

PrO-Analytical

a division of

CENTURION
SCIENTIFIC LIMITED

Prime-multi rotor centrifuge range

Centrifuges offering multiple rotors for varying applications



**General Analytical
Laboratories**

Welcome to our latest Centrifuge range

Centrifuges focused on the future

Micro, small, medium, large & floor ambient with additional refrigerated versions.

Improved angled front panel for ease of use.

Improved rotors for safer sample use

Additional rotors, fixed angles, high speed fixed angles, swing out and micro.

Fixed angle rotors are now supplied with sealed lids, for ultimate safety.

Swing out rotors also have new sealed lids to increase their capacity.

Next generation components

- Inverter
- Efficient with added power, improved acceleration/deceleration
- **Tachometer/Imbalance**
- Third generation offering improved user flexibility
- **Lid Lock system**
- Superior lid locks for safety and reliability
- **Control Board**
- Easier rotor selection with additional display
- Bluetooth addition allowing latest software updates
- Timer now. 0-99mins, 2, 3, 4, 5, 6, 7, 8, 9, hours & constant

Ambient model



Refrigerated model



Centurion Scientific Ltd Centrifuges comply to all relevant EU standards of quality and medical devices IEC61010 and CE conformity test marks emission, immunity to EN/IEC 61326-1, Class B

PrO-Analytical 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
Bright blue LED display	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 0-9 Hours & Hold in 30 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	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	Eradicates user loading errors
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?

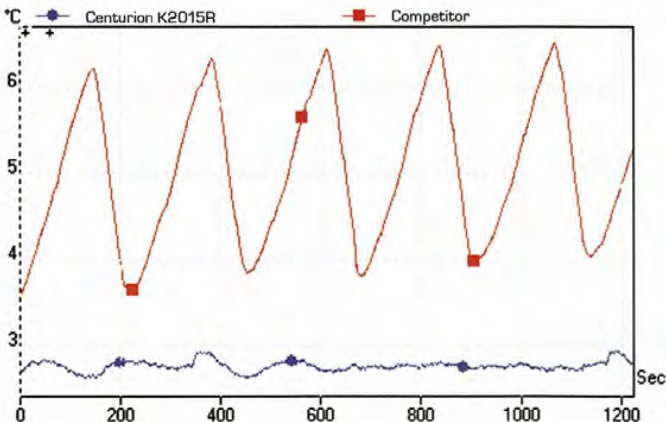
Imagine using a shower, you turn on both hot water and cold to reach your desired temperature. You would not stand in cold water, then hot to regulate temperature. By using both cold and hot we "balance" the set temperature. As we have been using this method for over 27 years it is a proven technology.

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.



Contents

Micro Centrifuges to 0.2L

C1015 Ambient & C1015R. Refrigerated	Selection of rotors available	6
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Micro centrifuges with a small footprint. Speeds up to 15,000 rpm. Micro rotors, PCR Strip rotors, Haematocrit rotors, Fixed angle rotors (with sealed lid) samples up to 50ml, a 8x5ml swing out rotor and a 4 place cytology rotor.

Small Centrifuges to 0.5L

C2000 Ambient & C2000R. Refrigerated	Selection of rotors available	11
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Small centrifuge with sample capacity from 0.2ml - 125ml and everything in between. Offering microtitor, fixed angle and swing out rotor in this small centrifuge + 12 place cytology rotor.

Medium Centrifuges to 1L

C4000 Ambient & C4000R. Refrigerated	Selection of rotors available	20
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Medium centrifuges with speeds up to 15,000rpm offering larger capacity rotors up to 1.0 Litre in a swing out rotor with sealed lids. and fixed angle rotors with sealed lids

Large Centrifuges to 2L

C5000 Ambient & C5000R. Refrigerated	Selection of rotors available	30
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Our 2 litre large capacity centrifuges ideal for these wishing to spin much larger samples offering a refrigerated and non refrigerated version and a trolley to make it portable.

Large Centrifuges to 3L

C7000 Ambient & C7000R. Refrigerated	Selection of rotors available	38
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Large capacity 3 litre centrifuges with trolley in either ambient or refrigerated offering a multitude of rotors including high speed and microtitor.

Floor Centrifuges to 4L

CFS4 Ambient & CFS4R. Refrigerated	Selection of rotors available	47
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Floor standing centrifuges which can be in situ or moved around the laboratory offering superior capacity in swing out rotor up to 4 litre and fixed angle rotors from 0.2 litre to 250ml, and microtitor

C1015 & C1015R

6

Micro Centrifuges to 0.2Litre max Prime multi rotor Centrifuge

Display indicative only



PART NUMBERS

C1015 (230V50/60Hz)

1.C1015 (110V 60Hz)

(Rotor required) see the following pages

Ambient Centrifuge

Speed	15,000 Rpm max (10Rpm steps)
Rcf Max	10 - 22,000G
Timer	0-9 hours & Hold (30 sec steps)
Dims HWD	280 x 240 x 360mm
Weight	12.8 Kg (without rotor)
Power	125 Watts
Memory	99 programs
Accel rates	10 programs
Decel rates	10 programs

Display indicative only



PART NUMBERS

C1015R (230V 50/60Hz)

1.C1015R (110V 60 Hz)

(Rotor required)

see the following pages

Refrigerated Centrifuge

Speed	15,000 Rpm max (10Rpm steps)
Rcf Max	10 - 22,000G
Timer	0-9 hours & Hold (30 sec steps)
Dims HWD	320 x 280 x 575mm
Weight	41.8 Kg (without rotor)
Power	575 Watts
Memory	99 programs
Accel rates	10 programs
Decel rates	10 programs
Temp range	-20C to 40C PID controlled to +/- 1C

Micro rotors to 22,000 Rcf (G)



Sealed lid included

Reducers pack of 4

Rotor	BRK5424, BRK5463, BRK5464
Part number	RS04 (0.2- 0.4ml)
Tube size max	6 x 30mm
Part number	RS05 (0.5ml)
Tube size max	8 x 30mm

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 50mm	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)
Minimum Temperature @ 23°C	4°C	4°C	4°C	4°C

Rotor	BRK5463	BRK5464
Rotor type	36 x 2.2ml	118 x 2.2 & 18 x 0.5ml
Tube size max	11 x 50mm	11 x 50 & 8 x 30mm
Minimum Rcf (G)	10	10
Maximum Rcf (G)	22,000	22,000
Maximum Rpm	15,000	15,000
Radius max cms	8.75cms	8.75cms
Sample tube angle °	45	45
Acceleration time (secs)	15	15
Deceleration time (secs)	15	15
Autoclavable (frequency)	121°C (10)	121°C (10)
Minimum Temperature @ 23°C	4°C	4°C

Small Fixed angle rotors. 3,500 & 6,100 Rcf (G)



Reducers pack of 4

Rotor	BRK5407 / BRK5408 / 5404
Part number	RM05 (5ml)
Tube size max	13 x 80mm
Part number	RM10 (10ml)
Tube size max	16 x 100mm

Reducers pack of 4

Rotor	BRK5404
Part number	RM25 (25ml)
Tube size max	24 x 100mm
Part number	RM15 (15ml)
Tube size max	17 x 100mm

Sealed lid included

Rotor	BRK5407	BRK5408	BRK5404
Rotor type	4 x 15ml & 4 x 10ml	8 x 15ml tube	4 x 50ml tube
Tube size max	17 x 120mm & 13 x 110mm	17 x 120mm	30 x 115mm
Minimum Rcf (G)	10	10	10
Maximum Rcf (G)	6,100	3,500	3,500
Maximum Speed	8,000	6,000	6,000
Radius max cms	8.5	8.5	8.5
Sample tube angle °	30	30	30
Acceleration time (secs)	25	25	25
Deceleration time (secs)	25	25	25
Autoclavable (frequency)	121°C (10)	121°C (10)	121°C (10)
Minimum Temperature @ 23°C	4°C	4°C	4°C

Small Swing out Rotor 1520 Rcf (G)



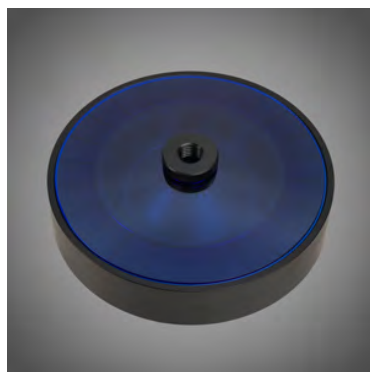
BRK5508S Rotor Buckets supplied (set of 8)

Capacity	8 x 5ml
Tube size	13 x 82mm max
Minimum Rcf (G)	10
Maximum Rcf (G)	1,520
Maximum Speed	4,000
Radius max cms	8.5
Sample tube angle °	0
Acceleration time (secs)	15
Deceleration time (secs)	15
Autoclavable (frequency)	121°C (10)
Minimum Temperature @ 23°C	4°C

Haematocrit & Micro rotor to 15,800 Rcf (G)

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Rotor	BRK5401
Rotor type Tube size max	24 x capillary & 12 x 2ml
Tube size	2 x 75mm & 11 x 40mm
Minimum Rcf (G)	10
Maximum Rcf (G)	15,800
Maximum Rpm	13,000
Radius max cms	8.4
Sample tube angle °	0 & 60
Acceleration time (secs)	25
Deceleration time (secs)	25
Autoclavable (frequency)	121°C (10)
Minimum Temperature @ 23°C	4°C



Consumables

Part Number	Description
8012	Plain capillary tubes pack 10 x 100
8013	Heparinised capillary tubes pack 10 x 100
8014	Sealing clay Pk 10
8011	Rim seal gasket Pk 10 Replace regularly every 2 months

Accessories

Part Number	Description
8003	PCV reader

Cytology rotor to 550Rcf (G)



Lid is in blue

Rotor	4940 (4 Place)
Rotor type	4 x 0.2 to 6ml
Tube size max	Single or double
Minimum Rcf (G)	10
Maximum Rcf (G)	550
Maximum Speed	2,500
Radius max cms	7.9
Sample tube angle °	0
Acceleration time (secs)	20
Deceleration time (secs)	20
Autoclavable (frequency)	121°C (10)
Minimum Temperature @ 23°C	4°C

Cytology rotor includes rotor, sealed lid, clips, 24 holders with filter card & 100 slides

Accessories



4446

Double sample holder with card (up to 1ml)



4444

Single sample holder with card (up to 1ml)



4600

Single sample holder with card (up to 6ml)



4462

Stainless steel clips

Small Centrifuges to 0.5 Litre max Prime Multi Rotor Centrifuges

Display indicative only



PART NUMBERS

C2000 (230V/50/60Hz)

1.C2000 (110V 60Hz)

(Rotor required) see the following pages

Ambient Centrifuge

Speed	15,000 Rpm max (10 Rpm steps)
Rcf Max	10 - 22,000 G
Timer	0-9hours & Hold (30 sec steps)
Dims HWD	320 x 350 x 470mm
Weight	22.8 Kg (without rotor)
Power	175 Watts
Memory	99 programs
Accel rates	10 programs
Decel rates	10 programs

Display indicative only



PART NUMBERS

C2000R (230V 50/60Hz)

1.C2000R (110V 60 Hz)

(Rotor required) see the following pages

Refrigerated Centrifuge

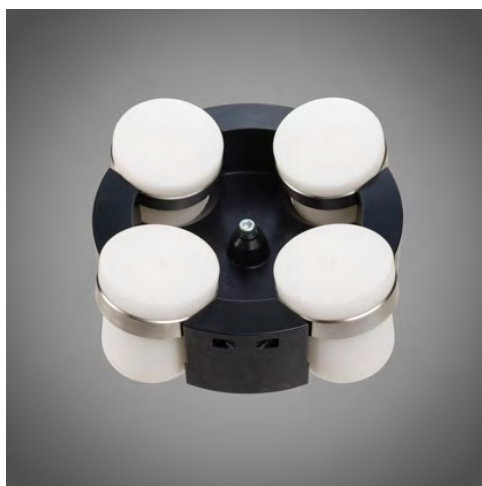
Speed	15,000 Rpm (10 Rpm steps)
Rcf Max	10 - 22,000 G
Timer	0-9hours & Hold (30 sec steps)
Dims HWD	325 x 360 x 610mm
Weight	45.8 Kg (without rotor)
Power	575 Watts
Memory	99 programs
Accel rates	10 programs
Decel rates	10 programs
Temp range	-20C to 40C PID controlled to +/- 1C

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Swing out Rotor 4 x 125ml Max. 2,200 Rcf (G)

BRK5506

500ml max capacity



Optional B5519 sealed lids available see page 38

Adaptors required see following page

Rotor	BRK5506 & Adaptors (set 4) Shown. REQUIRED
Tube size max	45 x 100mm
Minimum Rcf (G)	10
Maximum Rcf (G)	2,200
Maximum Speed	4,000Rpm
Radius max cms	12.3cm
Sample tube angle °	0
Acceleration time (secs)	30
Deceleration time (secs)	30
Autoclavable (frequency)	121°C (20)
Minimum Temperature @ 23°C	4°C

Adaptors for Swing out rotor BRK5506 Pack of 4

13

Capacity **Size. mm** **Part Number** **Tubes per rotor**

Tube type: Micro with cap. Shape: Point

0.5ml	8 x 20	AM405-5	52
1.5ml	11 x 38	AM420-5	36
2.0ml	11 x 38	AM420-5	36
0.2ml	6 x 20	AM402-5	96
0.4ml	6 x 30	AM404-5	96

Tube type: Plain no cap. Shape: Round

1ml	6 x 45	AR401-5	36
3ml	10 x 60	AR403-5	28
5ml	12 x 75	AR405-5	20
6ml	12 x 82	AR405-5	20
7ml	12 x 100	AR407-5	20
9/10ml	14 x 100	AR409-5	20
15ml	17 x 100	AR415-5	16
25ml	24 x 100	AR425-5	12
50ml	34 x 100	AR450-5	4
100ml	45 x 100	AR4100-5	4
125ml	52 x 100	AR4125-5	4

Tube type: Falcon with cap. Shape: Point

15ml	17 x 120	AF415-5	4
50ml	29 x 115	AF450-5	4

Tube type: Falcon with cap. Shape: Square

12ml	17 x 100	AFS412-5	8
15ml	17 x 120	AFS415-5	4
25ml	25 x 90	AFS425-5	4
30ml	25 x 110	AFS430-5	4
50ml	29 x 115	AFS4100-5	4

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

10ml	15 x 80	ANO410-5	12
30ml	26 x 95	ANO430-5	4
50ml	29 x 107	ANO450-5	4
100ml	38 x 106	ANO485-5	R

Tube type: Monovette. Shape Square

1.1-1.4ml	8 x 82	AM4014-5	40
2.7-3ml	11 x 82	AM403-5	40
2.6-2.9ml	13 x 81	AM429-5	28
4.5-5ml	11 x 108	AM403-5	32
7.5-8.2ml	13 x 106	AM479-5	24
4.5-5ml	15 x 92	AM450-5	20
9-10ml	16 X 108	AM490-5	16

Tube type: Vacutainer. Shape: Round

1.6-5ml	13 x 82	AV416-5	24
4-7ml	13 x 106	AV450-5	24
7-9ml	15 x 92	AV470-5	20
8.5-10ml	16 x 108	AV480-5	16

Tube type: Vacuette. Shape: Round

1.6-5ml	13 x 82	AV416-5	24
4-7ml	13 x 106	AV450-5	24
7-9ml	15 x 92	AV470-5	20
8.5-10ml	16 x 108	AV480-5	16



Medium fixed angle rotors to 3,800 Rcf (G)



Sealed lid included

Reducers pack of 4

Rotor	BRK5412
Part number	RM05 (5ml)
Tube size max	13 x 80mm
Part number	RM10 (10ml)
Tube size max	16 x 100mm

Reducers pack of 4

Rotor	BRK5406
Part number	RM15 (15ml)
Tube size max	17 x 120mm
Part number	RM25 (25ml)
Tube size max	25 x 100mm

Rotor	BRK5412	BRK5406
Rotor type	12 x 15ml	6 x 50m
Tube size max	17 x 120mm	30 x 120mm
Minimum Rcf (G)	10	10
Maximum Rcf (G)	3,800	3,800
Maximum Speed	6,000	6,000
Radius max cms	9.5	9.5
Sample tube angle °	30	30
Acceleration time (secs)	25	25
Deceleration time (secs)	25	25
Autoclavable (frequency)	121°C (10)	121°C (10)
Minimum Temperature @ 23°C	4°C	4°C

Small Swing out Rotor 2200 Rcf (G)



BRK5508M Rotor Buckets supplied (set of 8)

Capacity Tube size max	8 x 10ml
Maximum tube size	15 x 115mm max
Minimum Rcf (G)	10
Maximum Rcf (G)	2,200
Maximum Speed	4,000
Radius max cms	12.3
Sample tube angle °	0
Acceleration time (secs)	20
Deceleration time (secs)	20
Autoclavable (frequency)	121°C (10)
Minimum Temperature @ 23°C	4°C

Micro rotors to 22,000 Rcf (G)



Reducers pack of 4

Rotor	BRK5648.BRK5649
Part number	RS04 (0.2- 0.4ml)
Tube size max	6 x 30mm
Part number	RS05 (0.5ml)
Tube size max	8 x 30mm

Sealed lid included

Reducers pack of 4

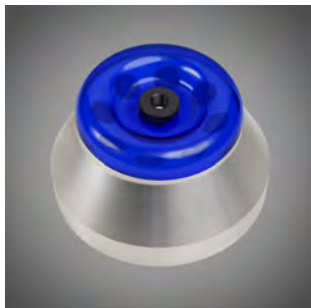
Rotor	BRK5424
Part number	RS04 (0.2- 0.4ml)
Tube size max	6 x 30mm
Part number	RS05 (0.5ml)
Tube size max	8 x 30mm

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 50mm	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)
Minimum Temperature @ 23°C	4°C	4°C	4°C	4°C

Micro rotors High Capacity to 17,800 Rcf (G)

Rotor	BRK5648	BRK5649	BRK5698
Rotor type	48 x 2.2ml	24x2.2 & 24x0.5ml	8 x Pcr Strips
Tube size max	11 x 50mm	11x50 & 6x30mm	6 x 40mm
Minimum Rcf (G)	10	10	10
Maximum Rcf (G)	17,800	17,800	17,800
Maximum Speed	13,000	13,000	13,000
Radius max cms	9.45cms	9.45cms	9.45cms
Sample tube angle °	45	45	30
Acceleration time (secs)	20	20	20
Deceleration time (secs)	20	20	20
Autoclavable (frequency)	121°C (10)	121°C (10)	121°C (10)
Minimum Temperature @ 23°C	4°C	4°C	4°C

16

High speed Fixed angle rotors to
9,500 Rcf (G)

Sealed Lid included

Rotor	BRK5207	BRK5202	BRK5204
Rotor type	4 x 15ml & 4 x 10ml	8 x 15ml tube	4 x 50ml tube
Tube size max	17 x 120mm & 13 x 110mm	17 x 120mm	30 x 115mm
Minimum Rcf (G)	10	10	10
Maximum Rcf (G)	9,500	9,500	9,500
Maximum Speed	10,000	10,000	10,000
Radius max cms	8.5	8.5	8.5
Sample tube angle °	60	60	60
Acceleration time (secs)	180	180	180
Deceleration time (secs)	25	25	25
Autoclavable (frequency)	121°C (10)	121°C (10)	121°C (10)
Minimum Temperature @ 23°C	4°C	4°C	4°C

Reducers pack of 4

Rotor	BRK5207 / BRK5208/5204
Part number	RM05 (5ml)
Tube size max	13 x 80mm
Part number	RM10 (10ml)
Tube size max	16 x 100mm

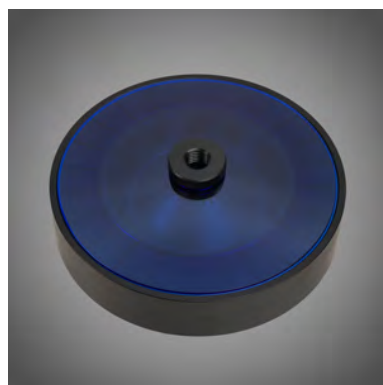
Reducers pack of 4

Rotor	BRK5204
Part number	RM25 (25ml)
Tube size max	24 x 100mm
Part number	RM15 (15ml)
Tube size max	17 x 100mm

Haematocrit & Micro rotor to 15,800 Rcf (G)

17

Rotor	BRK5401
Rotor type Tube size max	24 x capillary & 12 x 2ml
Tube size	2 x 75mm & 11 x 40mm
Minimum Rcf (G)	10
Maximum Rcf (G)	15,800
Maximum Rpm	13,000
Radius max cms	8.4
Sample tube angle °	0 & 60
Acceleration time (secs)	25
Deceleration time (secs)	25
Autoclavable (frequency)	121°C (10)
Minimum Temperature @ 23°C	4°C



Consumables

Part Number	Description
8012	Plain Capillary tubes pack 10 x 100
8013	Heparanised Capillary tubes pack 10 x 100
8014	Sealing Clay Pk 10
8011	Rim seal Gasket Pk 10 Replace regularly every 2 months

Accessories

Part Number	Description
8003	PCV Reader

Microtiter Plate Rotor 4 x Standard or 2 x High Plates



Rotor	BRK5740
Buckets	Complete with buckets Available with 4 x STD Plates
Rotor type Tube size max	85mmx128mm
Minimum Rcf (G)	10
Maximum Rcf (G)	1700
Maximum Rpm	3500
Radius max cms	12.4
Sample tube angle °	0°C (10)
Acceleration time (secs)	25
Deceleration time (secs)	25
Autoclavable (frequency)	121°C (10)
Minimum Temperature @ 23°C	4°C



Cytology rotors to 500Rcf (G)



Rotor	4460 (12 Place)
Rotor type	12 x 0.2 to 6ml
Tube size max	Single or double
Minimum Speed Rpm	200
Maximum Speed Rpm	2,000
Maximum Rcf (G)	500
Radius max cms	11.2
Sample tube angle °	0
Acceleration time (secs)	25
Deceleration time (secs)	25
Autoclavable (frequency)	121°C (10)
Minimum Temperature @ 23°C	4°C

Accessories



4446

Double sample holder with card (up to 1ml)



4444

Single sample holder with card (up to 1ml)



4600

Single sample holder with card (up to 6ml)



4462

Stainless steel clips

C4000 & C4000R

20 Medium Centrifuges to 1.0Litre max Prime Multi Centrifuge

Display indicative only



PART NUMBERS

C4000 (230V50/60Hz) 1.C4000 (110V 60Hz) **(Rotor required)** see the following pages

Ambient Centrifuge

Speed	15,000 Rpm max (10 Rpm steps)
Rcf Max	10 - 24,000 G
Timer	0-9hours & Hold (30 sec steps)
Dims HWD	340 x 400 x 520mm
Weight	25.8 Kg (without rotor)
Power	275 Watts
Memory	99 programs
Accel rates	10 programs
Decel rates	10 programs

Display indicative only



PART NUMBERS

C4000R (230V 50/60Hz)
1.C4000R (110V 60 Hz)

Refrigerated Centrifuge

Speed	15,000 Rpm max (10 Rpm steps)
Rcf Max	10 - 24,000 G
Timer	0-9hours & Hold (30 sec steps)
Dims HWD	330 x 435 x 650mm
Weight	57.8 Kg (without rotor)
Power	625 Watts
Memory	99 programs
Accel rates	10 programs
Decel rates	10 programs
Temp range	-20C to 40C PID controlled to +/- 1C

(Rotor required) see the following pages

Micro rotors to 22,000 Rcf (G)



Sealed lid included

Reducers

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

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 50mm	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)
Minimum Temperature @ 23°C	4°C	4°C	4°C	4°C

Micro rotors High capacity to 24,000 Rcf (G)

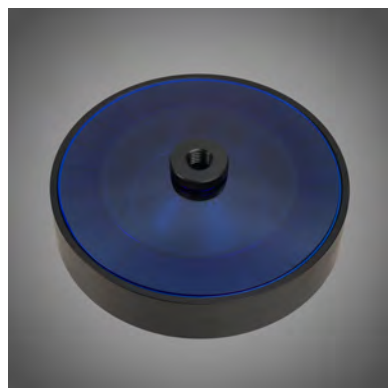


Sealed lid included

Rotor	BRK5248	BRK5249	BRK5298
Rotor type	48 x 2.2ml	24x2.2 & 24x0.5ml	8 x Pcr Strips
Tube size max	11 x 50mm	11x50 & 6x30mm	6 x 40mm
Minimum Rcf (G)	10	10	10
Maximum Rcf (G)	24,000	24,000	24,000
Maximum Speed	15,000	15,000	15,000
Radius max cms	9.45cms	9.45cms	9.45cms
Sample tube angle °	45	45	45
Acceleration time (secs)	30	30	30
Deceleration time (secs)	45	45	45
Autoclavable (frequency)	121°C (10)	121°C (10)	121°C (10)
Minimum Temperature @ 23°C	4°C	4°C	4°C

Haematocrit & Micro rotor to 15,800 Rcf (G)

Rotor	BRK5401
Rotor type Tube size max	24 x capillary & 12 x 2ml
Tube size	2 x 75mm & 11 x 40mm
Minimum Rcf (G)	10
Maximum Rcf (G)	15,800
Maximum Rpm	13,000
Radius max cms	8.4
Sample tube angle °	0 & 60
Acceleration time (secs)	25
Deceleration time (secs)	25
Autoclavable (frequency)	121°C (10)
Minimum Temperature @ 23°C	4°C



Consumables

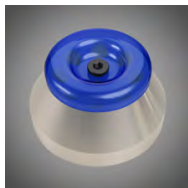
Part Number	Description
8012	Plain Capillary tubes pack 10 x 100
8013	Heparanised Capillary tubes pack 10 x 100
8014	Sealing Clay Pk 10
8011	Rim seal Gasket Pk 10 Replace regularly every 2 months

Accessories

Part Number	Description
8003	PCV Reader

High speed fixed angle rotors to 10,600 Rcf (G)

23



Sealed lid included

Reducers pack of 4

Rotor	BRK5212
Part number	RM05 (5ml)
Tube size max	13 x 80mm
Part number	RM10 (10ml)
Tube size max	16 x 100mm

Reducers pack of 4

Rotor	BRK5206
Part number	RM15 (15ml)
Tube size max	17 x 120mm
Part number	RM25 (25ml)
Tube size max	25 x 100mm

Rotor	BRK5212	BRK5206
Rotor type	12 x 15ml	6 x 50m
Tube size max	17 x 120mm	30 x 120mm
Minimum Rcf (G)	10	10
Maximum Rcf (G)	10,600	10,600
Maximum Speed	10,000	10,000
Radius max cms	9.5	9.5
Sample tube angle °	60	60
Acceleration time (secs)	180	180
Deceleration time (secs)	25	25
Autoclavable (frequency)	121°C (10)	121°C (10)
Minimum Temperature @ 23°C	4°C	4°C

Small Swing out Rotor 2600 Rcf (G)



BRK5508L Rotor Buckets supplied (set of 8)

Capacity	8 x 15ml
Tube size	17 x 125mm max
Minimum Rcf (G)	10
Maximum Rcf (G)	2,600
Maximum Speed	4,000
Radius max cms	14.6
Sample tube angle °	0
Acceleration time (secs)	20
Deceleration time (secs)	20
Autoclavable (frequency)	121°C (10)
Minimum Temperature @ 23°C	4°C

Swing out Rotor 4 x 250ml Max. 24 2,600 Rcf (G)

BRK1001

1 Litre max capacity



B5251 Bucket (set 4) REQUIRED
250ml max per Bucket



Shown with optional B5519 sealed lids

Adaptors required see the following page

Rotor/Buckets	BRK1001. B5251 Buckets
Tube size max	62 x 100mm
Minimum Rcf (G)	10
Maximum Rcf (G)	2,600
Maximum Speed Rpm	4,000
Radius max cms	14.6cm
Sample tube angle °	0
Acceleration time (secs)	25
Deceleration time (secs)	35
Autoclavable (frequency)	121°C (20)
Minimum Temperature @ 23°C	4°C

Adaptors for Swing out rotor BRK1001.
With B5251 buckets Pack of 4

Capacity	Size. mm	Part Number	Tubes per rotor
Tube type: Micro with cap. Shape: Point			
0.5ml	8 x 20	AM605-1	104
1.5ml	11 x 38	AM620-1	72
2.0ml	11 x 38	AM620-1	72
0.2ml	6 x 20	AM602-1	144
0.4ml	6 x 30	AM604-1	144
Tube type: Plain no cap. Shape: Round			
1ml	6 x 45	AR601-1	36
3ml	10 x 60	AR603-1	28
5ml	12 x 75	AR605-1	20
6ml	12 x 82	AR605-1	20
7ml	12 x 100	AR607-1	20
9/10ml	14 x 100	AR609-1	20
15ml	17 x 100	AR615-1	16
25ml	24 x 100	AR625-1	12
50ml	34 x 100	AR650-1	4
100ml	45 x 100	AR6100-1	4
125ml	52 x 100	AR6150-1	4
Tube type: Falcon with cap. Shape: Point			
15ml	17 x 120	AF615-1	16
50ml	29 x 115	AF650-1	4
Tube type: Falcon with cap. Shape: Square			
12ml	17 x 100	AFS612-1	12
15ml	17 x 120	AFS615-1	12
25ml	25 x 90	AFS625-1	4
30ml	25 x 110	AFS630-1	4
50ml	29 x 115	AFS650-1	4
Tube type: Nalgene. Oakridge with cap. Shape: Round			
10ml	15 x 80	ANO610-1	20
30ml	26 x 95	ANO630-1	4
50ml	29 x 107	ANO650-1	4
100ml	38 x 106	ANO6100-1	4
Tube type: Nalgene. Oakridge with cap. Shape: Flat			
250ml	62 x 125	AC62130	4
Tube type: Monovette. Shape Square			
1.1-1.4ml	8 x 82	AM6014-1	52
2.7-3ml	11 x 82	AM603-1	52
2.6-2.9ml	13 x 81	AM629-1	28
4.5-5ml	11 x 108	AM603-1	52
7.5-8.2ml	13 x 106	AM679-1	28
4.5-5ml	15 x 92	AM650-1	20
9-10ml	16 X 108	AM690-1	20
Tube type: Vacutainer. Shape: Round			
1.6-5ml	13 x 82	AV616-1	28
4-7ml	13 x 106	AV650-1	28
7-9ml	15 x 92	AV670-1	16
8.5-10ml	16 x 108	AV680-1	16
Tube type: Vacuette. Shape: Round			
1.6-5ml	13 x 82	AV616-1	28
4-7ml	13 x 106	AV650-1	28
7-9ml	15 x 92	AV670-1	16
8.5-10ml	16 x 108	AV680-1	16



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	38 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 °	35	35	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
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At maximum speed (relative to room temperature at 23°C)

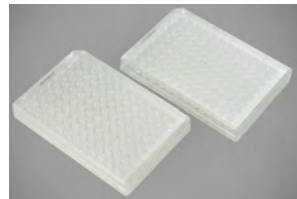
Reducers Pack of 4

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)	RL15 (15ml)
Tube size max	16 x 100mm	25 x 100mm	17 x 120mm
			RL25 (25ml)
			25 x 100mm
			RL50 (50ml)
			35 x 110mm
			RL85 (85ml)
			39 x 110mm

Microtitor Plate Rotor 4 x Standard or 2 x High Plates



Rotor	BRK5540
	Complete with buckets
Rotor type	Available with 4 x STD Plates
Tube size max	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	4460 (12 Place)
Rotor type	12 x 0.2 to 6ml
Tube size max	Single or double
Minimum Speed Rpm	200
Maximum Speed Rpm	2,000
Maximum Rcf (G)	500
Radius max cms	11.2
Sample tube angle °	0
Acceleration time (secs)	25
Deceleration time (secs)	25
Autoclavable (frequency)	121°C (10)
Minimum Temperature @ 23°C	4°C

Accessories



4446

Double sample holder with card (up to 1ml)



4444

Single sample holder with card (up to 1ml)



4600

Single sample holder with card (up to 6ml)



4462

Stainless steel clips

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.

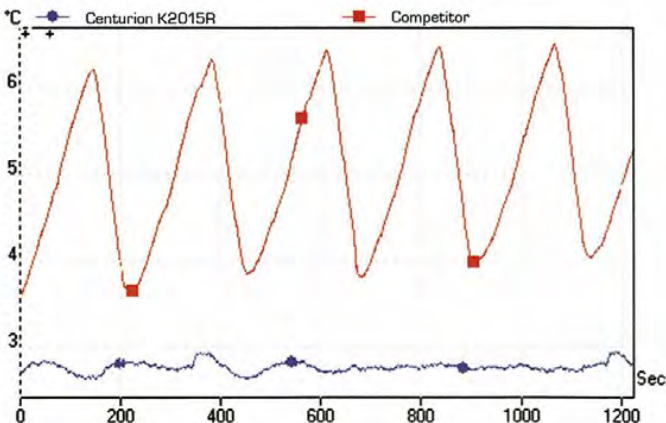
Why?

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.



C5000

Large Centrifuges to 2L

30 Prime multi rotor Centrifuge

Display indicative only



C5000 Large Centrifuge 2L

C5000. (230V 50/60Hz). 1.C5000. (110V 60Hz)

Speed	15,000 Rpm max (10 Rpm steps)
Rcf Max	10 - 24,000 G
Timer	0-9hours & Hold (30 sec steps)
Dims HWD	375 x 540 x 620mm
Weight	54.5 Kg (without rotor)
Power	750 Watts
Memory	99 programs
Accel rates	10 programs
Decel rates	10 programs

Display indicative only



C5000 Large Centrifuge with Trolley

Trolley available

Part number XMFS2

Total height 98 cm

Large Centrifuges to 2L Prime multi rotor Centrifuge

Display indicative only



C5000R Large Centrifuge 2L Refrigerated

C5000R.(230V 50/60Hz). 1.C5000R.(110V 60Hz).

Speed	22,000 Rpm max (10 Rpm steps)
Rcf Max	10 - 24,000 G
Timer	0-9hours & Hold (30 sec steps)
Dims HWD	410 x 825 x 650mm
Weight	87Kg
Power	1200 Watts
Memory	99 programs
Accel rates	10 programs
Decel rates	10 programs
Temp range	-9°C to + 40°C PID Controlled to + / - 1°C



Display indicative only

C5000R Large Centrifuge with Trolley

Trolley available

Part number	XMRF52
Total height	98 cm

Swing out Rotor 4 x 500ml Max. 32 3,600 Rcf (G)

BRK3000

2 Litre max capacity



B2001 Bucket (set 4) REQUIRED.
500ml max per Bucket |



Shown with optional B5319 sealed lids

Adaptors required see following page

Rotor/Buckets	BRK3000, B2001 Buckets
Tube size max	98 x 160mm
Minimum Rcf (G)	10
Maximum speed	4000Rpm
Maximum Rcf (G)	3600
Radius max cms	20.5
Sample tube angle °	0
Acceleration time (secs)	40
Deceleration time (secs)	40
Autoclavable (frequency)	121°C (20)
Minimum Temperature @ 23°C	4°C

Adaptors for Buckets. B2001 Pack of 4

Capacity **Size. mm** **Part Number** **Tubes per rotor**

Tube type: Micro with cap. Shape: Point

0.5ml	8 x 20	AM805-2	144
1.5ml	11 x 38	AM820-2	92
2.0ml	11 x 38	AM820-2	92
0.2ml	6 x 20	AM802-2	168
0.4ml	6 x 30	AM804-2	168

Tube type: Plain no cap. Shape: Round

1ml	6 x 45	AR801-2	168
3ml	10 x 60	AR803-2	96
5ml	12 x 75	AR805-2	96
6ml	12 x 82	AR805-2	96
7ml	12 x 100	AR807-2	96
9/10ml	14 x 100	AR809-2	84
15ml	17 x 100	AR815-2	48
25ml	24 x 100	AR825-2	28
50ml	34 x 100	AR850-2	16
100ml	45 x 100	AR8100-2	8
150ml	52 x 100	AR8150-2	4
250ml	62 x 100	AR8250-2	4



Tube type: Falcon with cap. Shape: Point

15ml	17 x 120	AF815-2	28
50ml	29 x 115	AF850-2	16
175ml	61 x 118	AF8175-2	4

Tube type: Falcon with cap. Shape: Square

12ml	17 x 100	AFS812-2	48
15ml	17 x 120	AFS815-2	28
25ml	25 x 90	AFS825-2	20
30ml	25 x 110	AFS830-2	16
50ml	29 x 115	AFS850-2	12



Tube type: Corning with cap. Shape: point

250ml	60 x 172	AF8250-2	4
500ml	98 x 148	AF8500-2	4

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

10ml	15 x 80	ANO810-2	64
30ml	26 x 95	ANO830-2	20
50ml	29 x 107	ANO850-2	12
100ml	38 x 106	ANO8100-2	12
250ml	62 x 133	ANO8250-2	4

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

250ml	62 x 130	ANO8252-2	4
500ml	98 x 148	AH2695R	4 No lid

Tube type: Monovette. Shape Square

1.1-1.4ml	8 x 82	AM8014-2	96
2.7-3ml	11 x 82	AM803-2	76
2.6-2.9ml	13 x 81	AM829-2	68
4.5-5ml	11 x 108	AM804-2	76
7.5-8.2ml	13 x 106	AM879-2	68
4.5-5ml	15 x 92	AM850-2	64
9-10ml	16 X 108	AM890-2	64

Tube type: Vacutainer. Shape: Round also Vacuette

1.6-5ml	13 x 82	AV816-2	76
4-7ml	13 x 106	AV850-2	76
7-9ml	15 x 92	AV870-2	64
8.5-10ml	16 x 108	AV880-2	64

34 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



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

Reducers pack of 4

Rotor	BRK5224	BRK5208	BRK5210
Part number	RM05 (5ml)	RM15 (15ml)	RL10 (10ml)
Tube size max	13 x 80mm	17 x 120mm	16 x 100mm
Part number	RM10 (10ml)	RM25 (25ml)	RL15 (15ml)
Tube size max	16 x 100mm	25 x 100mm	17 x 120mm
			RL25 (25ml)
			25 x 100mm
			RL50 (50ml)
			35 x 110mm
			RL85 (85ml)
			39 x 110mm

36 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 pack of 4

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)	RL15 (15ml)
Tube size max	16 x 100mm	25 x 100mm	17 x 120mm
			RL25 (25ml)
			25 x 100mm
			RL50 (50ml)
			35 x 110mm
			RL85 (85ml)
			39 x 110mm

Micro rotors to 22,000 Rcf (G)



All Supplied with Sealed lid

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

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 50mm	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)
Minimum Temperature @ 23°C	4°C	4°C	4°C	4°C

Micro rotors High capacity to 24,000 Rcf (G)



Rotor	BRK5248	BRK5249	BRK5298
Rotor type	48 x 2.2ml	24x2.2 & 24x0.5ml	8 x Pcr Strips
Tube size max	11 x 50mm	11x50 & 6x30mm	6 x 40mm
Minimum Rcf (G)	10	10	10
Maximum Rcf (G)	24,000	24,000	24,000
Maximum Speed	15,000	15,000	15,000
Radius max cms	9.54cms	9.54cms	9.54cms
Sample tube angle °	45	45	45
Acceleration time (secs)	30	30	30
Deceleration time (secs)	45	45	45
Autoclavable (frequency)	121°C (10)	121°C (10)	121°C (10)
Minimum Temperature @ 23°C	4°C	4°C	4°C

C7000

38 Large Centrifuges to 3L max Prime multi rotor Centrifuge

Display indicative only



C7000 Large Centrifuge 3L

C7000. (230V 50/60Hz). 1.C7000. (110V 60Hz)

Speed	15,000 Rpm max (10 Rpm steps)
Rcf Max	10 - 24,000 G
Timer	0-9hours & Hold (30 sec steps)
Dims HWD	375 x 570 x 660mm
Weight	59 Kg (without rotor)
Power	750 Watts
Memory	99 programs
Accel rates	10 programs
Decel rates	10 programs

Display indicative only



C7000 Large Centrifuge with Trolley

Trolley available

Part number	XMFS3
Total height	98 cm

Large Centrifuges to 3L max Prime multi rotor Centrifuge

Display indicative only



C7000R Large Centrifuge 3L Refrigerated

C7000R.(230V 50/60Hz). 1.C7000R.(110V60Hz).

Speed	22,000 Rpm max(10 Rpm steps)
Rcf Max	10 - 24,000 G
Timer	0-9hours & Hold (30 sec steps)
Dims HWD	410 x 845 x 660mm
Weight	105Kg (without rotor)
Power	1200 Watts
Memory	99 programs
Accel rates	10 programs
Decel rates	10 programs
Temp range	-9C to 40C PID controlled to +/- 1C



C7000R Large Centrifuge with Trolley

Trolley available

Part number XMRF53

Total height 98 cm

40 Swing out Rotor 4 x 750ml Max. 4,000 Rcf (G)

BRK3000

3 Litre max capacity



B3001 Bucket (set 4) REQUIRED.
750ml max per Bucket



Shown with optional B5319 sealed lids

Adaptors required see following page

Rotor/Buckets	BRK3000. B3001 Buckets
Tube size max	98 x 170mm
Minimum Rcf (G)	10
Maximum speed	4000Rpm
Maximum Rcf (G)	4000
Radius max cms	22.5
Sample tube angle °	0
Acceleration time (secs)	40
Deceleration time (secs)	40
Autoclavable (frequency)	121°C (20)
Minimum Temperature @ 23°C	4°C

Adaptors for Buckets. B3001 Pack of 4

Capacity	Size. mm	Part Number	Tubes per rotor
Tube type: Micro with cap. Shape: Point			
0.5ml	8 x 20	AM805-3	288
1.5ml	11 x 38	AM820-3	184
2.0ml	11 x 38	AM820-3	184
0.2ml	6 x 20	AM802-3	336
0.4ml	6 x 30	AM804-3	336
Tube type: Plain no cap. Shape: Round			
1ml	6 x 45	AR801-3	168
3ml	10 x 60	AR803-3	96
5ml	12 x 75	AR805-3	96
6ml	12 x 82	AR805-3	96
7ml	12 x 100	AR807-3	96
9/10ml	14 x 100	AR809-3	84
15ml	17 x 100	AR815-3	48
25ml	24 x 100	AR825-3	28
50ml	34 x 100	AR850-3	16
100ml	45 x 100	AR8100-3	8
150ml	52 x 100	AR8150-3	4
250ml	62 x 100	AR8250-3	4
Tube type: Falcon with cap. Shape: Point			
15ml	17 x 120	AF815-3	36
50ml	29 x 115	AF850-3	20
125ml	61 x 118	AF8175-3	4
Tube type: Falcon with cap. Shape: Square			
12ml	17 x 100	AFS812-3	48
15ml	17 x 120	AFS815-3	36
25ml	25 x 90	AFS825-3	24
30ml	25 x 110	AFS830-3	24
50ml	29 x 115	AFS850-3	20
Tube type: Corning with cap. Shape: point			
250ml	60 x 172	AF8250-3	4
500ml	98 x 148	AF8500-3	4
Tube type: Nalgene. Oakridge with cap. Shape: Round			
10ml	15 x 80	ANO810-3	64
30ml	26 x 95	ANO830-3	24
50ml	29 x 107	ANO850-3	20
100ml	38 x 106	ANO8100-3	12
250ml	62 x 133	ANO8250-3	4
Tube type: Nalgene. Oakridge with cap. Shape: Square			
250ml	60 x 172	ANO8252-3	4
500ml	98 x 148	ANO8500-3	4
750ml	60 x 160	ANO8750-3	4 No lid
Tube type: Monovette. Shape Square			
1.1-1.4ml	8 x 82	AM8014-3	112
2.7-3ml	11 x 82	AM803-3	76
2.6-2.9ml	13 x 81	AM829-3	76
4.5-5ml	11 x 108	AM804-3	76
7.5-8.2ml	13 x 106	AM879-3	76
4.5-5ml	15 x 92	AM850-3	64
9-10ml	16 X 108	AM890-3	64
Tube type: Vacutainer. Shape: Round also Vacuette			
1.6-5ml	13 x 82	AV816-3	76
4-7ml	13 x 106	AV850-3	76
7-9ml	15 x 92	AV870-3	64
8.5-10ml	16 x 108	AV880-3	64



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 85mm x 128mm
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



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

Reducers pack of 4

Rotor	BRK5224	BRK5208	BRK5210
Part number	RM05 (5ml)	RM15 (15ml)	RL10 (10ml)
Tube size max	13 x 80mm	17 x 120mm	16 x 100mm
Part number	RM10 (10ml)	RM25 (25ml)	RL15 (15ml)
Tube size max	16 x 100mm	25 x 100mm	17 x 120mm
			RL25 (25ml)
			25 x 100mm
			RL50 (50ml)
			35 x 110mm
			RL85 (85ml)
			39 x 110mm

Rotor Details

Rotors 16,100 Rcf (G)



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	

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	38 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 pack of 4

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)	RL15 (15ml)
Tube size max	16 x 100mm	25 x 100mm	17 x 120mm)
			RL25 (25ml)
			25 x 100mm
			RL50 (50ml)
			35 x 110mm
			RL85 (85ml)
			39 x 110mm

Micro rotors to 22,000 Rcf (G)



All Supplied with Sealed lid

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

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 50mm	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)
Minimum Temperature @ 23°C	4°C	4°C	4°C	4°C

Micro rotors High capacity to 24,000 Rcf (G)



Rotor	BRK5248	BRK5249	BRK5298
Rotor type	48 x 2.2ml	24x2.2 & 24x0.5ml	8 x Pcr Strips
Tube size max	11 x 50mm	11x50 & 6x30mm	6 x 40mm
Minimum Rcf (G)	10	10	10
Maximum Rcf (G)	24,000	24,000	24,000
Maximum Speed	15,000	15,000	15,000
Radius max cms	9.54cms	9.54cms	9.54cms
Sample tube angle °	45	45	45
Acceleration time (secs)	30	30	30
Deceleration time (secs)	45	45	45
Autoclavable (frequency)	121°C (10)	121°C (10)	121°C (10)
Minimum Temperature @ 23°C	4°C	4°C	4°C

Floor Centrifuges to 4Litre max Prime multi rotor Centrifuges

CFS4/R Floor Standing Centrifuge (4L Max)



Display indicative only

CFS4 Ambient

CFS4.(230V 50/60Hz). 1.CFS4.(110V 60Hz)

Speed	15,000 Rpm max(10 Rpm steps)
Rcf Max	10 - 24,000 G
Timer	0-9hours & Hold (30 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

CFS4R Refrigerated

CFS4R.(230V 50/60Hz). 1.CFS4R.(110V 60Hz).

Speed	15,000 Rpm max(10 Rpm steps)
Rcf Max	10 - 24,000 G
Timer	0-9hours & Hold (30 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	-9°C to + 40°C PID Controlled to + / - 1°C

The following pages show available rotors.

Rotor Details

Rotors 16,100 Rcf (G)



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	

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 85mm x 128mm
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



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	AR805-4	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	36
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	ANO8500-4	4
750ml	60 x 160	ANO8750-4	4
1000ml	98 x 170	AS98148S	4
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	AM804-4	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



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

Reducers pack of 4

Rotor	BRK5224	BRK5208	BRK5210
Part number	RM05 (5ml)	RM15 (15ml)	RL10 (10ml)
Tube size max	13 x 80mm	17 x 120mm	16 x 100mm
Part number	RM10 (10ml)	RM25 (25ml)	RL15 (15ml)
Tube size max	16 x 100mm	25 x 100mm	17 x 120mm
			RL25 (25ml)
			25 x 100mm
			RL50 (50ml)
			35 x 110mm
			RL85 (85ml)
			39 x 110mm

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	38 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
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At maximum speed (relative to room temperature at 23°C)

Reducers pack of 4

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)	RL15 (15ml)
Tube size max	16 x 100mm	25 x 100mm	17 x 120mm
			RL25 (25ml)
			25 x 100mm
			RL50 (50ml)
			RL85 (85ml)
			35 x 110mm
			39 x 110mm

Micro rotors to 22,000 Rcf (G)



All Supplied with Sealed lid

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

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 50mm	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)
Minimum Temperature @ 23°C	4°C	4°C	4°C	4°C

Micro rotors High capacity to 24,000 Rcf (G)



Rotor	BRK5248	BRK5249	BRK5298
Rotor type	48 x 2.2ml	24x2.2 & 24x0.5ml	8 x Pcr Strips
Tube size max	11 x 50mm	11x50 & 6x30mm	6 x 40mm
Minimum Rcf (G)	10	10	10
Maximum Rcf (G)	24,000	24,000	24,000
Maximum Speed	15,000	15,000	15,000
Radius max cms	9.54cms	9.54cms	9.54cms
Sample tube angle °	45	45	45
Acceleration time (secs)	30	30	30
Deceleration time (secs)	45	45	45
Autoclavable (frequency)	121°C (10)	121°C (10)	121°C (10)
Minimum Temperature @ 23°C	4°C	4°C	4°C

Why Does my Centrifuge and accessories need servicing?

A yearly service validates your warranty. As with every appliance you purchase servicing extends the lifetime of the product and negates the need for constant replacement. Which in turn equals money saving.

We appreciate how hard your Centrifuge is used and how it is an imperative tool for your laboratory.

Downtime is therefore not acceptable

However if it is regularly maintained you improve its reliability and extend its life Our Pro-Care parts offer you all that is needed to service our Centrifuges correctly. Full instructions on replacement and any necessary adjustments are included

Using a third party service company without training and the correct parts is not acceptable. All our distributors, for products sold outside of the UK have received training and authority to service our centrifuges.

NOTE

Centrifuges can be dangerous.

Although Centurion Scientific Ltd has an exceptional reputation , if a rotor lid or poor seals are not replaced regularly, breakage, can result in severe damage further.

Servicing of our Centrifuges are also a requirement to validate your warranty, authorised distributors and Centurion Scientific Ltd parts are to be used.

Please be sure to contact the sales team for full parts pricing and further information .

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Email: sales@centurionscientific.co.uk

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