tubes per rotor 24)

Capacity **Size. mm** **Part Number** **Rcf (G) max**

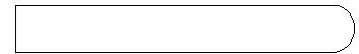
Tube type: Micro with cap. Shape: Point

| | | | |
|-------|---------|----------|------|
| 0.2ml | 6 x 20 | RSB.620 | 3100 |
| 0.4ml | 6 x 30 | RSB.630 | 3300 |
| 0.5ml | 8 x 20 | RSB.820 | 3100 |
| 1.5ml | 11 x 38 | RSB.1138 | 3500 |
| 2.0ml | 11 x 38 | RSB.1138 | 3500 |



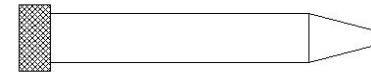
Tube type: Plain no cap. Shape: Round

| | | | |
|--------|----------|-----------|------|
| 1ml | 6 x 45 | RSB.645 | 3600 |
| 3ml | 10 x 60 | RSB.1060 | 4000 |
| 5ml | 12 x 75 | RSB.1275 | 4400 |
| 6ml | 12 x 82 | RSB.1282 | 4500 |
| 7ml | 12 x 100 | RSB.12100 | 4800 |
| 9/10ml | 14 x 100 | RSB.14100 | 4800 |
| 15ml | 17 x 100 | RSB.17100 | 4800 |
| 25ml | 24 x 100 | RSB.24100 | 4800 |



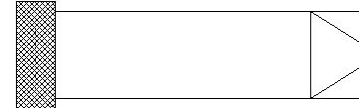
Tube type: Falcon with cap. Shape: Point

| | | | |
|------|----------|--------------|------|
| 15ml | 17 x 120 | RUB.17120 | 4800 |
| 50ml | 29 x 115 | Not required | 4800 |



Tube type: Falcon with cap. Shape: Square

| | | | |
|------|----------|--------------|------|
| 12ml | 17 x 100 | RUB.17100 | 4800 |
| 15ml | 17 x 120 | RUB.17120 | 4800 |
| 25ml | 25 x 90 | RUB.2590 | 4400 |
| 30ml | 25 x 110 | RUB.25110 | 4800 |
| 50ml | 29 x 115 | Not required | 4800 |



Tube type: Nalgene. Oakridge with cap. Shape: Round

| | | | |
|------|----------|--------------|------|
| 10ml | 15 x 80 | RUB.1580 | 4200 |
| 30ml | 26 x 95 | RUB.2695 | 4400 |
| 50ml | 29 x 107 | Not required | 4800 |



Tube type: Monovette. Shape Square

| | | | |
|-----------|----------|-----------|------|
| 1.1-1.4ml | 8 x 82 | RUB.882 | 4200 |
| 2.7-3ml | 11 x 82 | RUB.1182 | 4200 |
| 2.6-2.9ml | 13 x 81 | RUB.1381 | 4200 |
| 4.5-5ml | 11 x 108 | RUB.11108 | 4800 |
| 7.5-8.2ml | 13 x 106 | RUB.13106 | 4800 |
| 4.5-5ml | 15 x 92 | RUB.1592 | 4300 |
| 9-10ml | 16 X 108 | RUB.16108 | 4800 |



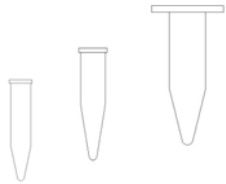
Tube type: Vacutainer. Shape: Round

| | | | |
|----------|----------|-----------|------|
| 1.6-5ml | 13 x 82 | RUB.1382 | 4200 |
| 4-7ml | 13 x 106 | RUB.13106 | 4800 |
| 7-9ml | 15 x 92 | RUB.1592 | 4300 |
| 8.5-10ml | 16 x 108 | RUB.16108 | 4800 |



Tube type: Vacuette. Shape: Round

| | | | |
|----------|----------|-----------|------|
| 1.6-5ml | 13 x 82 | RUB.1382 | 4200 |
| 4-7ml | 13 x 106 | RUB.13106 | 4800 |
| 7-9ml | 15 x 92 | RUB.1592 | 4300 |
| 8.5-10ml | 16 x 108 | RUB.16108 | 4800 |



Reducers Fixed angle rotor BRK5100 Pack of 4 (tubes per rotor 6)

Capacity **Size. mm** **Part Number** **Rcf (G) max**

Tube type: Micro with cap. Shape: Point

| | | | |
|-------|---------|----------|------|
| 0.2ml | 6 x 20 | RSC.620 | 3100 |
| 0.4ml | 6 x 30 | RSC.630 | 3300 |
| 0.5ml | 8 x 20 | RSC.820 | 3100 |
| 1.5ml | 11 x 38 | RSC.1138 | 3500 |
| 2.0ml | 11 x 38 | RSC.1138 | 3500 |

Tube type: Plain no cap. Shape: Round

| | | | |
|--------|----------|-----------|------|
| 1ml | 6 x 45 | RSC.645 | 3600 |
| 3ml | 10 x 60 | RSC.1060 | 4000 |
| 5ml | 12 x 75 | RSC.1275 | 4400 |
| 6ml | 12 x 82 | RSC.1282 | 4500 |
| 7ml | 12 x 100 | RSC.12100 | 4800 |
| 9/10ml | 14 x 100 | RSC.14100 | 4800 |
| 15ml | 17 x 100 | RSC.17100 | 4800 |
| 25ml | 24 x 100 | RSC.24100 | 4800 |
| 50ml | 34 x 100 | RSC.34100 | 4800 |

Tube type: Falcon with cap. Shape: Point

| | | | |
|------|----------|-----------|------|
| 15ml | 17 x 120 | RUC.17120 | 4800 |
| 50ml | 29 x 115 | RUC.29115 | 4800 |

Tube type: Falcon with cap. Shape: Square

| | | | |
|------|----------|-----------|------|
| 12ml | 17 x 100 | RUC.17100 | 4800 |
| 15ml | 17 x 120 | RUC.17120 | 4800 |
| 25ml | 25 x 90 | RUC.2590 | 4400 |
| 30ml | 25 x 110 | RUC.25110 | 4800 |
| 50ml | 29 x 115 | RUC.29115 | 4800 |

Tube type: Nalgene. Oakridge with cap. Shape: Round

| | | | |
|-------|----------|-----------|------|
| 10ml | 15 x 80 | RUC.1580 | 4200 |
| 30ml | 26 x 95 | RUC.2695 | 4400 |
| 50ml | 29 x 107 | RUC.29107 | 4800 |
| 100ml | 38 x 106 | RUC.38106 | 4800 |

Tube type: Monovette. Shape Square

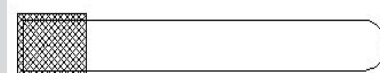
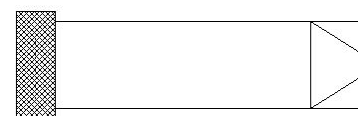
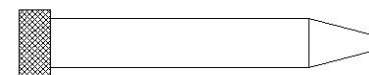
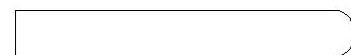
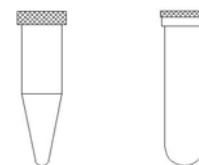
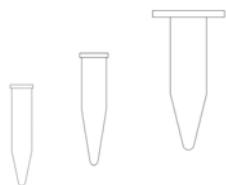
| | | | |
|-----------|----------|-----------|------|
| 1.1-1.4ml | 8 x 82 | RUC.882 | 4200 |
| 2.7-3ml | 11 x 82 | RUC.1182 | 4200 |
| 2.6-2.9ml | 13 x 81 | RUC.1381 | 4200 |
| 4.5-5ml | 11 x 108 | RUC.11108 | 4800 |
| 7.5-8.2ml | 13 x 106 | RUC.13106 | 4800 |
| 4.5-5ml | 15 x 92 | RUC.1592 | 4300 |
| 9-10ml | 16 X 108 | RUC.16108 | 4800 |

Tube type: Vacutainer. Shape: Round

| | | | |
|----------|----------|-----------|------|
| 1.6-5ml | 13 x 82 | RUC.1382 | 4200 |
| 4-7ml | 13 x 106 | RUC.13106 | 4800 |
| 7-9ml | 15 x 92 | RUC.1592 | 4300 |
| 8.5-10ml | 16 x 108 | RUC.16108 | 4800 |

Tube type: Vacuette. Shape: Round

| | | | |
|----------|----------|-----------|------|
| 1.6-5ml | 13 x 82 | RUC.1382 | 4200 |
| 4-7ml | 13 x 106 | RUC.13106 | 4800 |
| 7-9ml | 15 x 92 | RUC.1592 | 4300 |
| 8.5-10ml | 16 x 108 | RUC.16108 | 4800 |



18 Micro rotors to 22,000 Rcf (G)



Supplied with Sealed lid

| Rotor | BRK5424 | BRK5436 | BRK5448 | BRK5494 |
|--------------------------|------------|------------|-------------------|----------------|
| Rotor type | 24 x 2.2ml | 36 x 0.5ml | 48 x 0.2 to 0.4ml | 4 x Pcr Strips |
| Tube size max | 11 x 40mm | 8 x 30mm | 6 x 40mm | 6 x 40mm |
| Minimum Rcf (G) | 10 | 10 | 10 | 10 |
| Maximum Rcf (G) | 22,000 | 22,000 | 22,000 | 22,000 |
| Maximum Rpm | 15,000 | 15,000 | 15,000 | 15,000 |
| Radius max cms | 8.75cms | 8.75cms | 8.75cms | 8.75cms |
| Sample tube angle ° | 45 | 45 | 45 | 45 |
| Acceleration time (secs) | 15 | 15 | 15 | 15 |
| Deceleration time (secs) | 15 | 15 | 15 | 15 |
| Autoclavable (frequency) | 121°C (10) | 121°C (10) | 121°C (10) | 121°C (10) |

Reducers pack of 4

| | |
|----------------------|-------------------|
| 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 |

Reducers pack of 4

| | |
|----------------------|-------------------|
| Rotor | BRK5248.BRK5249 |
| Part number | RS04 (0.2- 0.4ml) |
| Tube size max | 6 x 30mm |
| Part number | RS05 (0.5ml) |
| Tube size max | 8 x 30mm |



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