

# C4000 & C4000R

## 20 Medium Centrifuges to 1.0 Litre max Prime Multi Centrifuge

Display indicative only



### PART NUMBERS

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

### Ambient Centrifuge

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

Display indicative only



### PART NUMBERS

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

### Refrigerated Centrifuge

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

**(Rotor required)** see the following pages

# Micro rotors to 22,000 Rcf (G)



Sealed lid included

## Reducers

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

## Reducers pack of 4

<b>Rotor</b>	BRK5248.BRK5249
<b>Part number</b>	RS04 (0.2- 0.4ml)
<b>Tube size max</b>	6 x 30mm
<b>Part number</b>	RS05 (0.5ml)
<b>Tube size max</b>	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)

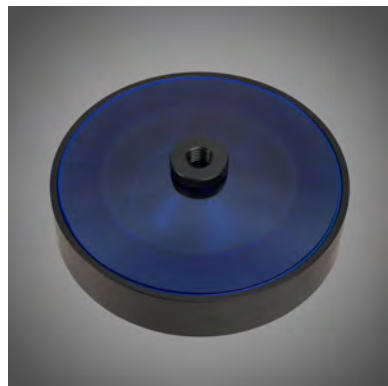


Sealed lid included

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

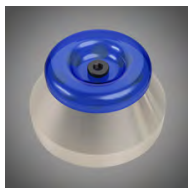
Part Number	Description
8012	Plain Capillary tubes pack 10 x 100
8013	Heparanised Capillary tubes pack 10 x 100
8014	Sealing Clay Pk 10
8011	Rim seal Gasket Pk 10 <a href="#">Replace regularly every 2 months</a>

## Accessories

Part Number	Description
8003	PCV Reader

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

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Sealed lid included

## Reducers pack of 4

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

## Reducers pack of 4

<b>Rotor</b>	BRK5206
<b>Part number</b>	RM15 (15ml)
<b>Tube size max</b>	17 x 120mm
<b>Part number</b>	RM25 (25ml)
<b>Tube size max</b>	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
<b>Tube type: Micro with cap. Shape: Point</b>			
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
<b>Tube type: Plain no cap. Shape: Round</b>			
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
<b>Tube type: Falcon with cap. Shape: Point</b>			
15ml	17 x 120	AF615-1	16
50ml	29 x 115	AF650-1	4
<b>Tube type: Falcon with cap. Shape: Square</b>			
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
<b>Tube type: Nalgene. Oakridge with cap. Shape: Round</b>			
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
<b>Tube type: Nalgene. Oakridge with cap. Shape: Flat</b>			
250ml	62 x 125	AC62130	4
<b>Tube type: Monovette. Shape Square</b>			
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
<b>Tube type: Vacutainer. Shape: Round</b>			
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
<b>Tube type: Vacuette. Shape: Round</b>			
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



# 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

# 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

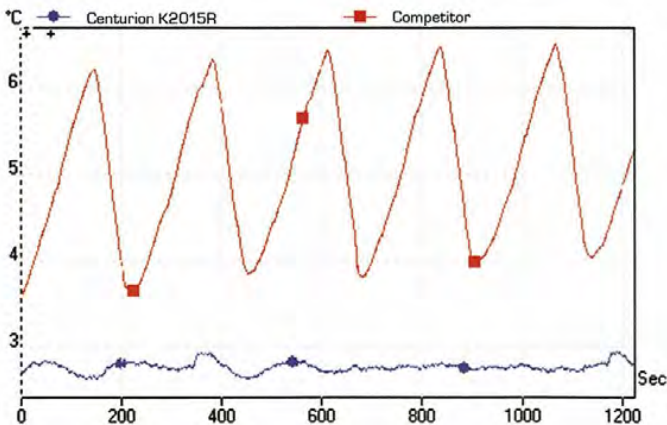
As we have been using this method for over 27 years it is a proven technology.

### 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.





# WolfLabs

**Pricing on any accessories shown can be found by keying the part number into the search box on our website.**

The specifications listed in this brochure are subject to change by the manufacturer and therefore cannot be guaranteed to be correct. If there are aspects of the specification that must be guaranteed, please provide these to our sales team so that details can be confirmed.

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Please contact us if this literature doesn't answer all your questions.