

# Pro Analytical Centrifuge Range

Clinical, Laboratory & Research Applications



# Introducing Hawksley & Sons

Continuing the proud legacy of British centrifuge manufacturing, Hawksley is now the official manufacturer of Centurion Scientific centrifuges.

Founded in 1869, Hawksley has supplied British laboratories with trusted medical equipment and consumables for over 150 years. In an industry dominated by multinational corporations, we are proud to remain a small, independent business - committed to craftsmanship, service, and long-term reliability.

Across seven generations, Hawksley & Sons has pioneered new technologies, contributed to global medical device innovation, and supported scientists, surgeons, and medical professionals around the world. Our mission is simple and enduring: to deliver quality, reliability, and innovation across our three core specialisms - centrifugation, andrology & fertility, and laboratory glassware and counting chambers.

We have been manufacturing centrifuges since the 1950s, with iconic models such as the Haematospin 1400 and the Vetspin Duo remaining widely used and trusted today. With more than 80 years of centrifugation expertise passed down through generations, we are excited to carry forward - and elevate - the Centurion name.





# Welcome to the Pro Analytical Range

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CE marked and ISO 9001 regulated

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

The Pro-Analytical range is a collection of sleek and durable centrifuges that fit into any laboratory or clinical setting. These machines are made with premium components and are constructed to the highest standard, all from our UK manufacturing facility. All Centurion centrifuges come with a 2-year warranty.

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.

User features	Advantages
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 increments	Accuracy
Orientation acceleration rate	Prevents initial sample side deposits
Sound < 60db (rotor dependent)	Quiet

Standard Features	Advantages
Extra thick stainless steel bowl	Easy clean & rust free
Port to lid	Tachometer speed certification
Aluminium sides & Steel Barrier ring	Strong, light & quiet
World leading industrial grade inverter	Reliability & strength
Best quality European brushless motor	Quiet, cool & reliable
High technology airflow	Cooler running



CE marked and ISO 9001

Centurion Scientific centrifuges are engineered to meet the highest safety standards. Each unit incorporates critical features such as a double-lid locking system and automatic imbalance detection, ensuring reliable performance and consistent sample integrity across every use.

Safety Features	Advantages
Multi point lid locking	Lid safety
Emergency lid release	Power failure release
Lid spring strut	Lid dropping safety
Imbalance detection	To run, lid must be shut
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

## Key Features



High stability with RCF and RPM



Digital Display & LCD



Long-lasting and maintenance-free with brushless motor technology



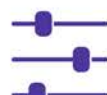
Rotor versatility for any program



Quiet run (under 60db)



Always safe with imbalance detection



10 RPM/RCF precision



Orientation acceleration rate



Multi point lid locking



99 program memory



CE marked and ISO 9001

## LED vs LCD Screens

Centurion centrifuges are available with two display options, LED and LCD, allowing you to choose the interface that best suits your laboratory needs.

### LED Screen

The LED displays provide a bright, high-contrast readout for quick and clear visibility of essential operating parameters. They offer simple, reliable control of speed, time, and temperature, with low power consumption and long-term durability. This makes the LED option ideal for routine, everyday centrifugation tasks.



### LCD Screen

The LCD option features a modern touchscreen interface, offering intuitive navigation and the ability to view multiple parameters at once. This display includes additional functionality, allowing more precise control based on relative centrifugal force over time. With a wide viewing angle and responsive touch operation, the LCD screen is well suited to applications requiring higher accuracy, flexibility, and more advanced programming. See overleaf for further information.



## LCD Touchscreen Features

$\omega^2t$  (W2t) Centrifugation.

The term  $\omega^2t$  (W2t) centrifugation refers to the use of a built-in integrator in a centrifuge that calculates the accumulated centrifugal effect during a run, allowing for highly reproducible separations across different machines or runs. This method is standard in ultracentrifuges and available in some high-end research centrifuges.

### Understanding the Concept

- $\omega$  (omega) represents the angular velocity (rotor speed in radians per second), and  $t$  represents the run time.
- The  $\omega^2t$  integrator calculates the integral of the squared rotor speed over time, resulting in a single value representing the total centrifugal force applied to the sample.
- This is a significant advantage because it allows the run time to be automatically adjusted to compensate for any variations in rotor speed, ensuring the sample receives the exact same separation force in every run, even if the centrifuge takes slightly longer to reach speed or experiences minor fluctuations.
- The units of  $\omega^2t$  are typically radians squared per second ( $\text{rad}^2/\text{s}$ ), and the values are large, often in the order of millions or billions, displayed in exponential notation.

### Use in Research and Industry

W2t control is a valuable feature, particularly in sensitive research, pharmaceutical, and clinical applications where precise and consistent results are paramount. While many standard centrifuges operate using user-defined speed (RPM or RCF/G-force) and time, W2t control offers superior reliability for achieving identical pelleting or separation results time after time.

Centurion's LCD centrifuges utilise this methodology, naming it RCf<sub>t</sub>.

RCf<sub>t</sub> displayed on  
touchscreen



## Refrigerated Models - Guaranteed Control

Accurate cooling using less power.

Alongside our ambient models, Centurion offers an extensive range of refrigerated centrifuges, designed to deliver optimal temperature control. Each unit provides a PID controlled temperature range of  $-10\text{ }^{\circ}\text{C}$  to  $40\text{ }^{\circ}\text{C}$ , accurate to  $\pm 1\text{ }^{\circ}\text{C}$ , ensuring exceptional stability and superior control compared with alternative systems.

### How?

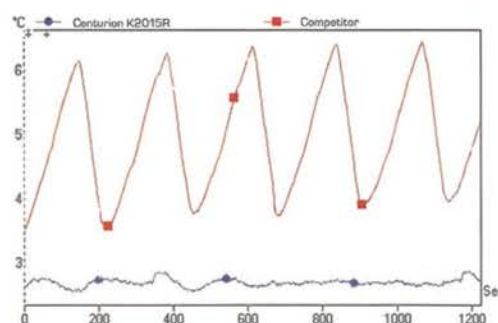
Centurion Scientific keep the compressor running constantly, a unique method which increases compressor life and drastically reduces power use. Constantly turning a compressor on and off causes unequal power surges, and results in poor temperature control.

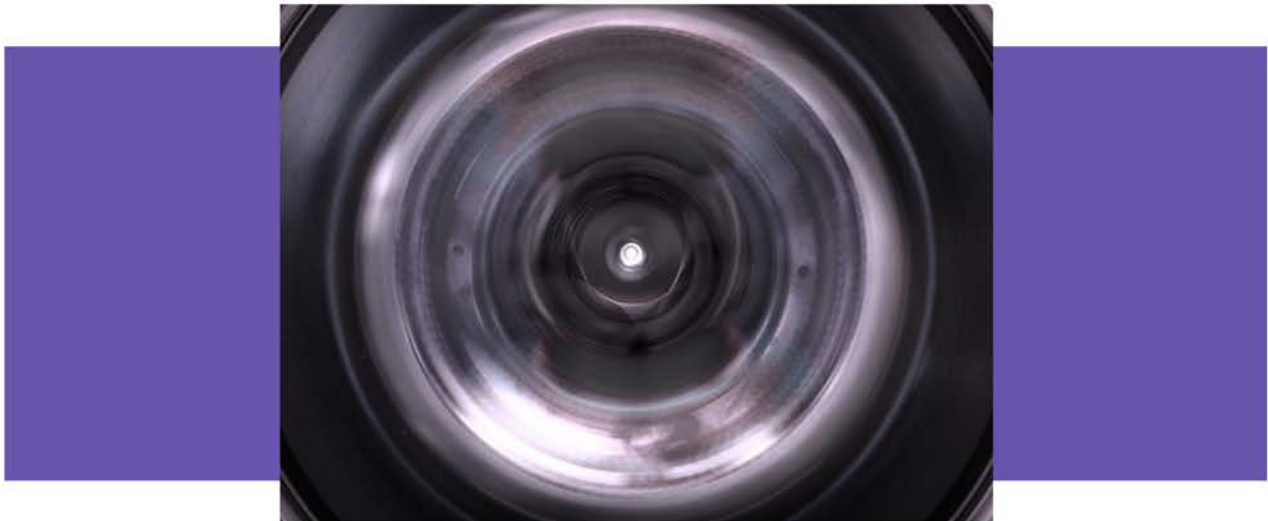
### Why?

When taking a shower, you wouldn't stand in cold water, and then hot water to regulate the temperature. Instead, you use both hot and cold to get the right temperature. We apply this theory to refrigerated centrifugation. By using both hot and cold simultaneously, we easily 'balance' the set temperature.

### Pro

The graph here displays the differences between two compressor types. Centurion is set at  $3^{\circ}\text{C}$  and the competitor at  $4^{\circ}\text{C}$  to differentiate between the data. As you can clearly see, our system has a much higher degree of control and consistency than the other.





## Servicing & Centrifuge Care

Why does my centrifuge need servicing?

A yearly service validates your warranty. As with any appliance you purchase, servicing extends the lifetime of the product and negates the need for constant replacements, which in turn saves you money.

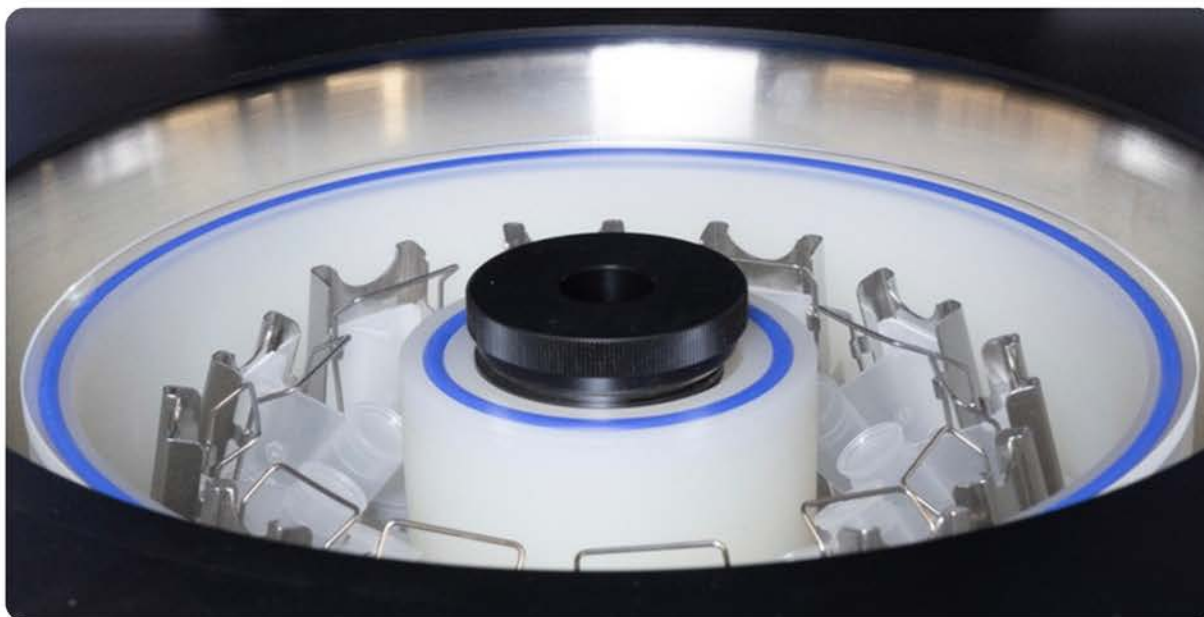
We appreciate that a centrifuge is an essential component of a laboratory, and that downtime is therefore not acceptable. However, if it is regularly maintained, you extend its life significantly.

For products sold outside of the UK, all our distributors have received training and authority to service our centrifuges. Centrifuges can be dangerous. Although Centurion Scientific manufacture exceptionally safe machines, if a rotor lid or seals are not replaced regularly, this can lead to breakage and severe damage further down the line. Servicing of our Centrifuges is also a requirement to validate your warranty with authorised distributors and Centurion to be used only.

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

[Service & Support Page](#)

## Cytology & Other Rotor Options



Centurion Scientific also offer a separate comprehensive range of other centrifuges and rotors designed for specialist applications - including Cytology - ensuring consistent, high-quality results across diverse laboratory environments.

### Cytology Features

- Specialist 4, 6 and 8-place cytology rotors
- Available in Micro and Small sizes
- 10–530 RCF in 10-step increments
- Range of sample holder accessories
- Starter pack included with purchase
- World leading industrial grade inverter



### Centurion Series Available

Discover the complete range of Centurion centrifuges on our website, where you'll find every series presented including technical specifications and rotor options. For dedicated Cytology products, including specialist rotors, sample holders, and starter packs, please visit the link below:

[Cytology Centrifuges](#)

# Welcome to the Micro Centrifuge Range

Micro Centrifuges	12-13
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## LED MICRO CENTRIFUGES TO 0.2 LITRE MAX

The Micro Centrifuges are an excellent choice when you need a compact, high-quality, versatile, and space-saving centrifuge. Rotors are purchased separately, providing flexibility to accommodate a wide range of sample sizes.



### Micro LED Ambient Centrifuge

RPM	15,000 RPM Max (10 RPM steps)
RCF	10 - 22,000
Max Timer	0-9 hours & Hold (30 sec steps)
Dims (WxDxH)	254 x 371 x 290mm
Weight	16 Kg (without rotor)
Power	125 Watts
Memory	99 programs
Accel Rates	10 programs
Decel Rates	10 programs

#### PART NUMBERS Ambient LED Model

C-MICRO 230V 50/60Hz (previously C1015)  
 C-1.MICRO 110V 50/60Hz (previously 1.C015)  
 Alternative plug types available.



### Micro LED Refrigerated Centrifuge

RPM	15,000 RPM max (10 RPM steps)
RCF	10-22,000
Max Timer	0-9 hours & Hold (30 sec steps)
Dims (WxDxH)	305 x 640 x 312mm
Weight	40 Kg (without rotor)
Power	575 Watts
Memory	99 programs
Accel Rates	10 programs
Decel Rates	10 programs
Temp Range	-10°C to 40°C PID controlled to +/- 1C

#### PART NUMBERS Refrigerated LED Model

C-MICRO.R 230V 50/60Hz (previously C1015R)  
 C-1.MICRO.R 110V 60Hz (previously 1.C015R)  
 Alternative plug types available.

## LCD MICRO CENTRIFUGES TO 0.2 LITRE MAX

Centurion also offers a touch screen LCD screen with W2t control for sensitive research applications. Rotors are purchased separately, providing full flexibility to accommodate a wide range of sample sizes.



### Micro LCD Ambient Centrifuge

RPM	15,000 RPM Max (10 RPM steps)
RCF	10 - 22,000
Max Timer	0-9 hours & Hold (1 sec steps)
Dims (WxDxH)	254 x 371 x 290mm
Weight	16 Kg (without rotor)
Power	125 Watts
Memory	99 programs
Accel Rates	10 programs
Decel Rates	10 programs

#### PART NUMBERS Ambient LCD Model

C-MICRO-LCD 230V 50/60Hz (previously K1015)

C-1.MICRO-LCD 110V 50/60Hz (previously 1.K015)

Alternative plug types available.



### Micro LCD Refrigerated Centrifuge

RPM	15,000 RPM max (10 RPM steps)
RCF	10-22,000
Max Timer	0-9 hours & Hold (30 sec steps)
Dims (WxDxH)	305 x 640 x 312mm
Weight	40 Kg (without rotor)
Power	575 Watts
Memory	99 programs
Accel Rates	10 programs
Decel Rates	10 programs
Temp Range	-10°C to 40°C PID controlled to +/- 1C

#### PART NUMBERS Refrigerated LCD Model

C-MICRO.R-LCD 230V 50/60Hz (previously K1015R)

C-1.MICRO.R-LCD 110V 60Hz (previously 1.K015R)

Alternative plug types available.

## MICROTUBE ROTORS

The Microtube Rotors are designed for the centrifugation of smaller sample sizes ranging from 0.5 ml to 2 ml, including PCR strips. They offer a maximum speed of 22,000 RCF, programmable in 10 RCF increments for precise control.



C-R-FA5424 with included sealed lid.



C-R-FA5424 without included sealed lid.

Rotor	C-R-FA5424	C-R-FA5436	C-R-FA5448	C-R-FA5494
Rotor Type	24 x 2.0ml	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
RCF Range	10-22,000	10-22,000	10-22,000	10-22,000
Maximum RPM	15,000	15,000	15,000	15,000
Max Radius (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
Min. Temp. @ Max Speed	4°C	4°C	4°C	4°C
Reducers Available	RS04, RS05	RS04, RS05	N/A	N/A
Sealed Lid Included?	Yes	Yes	Yes	Yes
Spare Lid Part No.	C-RL-1440	C-RL-1440	C-RL-1440	C-RL-1440
Autoclavable (frequency)	121°C (10)	121°C (10)	121°C (10)	121°C (10)

Reducers - Pack of 4	C-RC-RS04	C-RC-RS05
Capacity (ml):	0.2-0.4ml	0.5ml
Tube Size Max:	6 x 30mm	8 x 30mm



# HIGH CAPACITY MICROTUBE ROTORS

The High-Capacity Microtube Rotors are designed for users who need to centrifuge 0.5 ml and 2 ml tubes at increased volume. They offer a maximum speed of 22,000 RCF, programmable in 10 RCF increments for precise control.



C-R-FA5463 with included sealed lid.



C-R-FA5463 without included sealed lid.

Rotor	C-R-FA5463	C-R-FA5464
Rotor Type	36 x 2.0ml	18 x 2.0 & 18 x 0.5ml
Tube Size Max	11 x 40mm	11x50 & 8x30mm
RCF Range	10-22,000	10-22,000
Maximum RPM	15,000	15,000
Max Radius (cms)	8.75cms	8.75cms
Sample Tube Angle °	45	45
Acceleration Time (secs)	15	15
Deceleration Time (secs)	15	15
Min. Temp @ Max Speed	4°C	4°C
Reducers Available	RS04, RS05	RS04, RS05
Sealed Lid Included?	Yes	Yes
Spare Lid Part No.	C-RL-1440	C-RL-1440
Autoclavable (frequency)	121°C (10)	121°C (10)

Reducers - Pack of 4	C-RC-RS04	C-RC-RS05
Capacity (ml):	0.2-0.4ml	0.5ml
Tube Size Max:	6 x 30mm	8 x 30mm



## HAEMATOCRIT & MICROTUBE ROTOR

The Haematocrit and Microtube Rotor spins capillary tubes and 2 ml tubes, offering maximum flexibility without the need to change rotors. It provides a maximum force of 15,800 RCF, programmable in 10 RCF increments for full control and versatility.



C-R-FA5401 with included sealed lid.

Rotor	C-R-FA5401
Rotor Type	24 x capillary & 12 x 2ml
Tube Size	2 x 75mm & 11 x 40mm
RCF Range	10-15,800
Maximum RPM	13,000
Max Radius (cms)	8.4
Sample Tube Angle °	0 & 60
Acceleration Time (secs)	25
Deceleration Time (secs)	25
Min. Temp @ Max Speed	0°C
Reducers Available	C-RC-RS04, C-RC-RS05
Sealed Lid Included?	Yes
Spare Lid Part No.	C-RL-5401
Autoclavable (frequency)	121°C (10)

Reducers - Pack of 4	C-RC-RS04	C-RC-RS05
Capacity (ml):	0.2-0.4ml	0.5ml
Tube Size Max:	6 x 30mm	8 x 30mm



## CONSUMABLES

Part Number	Description
01604-00	Plain Capillary tubes pack 10 x 100
01603-00	Heparanised Capillary tubes pack 10 x 100
01503-00	Sealing Clay Pk 10
C-P-8011	Rim seal Gasket Pk 10 - <i>Replace regularly every 2 months</i>

## ACCESSORIES

Part Number	Description
01502-00	PCV Reader

# FIXED ANGLE ROTORS

Centurion offers a range of fixed-angle rotors to accommodate different sample sizes, from 10 ml up to 50 ml. For smaller volumes, compatible reducers from 5 ml to 25 ml are also available, providing flexibility and accuracy for your clinic.







C-R-FA5408. Optional lid C-RL-1440L sold separately.



C-R-FA5408 with C-RL-1440L lid sold separately

Rotor	C-R-FA5407	C-R-FA5408	C-R-FA5404
Rotor Type	4 x 15ml & 4 x 10ml	8 x 15ml	4 x 50ml
Tube size Max	17 x 120 & 13 x 110mm	17 x 120mm	30 x 115mm
RCF Range	10-6,100	10-3,500	10-3,500
Maximum RPM	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
Min. Temp @ Max Speed	0°C	0°C	0°C
Reducers Available	RM05, RM10	RM05, RM10	RM15, RM25
Sealed Lid Included?	No	No	No
Spare Lid Part No.	C-RL-1440L	C-RL-1440L	C-RL-1440L
Autoclavable (frequency)	121°C (10)	121°C (10)	121°C (10)

Reducers	C-RC-RM05	C-RC-RM10	C-RC-RM15	C-RC-RM25
Capacity (ml):	5ml 	10ml 	15ml 	25ml 
Tube Size Max:	13 x 80mm	14 x 100mm	17 x 100mm	24 x 100mm

## 8 PLACE SWING OUT ROTOR

For micro samples requiring maximum cell viability, the eight-place swing-out rotor is ideal for small blood samples or 4.5ml general samples. This can be combined with your choice of reducer, depending on capacity requirements.



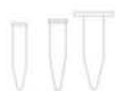
C-R-SO5508 with C-B-1060 buckets sold separately.

Rotor	C-R-SO5508
Capacity	8 x 5ml
Tube Size	13 x 82mm max
RCF Range	10-1,500
Maximum RPM	4,000
Max radius (cms)	8.5
Sample Tube Angle °	0
Acceleration Time (secs)	15
Deceleration Time (secs)	15
Min. Temp @ Max Speed	0°C
Buckets Required	C-B-1060
Autoclavable (frequency)	121°C (10)

## REDUCERS - SET OF 4

Please find our range of reducers, compatible with the C-B-1060 buckets.

### Tube Type: Micro with Cap. Shape: Point



Capacity	Size. mm	Part Number	Historic Part Number	RCF (g) Max
0.2ml	6x20	C-RC-5508A & C-RC-5508C	RS.620	1000
0.4ml	6x30	C-RC-5508A & C-RC-5508C	RS.630	1180
0.5ml	8x20	C-RC-5508B & C-RC-5508C	RS.820	1000
1.5ml	11x38	C-RC-5508C	RS.1138	1325
2.0ml	11x38	C-RC-5508C	RS.1138	1325



### Tube Type: Plain no Cap. Shape: Round

5ml	12x75	C-RC-5508C	RS.1275	1500
6ml	12x82	C-RC-5508C	RS.1282	1500
10ml	15x80	C-RC-5508D	RS.1580	1500



### Tube Type: Nalgene, Oakridge with cap. Shape: Round

10ml	15x80	C-RC-5508D	RS.1580	1500
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### Tube Type: Monovette. Shape: Square

1.1-1.4ml	8x82	C-RC-5508B & C-RC-5508C	RU.882	1500
2.7-3ml	11x82	C-RC-5508C	RU.1182	1500
2.6-2.9ml	13x81	C-RC-5508D	RU.1381	1500



### Tube Type: Vacutainer. Shape: Round

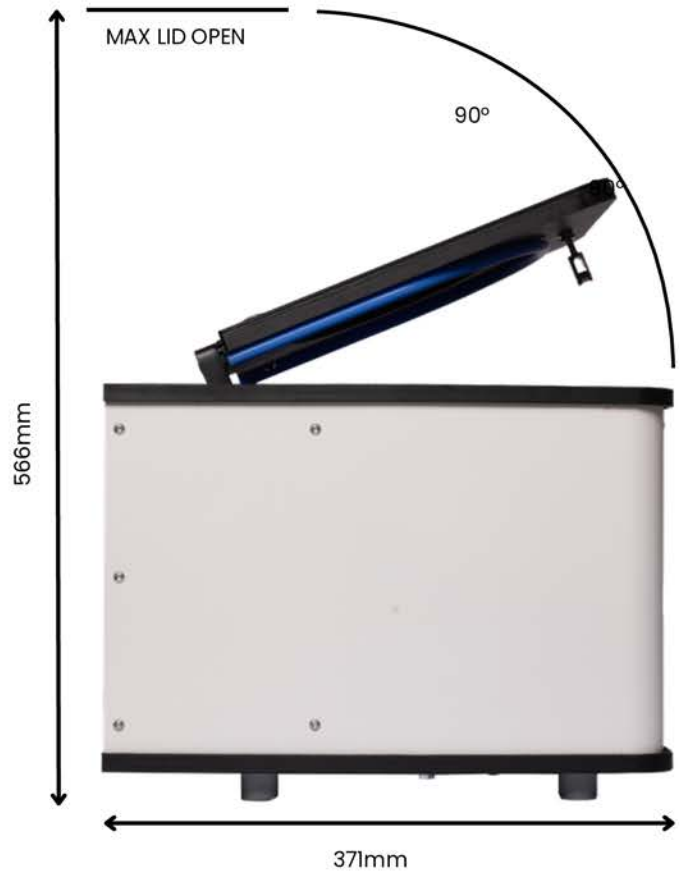
1.6-5ml	13x82	C-RC-5508D	RU.1382	1500
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# MICRO AMBIENT CENTRIFUGE DIMENSIONS



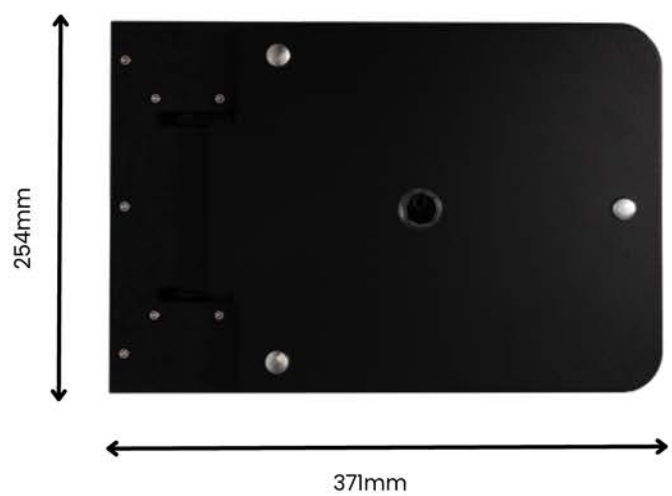
Front View



Side View

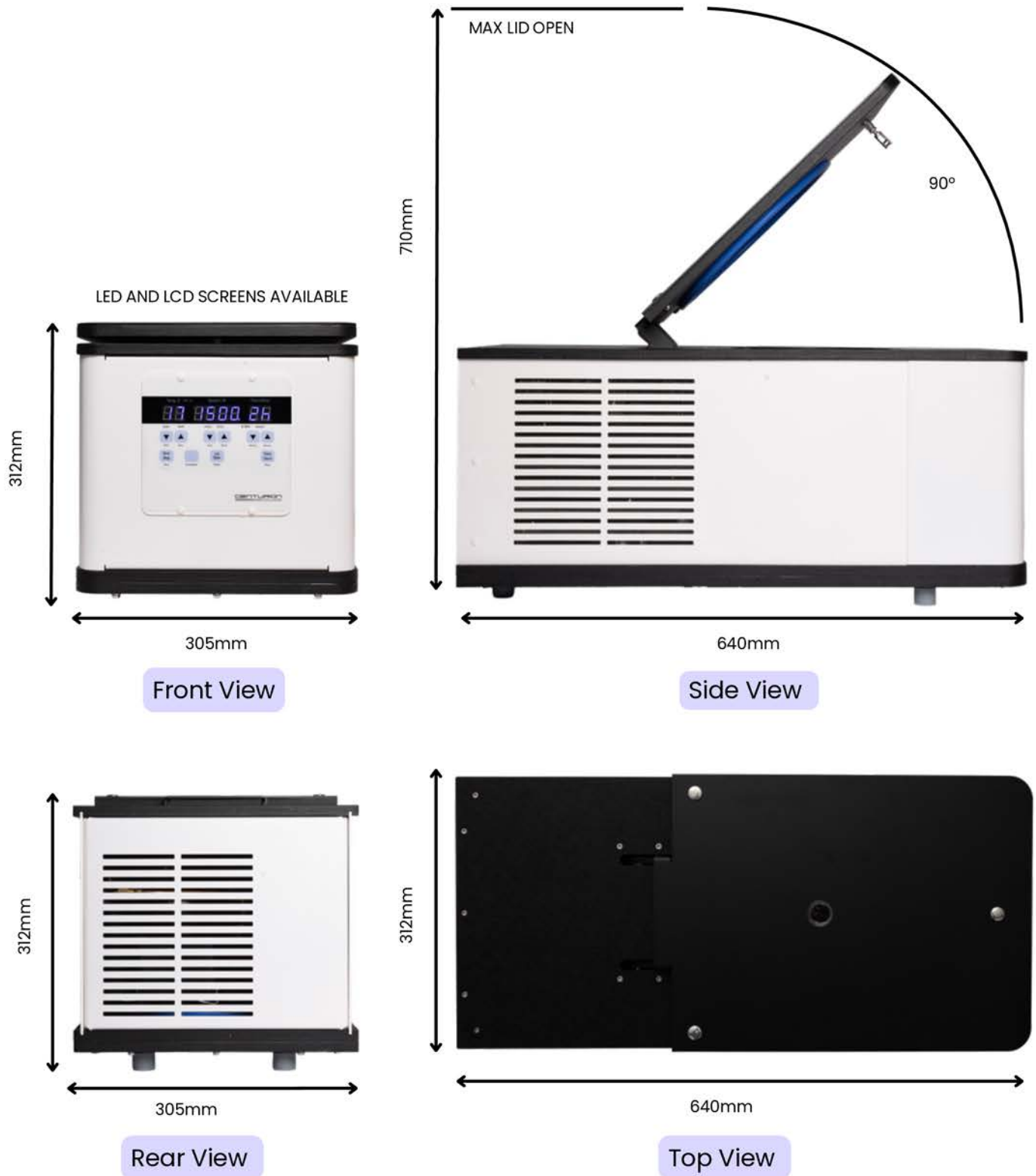


Rear View



Top View

# MICRO REFRIGERATED CENTRIFUGE DIMENSIONS



# Welcome to the Small Centrifuge Range

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Microtube Rotors	24-25
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## LED SMALL CENTRIFUGES TO 0.5L MAX

Centurion’s Small Centrifuges accommodate up to 0.5 L of samples, offering greater flexibility than the micro range. Rotors are purchased separately, providing full versatility to support a wide range of sample sizes.



### Small LED Ambient Centrifuge

RPM	Up to 15,000 RPM (10 RPM steps)
RCF Max	10 - 22,000
Timer	0-9 hours & Hold (30 sec steps)
Dims (WxDxH)	350 x 475 x 337mm
Weight	26 Kg (without rotor)
Power	125 Watts
Memory	99 programs
Accel Rates	10 programs
Decel Rates	10 programs

**PART NUMBERS Ambient LED Model**  
 C-SMALL 230V 50/60Hz (previously C2000)  
 C-1.SMALL 110V 50/60Hz (previously 1.C2000)  
 Alternative plug types available.



### Small LED Refrigerated Centrifuge

RPM	15,000 RPM max (10 RPM steps)
RCF Max	10 - 22,000
Timer	0-9 hours & Hold (30 sec steps)
Dims (WxDxH)	435 x 660 x 337mm
Weight	60 Kg (without rotor)
Power	125 Watts
Memory	99 programs
Accel Rates	10 programs
Decel Rates	10 programs
Temp. Range	-10 to 40°C

**PART NUMBERS Refrigerated LED Model**  
 C-SMALL.R 230V 50/60Hz (previously C2000R)  
 C-1.SMALL.R 110V 60Hz (previously 1.C2000R)  
 Alternative plug types available.

## LCD SMALL CENTRIFUGES TO 0.5L MAX

Centurion also offers the small centrifuges with an LCD touchscreen, with W2t control for sensitive research applications. These centrifuges also accommodate up to 0.5 L of samples, offering greater flexibility than the micro range. Rotors are purchased separately, providing full versatility to support a wide range of sample sizes.



### Small LCD Ambient Centrifuge

RPM	Up to 15,000 RPM (10 RPM steps)
RCF Max	10 - 22,000
Timer	0-9 hours & Hold (30 sec steps)
Dims (WxDxH)	350 x 475 x 337mm
Weight	26 Kg (without rotor)
Power	125 Watts
Memory	99 programs
Accel Rates	10 programs
Decel Rates	10 programs

#### PART NUMBERS Ambient LCD Model

C-SMALL-LCD 230V 50/60Hz (previously K2015)  
 C-1.SMALL-LCD 110V 50/60Hz (previously 1.K2015)  
 Alternative plug types available.



### Small LCD Refrigerated Centrifuge

RPM	15,000 RPM max (10 RPM steps)
RCF Max	10 - 22,000
Timer	0-9 hours & Hold (30 sec steps)
Dims (WxDxH)	435 x 660 x 337mm
Weight	60 Kg (without rotor)
Power	125 Watts
Memory	99 programs
Accel Rates	10 programs
Decel Rates	10 programs
Temp Range	-10 to 40°C

#### PART NUMBERS Refrigerated LCD Model

C-SMALL.R-LCD 230V 50/60Hz (previously K2015R)  
 C-1.SMALL.R-LCD 110V 60Hz (previously 1.K2015R)  
 Alternative plug types available.

## MICROTUBE ROTORS

The Microtube Rotors are designed for the centrifugation of smaller sample sizes ranging from 0.5 ml to 2 ml, as well as PCR strips. They offer a maximum speed of 22,000 RCF, programmable in 10 RCF increments for precise control.







C-R-FA5463 with included sealed lid.



C-R-FA5463 without included sealed lid.

Rotor	C-R-FA5424	C-R-FA5494	C-R-FA5448	C-R-FA5436	C-R-FA5463
Rotor Type	24 x 2.0ml	36 x 0.5ml	48 x 0.2 to 0.4ml	4 x PCR Strips	36 x 2.2ml
Tube Size Max	11 x 40mm	8 x 30mm	6 x 40mm	6 x 40mm	11 x 50mm
RCF Range (g)	10-22,000	10-22,000	10-22,000	10-22,000	10-22,000
Maximum RPM	15,000	15,000	15,000	15,000	15,000
Max Radius (cms)	8.75cms	8.75cms	8.75cms	8.75cms	8.75cms
Sample Tube angle °	45	45	45	45	45
Acceleration Time (secs)	15	15	15	15	15
Deceleration Time (secs)	15	15	15	15	15
Min Temp @ Max Speed	4°C	4°C	4°C	4°C	4°C
Available Reducers	RS04, RS05	RS04, RS05	N/A	N/A	RS04, RS05
Sealed Lid Included?	Yes	Yes	Yes	Yes	Yes
Spare Lid Part No.	C-RL-1440	C-RL-1440	N/A	C-RL-1440	C-RL-1440
Autoclavable (frequency)	121°C (10)	121°C (10)	121°C (10)	121°C (10)	121°C (10)

Reducers	C-RC-RS04	C-RC-RS05
Capacity (ml):	0.2-0.4ml 	0.5ml 
Tube Size Max:	6 x 30mm 	8 x 30mm 

## HIGH CAPACITY MICROTUBE ROTORS

The High-Capacity Microtube Rotors are designed for users who need to centrifuge 0.5 ml, 2.2ml and PCR strips at increased volume. They offer a maximum speed of 10,500 RCF, programmable in 10 RCF increments for precise control.



*C-R-FA5348 with included sealed lid.*

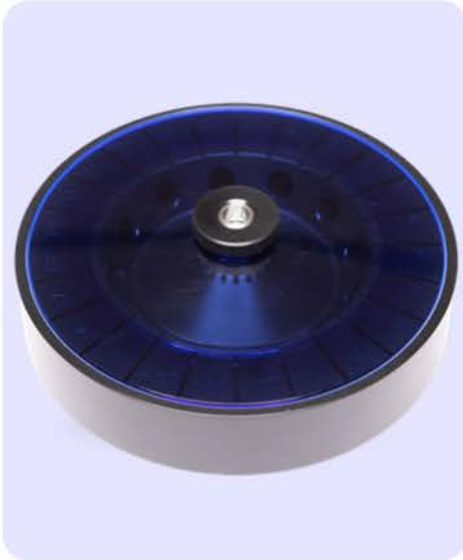


*C-R-FA5348 without included sealed lid.*

Rotor	C-R-FA5348	C-R-FA5349	C-R-FA5398
Rotor Type	48 x 2.2ml	24 x 2.2 & 24 x 0.5ml	8 x PCR Strips
Tube Size Max	11 x 40mm	11x50 & 6x30mm	6 x 40mm
RCF Range (g)	10-10,500	10-10,500	10-10,500
Maximum RPM	10,000	10,000	10,000
Max Radius (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
Min Temp @ Max Speed	0°C	0°C	0°C
Sealed Lid Included?	Yes	Yes	Yes
Spare Lid Part No.	C-RL-1720	C-RL-1720	C-RL-1720
Autoclavable (frequency)	121°C (10)	121°C (10)	121°C (10)

## HAEMATOCRIT & MICROTUBE ROTOR

The Haematocrit and Microtube Rotor spins capillary tubes and 2 ml tubes, offering maximum flexibility without the need to change rotors. It provides a maximum force of 15,800 RCF, programmable in 10 RCF increments for full control and versatility.



C-R-FA5401 with included sealed lid.

Rotor	C-R-FA5401
Rotor Type	24 x capillary & 12 x 2ml
Tube Size	2 x 75mm & 11 x 40mm
RCF Range	10-15,800
Maximum RPM	13,000
Max Radius (cms)	8.4
Sample Tube Angle °	0 & 60
Acceleration Time (secs)	25
Deceleration Time (secs)	25
Min. Temp @ Max Speed	0°C
Reducers Available	C-RC-RS04, C-RC-RS05
Sealed Lid Included?	Yes
Spare Lid Part No.	C-RL-5401
Autoclavable (frequency)	121°C (10)

Reducers - Pack of 4	C-RC-RS04	C-RC-RS05
Capacity (ml):	0.2-0.4ml	0.5ml
Tube Size Max:	6 x 30mm	8 x 30mm



## CONSUMABLES

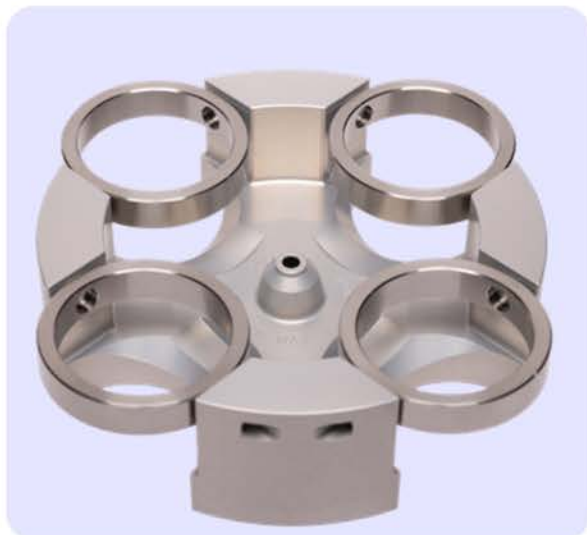
Part Number	Description
01604-00	Plain Capillary tubes pack 10 x 100
01603-00	Heparanised Capillary tubes pack 10 x 100
01503-00	Sealing Clay Pk 10
C-P-8011	Rim seal Gasket Pk 10 - <i>Replace regularly every 2 months</i>

## ACCESSORIES

Part Number	Description
01502-00	PCV Reader

## 4 PLACE SWING OUT ROTOR

For larger-volume samples where cell viability is critical, Centurion recommends the four-place swing-out rotor. It accommodates up to 4 × 125 ml tubes, with a maximum total capacity of 500 ml, and can spin up to 2,200 RCF.



*C-R-SO5506 with included rings.*



*C-R-SO5506 with included rings and example adaptor sold separately.*

Rotor	C-R-SO5506
Tube Size Max	48 x 98mm
RCF Range (g)	10-2,200 RCF
Maximum RPM	4000 RPM
Maximum Radius (cms)	12.3 cm
Sample Tube Angle °	0
Acceleration Time (secs)	30
Deceleration Time (secs)	30
Min. Temp @ Max Speed	0°C
Sealed Lid Included?	No
Spare Lid Part No.	C-BL-B5519
Autoclavable (frequency)	121°C (10)

Centurion offers a wide range of adaptors for the C-R-SO5506 rotor, compatible with different tube types, shapes, and sizes. Purchase of these adaptors is required for this rotor. Please refer to the following page to select the most suitable adaptors for your needs.

## ADAPTORS FOR C-R-S05506

### Tube Type: Micro with Cap. Shape: Point

Capacity	Size (mm)	Part Number	Historic Part No.	Tubes per Rotor
0.2ml	6 x 20	C-A-AM402-5	AM402-5	96
0.4ml	6 x 30	C-A-AM404-5	AM404-5	96
0.5ml	8 x 20	C-A-AM405-5	AM405-5	52
1.5ml	11 x 38	C-A-AM420-5	AM420-5	36
2.0ml	11 x 38	C-A-AM420-5	AM420-5	36

### Tube Type: Plain no Cap. Shape: Round

1ml	6 x 45	C-A-AR401-5	AR401-5	36
3ml	10 x 60	C-A-AR403-5	AR403-5	28
5ml	12 x 75	C-A-AR405-5	AR405-5	20
6ml	12 x 82	C-A-AR406-5	AR406-5	20
7ml	12 x 100	C-A-AR407-5	AR407-5	20
9/10ml	14 x 100	C-A-AR409-5	AR409-5	20
15ml	17 x 100	C-A-AR415-5	AR415-5	16
25ml	24 x 100	C-A-AR425-5	AR425-5	12
50ml	34 x 100	C-A-AR450-5	AR450-5	4
100ml	45 x 100	C-A-AR4100-5	AR4100-5	4
125ml	52 x 100	C-A-AR4125-5	AR4125-5	4

### Tube Type: Falcon with cap. Shape: Point

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

### Tube Type: Falcon with Cap. Shape: Square

12ml	17 x 100	C-A-AFS412-5	AFS412-5	8
15ml	17 x 120	C-A-AFS415-5	AFS415-5	4
25ml	25 x 90	C-A-AFS425-5	AFS425-5	4
30ml	25 x 110	C-A-AFS430-5	AFS430-5	4
50ml	29 x 115	C-A-AFS450-5	AFS4100-5	4

### Tube Type: Nalgene. Oakridge with Cap. Shape: Round

10ml	17 x 80	C-A-ANO410-5	ANO410-5	12
30ml	26 x 95	C-A-ANO430-5	ANO430-5	4
50ml	29 x 107	C-A-ANO450-5	ANO450-5	4
100ml	38 x 114	C-A-ANO485-5	ANO485-5	4

### Tube Type: Monovette. Shape: Square

1.1-1.4ml	8 x 82	C-A-AM4014-5	AM4014-5	40
2.7-3ml	11 x 82	C-A-AM403-5	AM403-5	40
2.6-2.9ml	13 x 81	C-A-AM429-5	AM429-5	28
4.5-5ml	11 x 108	C-A-AM445-5	AM445-5	32
4.5-5ml	15 x 92	C-A-AM450-5	AM450-5	20
7.5-8.2ml	13 x 106	C-A-AM479-5	AM479-5	24
9-10ml	16 x 108	C-A-AM490-5	AM490-5	16

### Tube Type: Vacutainer. Shape: Round

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

### Tube type: Vacuette. Shape: Round

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

## 8 PLACE SWING OUT ROTOR

For small samples requiring maximum cell viability, the eight-place swing-out rotor is an excellent choice and can be combined with reducers to suit on your capacity requirements.



C-R-SO5508 with C-B-1087 buckets, sold separately.

### C-R-SO5508 Rotor

Capacity	8 x 10ml
Tube size	17 x 100mm max
RCF Range (g)	10-2,150
Maximum RPM	4,000
Max Radius (cms)	12.3
Sample Tube angle °	0
Acceleration Time (secs)	15
Deceleration Time (secs)	15
Min. Temp @ Max Speed	0°C
Buckets Required	C-B-1087
Autoclavable (frequency)	121°C (10)

## REDUCERS - SET OF 4

Please find our range of reducers, compatible with the C-B-1087 buckets.

### Tube Type: Micro with Cap. Shape: Point

Capacity	Size (mm)	Part Number	Historic Part No.	Tubes per Rotor
0.2ml	6 x 20	C-RC-5508A & CRC-5508E	R8.620	1000
0.4ml	6 x 30	C-RC-5508A & C-RC-5508E	R8.630	1180
0.5ml	8 x 20	C-RC-5508B & C-RC-5508E	R8.820	1000
1.5ml	11 x 38	C-RC-5508E	R8.1138	1325
2.0ml	11 x 38	C-RC-5508E	R8.1138	1325



### Tube Type: Plain no Cap. Shape: Round

5ml	12 x 75	C-RC-5508E	R8.645	1500
6ml	12 x 82	C-RC-5508E	R8.1060	1500
7ml	12 x 100	C-RC-5508G	R8.1275	1825
9-10ml	14 x 100	C-RC-5508H	R8.1282	1825
10ml	17 x 100	NOT REQUIRED	R8.12100	2150
15ml	15 x 80	C-RC-5508F	R8.17100	1470



### Tube Type: Nalgene, Oakridge with cap. Shape: Round

10ml	15 x 80	C-RC-5508D	R8.1580	1500
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### Tube Type: Monovette. Shape: Square

1.1-1.4ml	8 x 82	C-RC-5508B & C-RC-5508E	R8.882	1700
2.7-3ml	11 x 82	C-RC-5508E	R8.1182	1470
2.6-2.9ml	13 x 81	C-RC-5508F	R8.1381	1470
4.5-5ml	15 x 92	C-RC-5508F	R8.1592	1470



### Tube Type: Vacutainer. Shape: Round

1.6-5ml	13 x 82	C-RC-5508E	R8.1382	1470
4-7ml	13 x 106	C-RC-5508H	R8.13106	1825
7-9ml	15 x 92	C-RC-5508F	R8.1592	1470
8.5-10ml	16 x 106	NOT REQUIRED	R8.16108	2150



## LOW SPEED FIXED ANGLE ROTORS

Centurion offers five low-speed fixed-angle rotors for the Small Centrifuges, available for 15 ml, 50 ml, or 100 ml sample sizes. All rotors can centrifuge up to 4,800 RCF, or 6,000 RPM.



C-R-FA5406. Optional sealed lid C-RL-5424HD sold separately.



C-R-FA5308 rotor with included sealed lid.



C-R-FA5308 rotor without included sealed lid.

Rotor	C-R-FA5412	C-R-FA5406	C-R-FA5324	C-R-FA5308	C-R-FA5100
Rotor Type	12 x 15ml	6 x 50ml	24 x 15ml	8 x 50ml	6 x 100ml
Tube Size Max	17 x 120mm	30 x 120mm	17 x 120mm	30 x 120mm	38 x 125mm
RCF Range (g)	10 -3,800	10-3,800	10-4,800	10-4,800	10-4,800
Maximum RPM	6,000	6,000	6,000	6,000	6,000
Max Radius (cms)	9.5	9.5	12	12	12
Sample Tube angle °	30	30	35	35	30
Acceleration Time (secs)	25	25	30	30	30
Deceleration Time (secs)	25	25	35	35	35
Min Temp @ Max Speed	4°C	4°C	-6°C	-6°C	-6°C
Available Reducers	RM05, RM10	RM15, RM25	RM05, RM10	RM15, RM25	RM15, RM25, RM50
Sealed Lid Included?	No	No	Yes	Yes	Yes
Spare Lid Part No.	C-RL-1440	C-RL-1440	C-RL-1720	C-RL-1720	C-RL-1720
Autoclavable (frequency)	121°C (10)	121°C (10)	121°C (10)	121°C (10)	121°C (10)

Reducers	C-RC-RM05	C-RC-RM10	C-RC-RM15	C-RC-RM25	C-RC-RM50
Capacity (ml):	5ml	10ml	15ml	25ml	50ml
Tube Size Max:	13 x 80mm	14 x 100mm	17 x 100mm	24 x 100mm	30 x 110mm



## HIGH SPEED FIXED ANGLE ROTORS

Centurion offers several high-speed fixed-angle rotors for the Small Centrifuges, available for 10 ml, 15 ml, and 50 ml sample sizes. All rotors have a maximum speed of 9,500 RCF, or 10,000 RPM.



C-R-FA5202 rotor with included sealed lid.



C-R-FA5202 rotor without included sealed lid.

Rotor	C-R-FA5202	C-R-FA5204
Rotor Type	8 x 15ml tube	4 x 50ml tube
Tube Size Max	17 x 120mm	30 x 115mm
RCF Range (g)	10-9,500	10-9,500
Maximum RPM	10,000	10,000
Max Radius (cms)	8.5	8.5
Sample Tube Angle °	60	60
Acceleration Time (secs)	180	180
Deceleration Time (secs)	25	25
Min. Temp @ Max Speed	0°C	0°C
Reducers Available	RM05, RM10	RM15, RM25
Sealed Lid Included?	Yes	Yes
Spare Lid Part No.	C-RL-1440	C-RL-1440
Autoclavable (frequency)	121°C (10)	121°C (10)

Reducers	C-RC-RM05	C-RC-RM10	C-RC-RM15	C-RC-RM25
Capacity (ml):	5ml 	10ml 	15ml 	25ml 
Tube Size Max:	13 x 80mm	14 x 100mm	17 x 100mm	24 x 100mm

## MICROTITER PLATE ROTOR

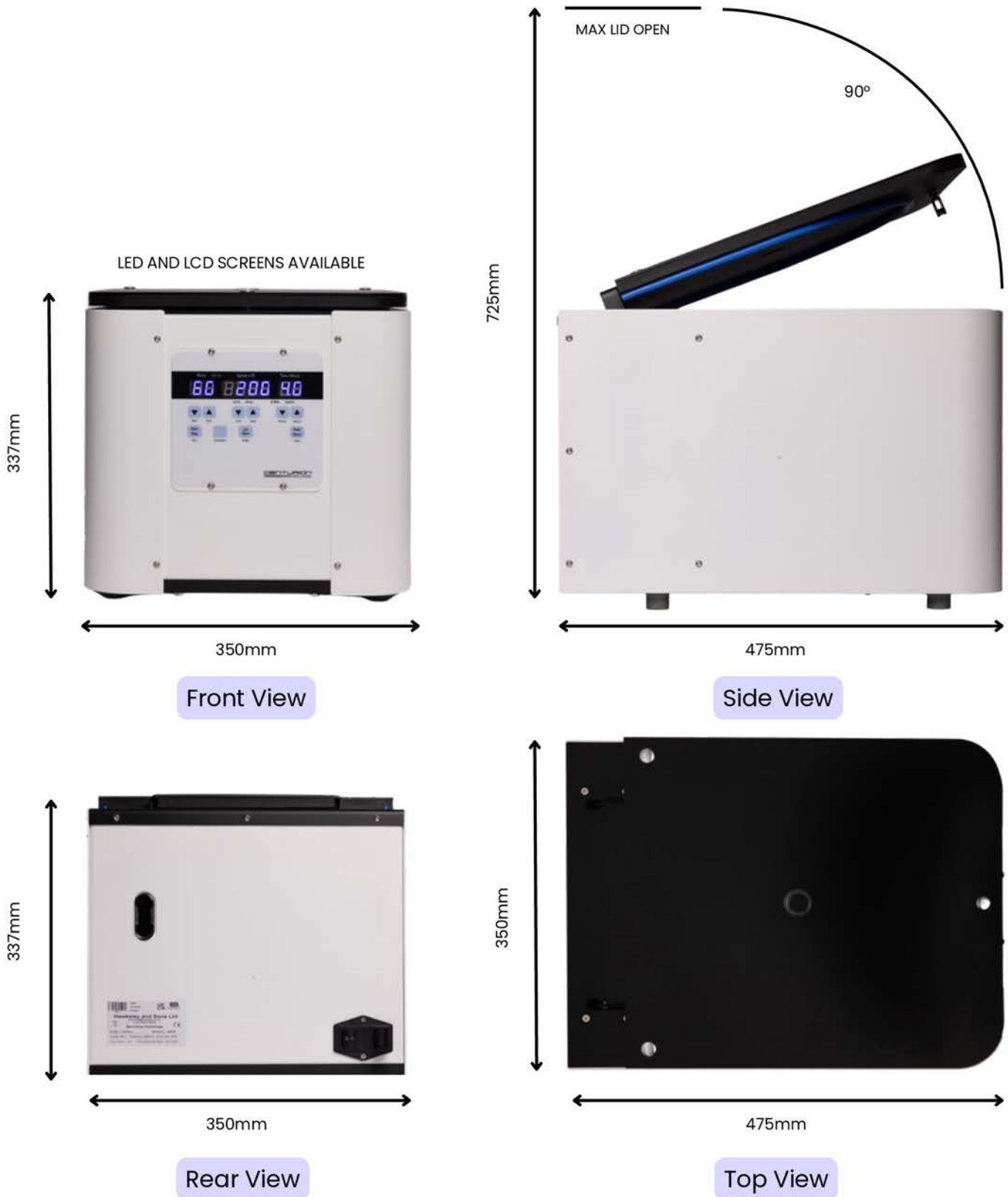
The Microtiter Rotor is a high-performance rotor for microplate centrifugation, ideal for ELISA, PCR, and other assay workflows. It offers rapid spin-down, low vibration, and secure plate clamping for reliable results, while its robust, corrosion-resistant construction ensures long-lasting, safe use in busy laboratories.



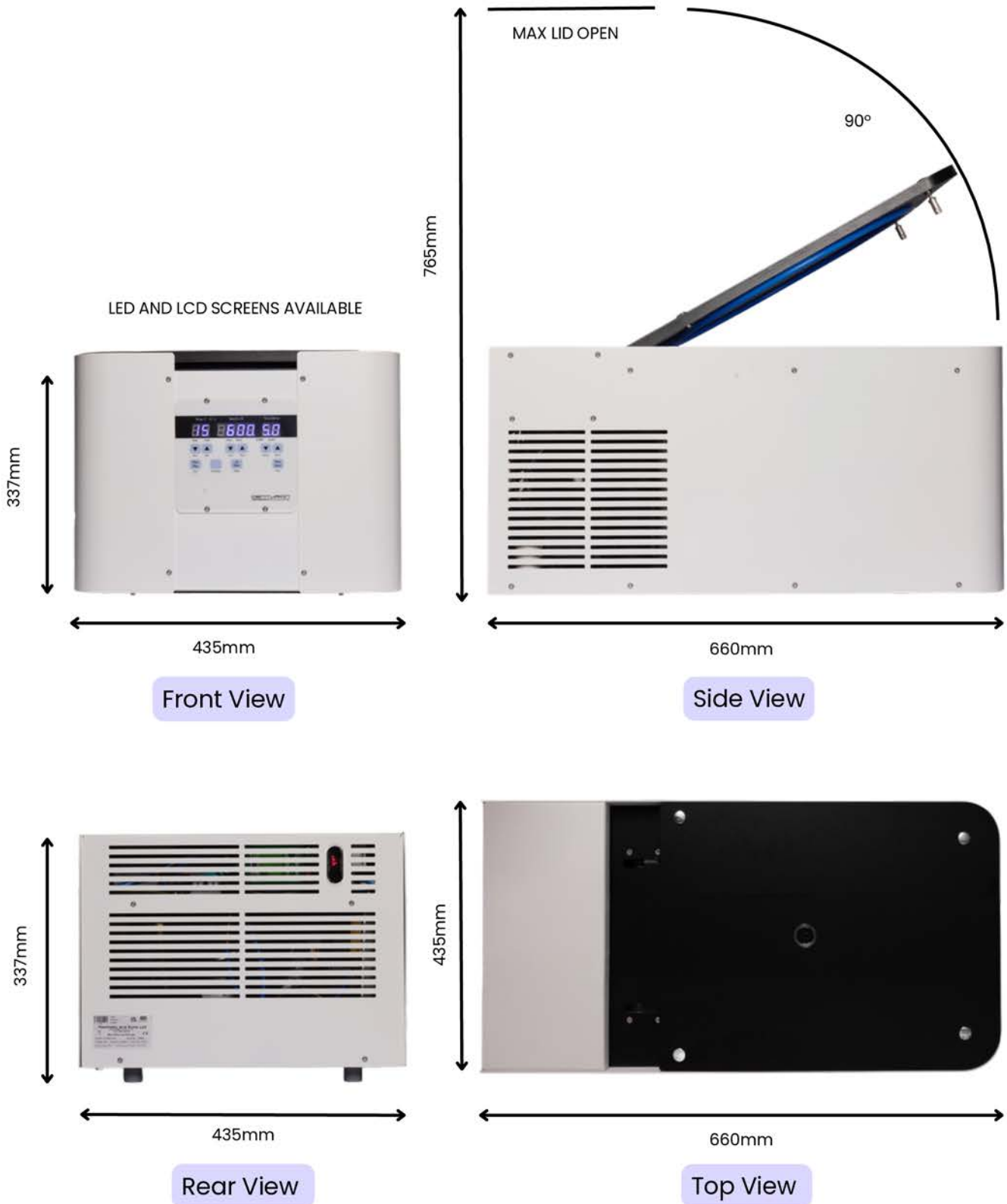
*C-R-MT5740 with included buckets.*

Rotor	C-R-MT5740
Buckets	Complete with buckets, Available with 4 x STD Plates
Tube Size	85mm x 128mm
RCF Range (g)	10-1700
Maximum RPM	3500
Max Radius (cms)	12.4
Sample Tube Angle °	0° (10)
Acceleration Time (secs)	25
Deceleration Time (secs)	25
Min. Temp @ Max Speed	0°C
Autoclavable (frequency)	121°C (10)

# SMALL AMBIENT CENTRIFUGE DIMENSIONS



## SMALL REFRIGERATED CENTRIFUGE DIMENSIONS



# Welcome to the Medium Centrifuge Range

Medium Centrifuges 36-37

Microtube Rotors 38-39

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8 Place Swing Out Rotor 45

Microtiter Plate Rotor 46

Centrifuge Dimensions 47-48

## LED MEDIUM CENTRIFUGES TO 1.0 LITRE MAX

Centurion’s Medium Centrifuges accommodate up to 1.0 L of samples, making them ideal for analysing larger sample volumes. Rotors are purchased separately, providing full flexibility to accommodate a wide range of sample sizes.



### Medium LED Ambient Centrifuge

RPM	15,000 RPM max (10 RPM steps)
RCF	10 - 22,000
Timer	0-9hours & Hold (30 sec steps)
Dims (WxDxH)	440 x 563 x 330mm
Weight	34 Kg (without rotor)
Power	275 Watts
Memory	99 programs
Accel rates	10 programs
Decel rates	10 programs

**PART NUMBERS Ambient LED Centrifuge**  
 C-MEDIUM 230V 50/60Hz (previously C4000)  
 C-1.MEDIUM 110V 50/60Hz (previously 1.C4000)  
 Alternative plug types available.



### Medium LED Refrigerated Centrifuge

RPM	15,000 RPM max (10 RPM steps)
RCF	10 - 22,000
Timer	0-9hours & Hold (30 sec steps)
Dims WxDxH	435 x 660 x 337mm
Weight	60 Kg (without rotor)
Power	625 Watts
Memory	99 programs
Accel Rates	10 programs
Decel Rates	10 programs
Temp Range	-10C to 40C PID controlled to +/- 1C

**PART NUMBERS Refrigerated LED Centrifuge**  
 C-MEDIUM.R 230V 50/60Hz (previously C4000R)  
 C-1.MEDIUM.R 110V 60Hz (previously 1.C4000R)  
 Alternative plug types available.

## LCD MEDIUM CENTRIFUGES TO 1.0 LITRE MAX

Centurion also offers the medium range with a touchscreen LCD screen, and W2t control for sensitive research applications. Rotors are purchased separately, providing full flexibility to accommodate a wide range of sample sizes.



### Medium LCD Ambient Centrifuge

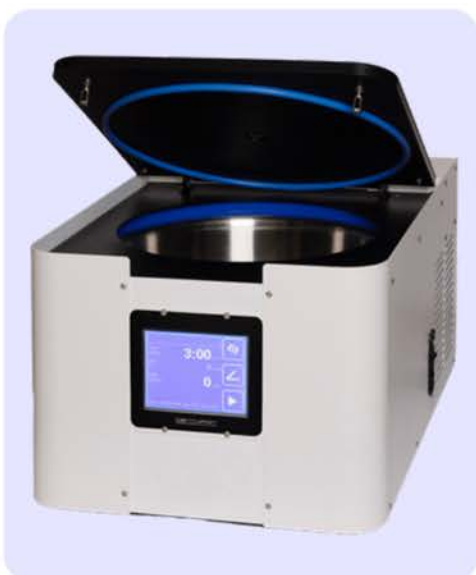
RPM	15,000 RPM max (10 RPM steps)
RCF	10 - 22,000
Timer	0-9hours & Hold (30 sec steps)
Dims (WxDxH)	440 x 563 x 330mm
Weight	34 Kg (without rotor)
Power	275 Watts
Memory	99 programs
Accel rates	10 programs
Decel rates	10 programs

#### PART NUMBERS Ambient LCD Centrifuge

C-MEDIUM-LCD 230V 50/60Hz (previously K241)

C-1.MEDIUM-LCD 110V 50/60Hz (previously 1.K241)

Alternative plug types available.



### Medium LCD Refrigerated Centrifuge

RPM	15,000 RPM max (10 RPM steps)
RCF	10 - 22,000
Timer	0-9hours & Hold (30 sec steps)
Dims WxDxH	435 x 660 x 337mm
Weight	60 Kg (without rotor)
Power	625 Watts
Memory	99 programs
Accel Rates	10 programs
Decel Rates	10 programs
Temp Range	-10C to 40C PID controlled to +/- 1C

#### PART NUMBERS Refrigerated LCD Centrifuge

C-MEDIUM.R-LCD 230V 50/60Hz (previously K241R)

C-1.MEDIUM.R-LCD 110V 60Hz (previously 1.K241R)

Alternative plug types available.

## MICROTUBE ROTORS

The Microtube Rotors are designed for the centrifugation of smaller sample sizes ranging from 0.5 ml to 2 ml, as well as PCR strips. They offer a maximum speed of 22,000 RCF, programmable in 10 RCF increments for precise control.







C-R-FA5424 rotor with included sealed lid.



C-R-FA5424 rotor without included lid.

Rotor	C-R-FA5424	C-R-FA5436	C-R-FA5448	C-R-FA5494
Rotor Type	24 x 2.0ml	36 x 0.5ml	48 x 0.2 to 0.4ml	4 x PCR Strips
Tube Size	11 x 40mm	8 x 30mm	6 x 40mm	6 x 40mm
RCF Range (g)	10-22,000	10 -22,000	10 -22,000	10-22,000
Maximum RPM	15,000	15,000	15,000	15,000
Max Radius (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
Min Temp @ Max Speed	4°C	4°C	4°C	4°C
Reducers Available	RS04, RS05	N/A	N/A	N/A
Sealed Lid Included?	Yes	Yes	Yes	Yes
Spare Lid Part No.	C-RL-1440	C-RL-1440	N/A	C-RL-1440
Autoclavable (frequency)	121°C (10)	121°C (10)	121°C (10)	121°C (10)

Reducers - Pack of 4	C-RC-RS04	C-RC-RS05
Capacity (ml):	0.2-0.4ml 	0.5ml 
Tube Size Max:	6 x 30mm 	8 x 30mm 

## MICROTUBE ROTORS - HIGH CAPACITY

The High-Capacity Microtube Rotors are designed for users who need to centrifuge 0.5 ml, 2.2ml and PCR strips at increased volume. They offer a maximum speed of 10,500 RCF, programmable in 10 RCF increments for precise control.



C-R-FA5348 rotor with included sealed lid.



C-R-FA5348 rotor without included lid.

Rotor	C-R-FA5348	C-R-FA5349	C-R-FA5398
Rotor Type	48 x 2.2ml	24 x 2.2 & 24 x 0.5ml	8 x PCR Strips
Tube Size Max	11 x 40mm	11x50 & 6x30mm	6 x 40mm
RCF Range (g)	10-10,500	10-10,500	10-10,500
Maximum RPM	10,000	10,000	10,000
Max Radius (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
Min. Temp @ Max Speed	0°C	0°C	0°C
Sealed Lid Included?	Yes	Yes	Yes
Spare Lid Part No.	C-RL-1720	C-RL-1720	C-RL-1720
Autoclavable (frequency)	121°C (10)	121°C (10)	121°C (10)

## HAEMATOCRIT & MICROTUBE ROTOR

The Haematocrit and Microtube Rotor spins capillary tubes and 2 ml tubes, offering maximum flexibility without the need to change rotors. It provides a maximum force of 15,800 RCF, programmable in 10 RCF increments for full control and versatility.



C-R-FA5401 with included sealed lid.

Rotor	C-R-FA5401
Rotor Type	24 x capillary & 12 x 2ml
Tube Size	2 x 75mm & 11 x 40mm
RCF Range	10-15,800
Maximum RPM	13,000
Max Radius (cms)	8.4
Sample Tube Angle °	0 & 60
Acceleration Time (secs)	25
Deceleration Time (secs)	25
Min. Temp @ Max Speed	0°C
Reducers Available	C-RC-RS04, C-RC-RS05
Sealed Lid Included?	Yes
Spare Lid Part No.	C-RL-5401
Autoclavable (frequency)	121°C (10)

Reducers - Pack of 4	C-RC-RS04	C-RC-RS05
Capacity (ml):	0.2-0.4ml	0.5ml
Tube Size Max:	6 x 30mm	8 x 30mm



## CONSUMABLES

Part Number	Description
01604-00	Plain Capillary tubes pack 10 x 100
01603-00	Heparanised Capillary tubes pack 10 x 100
01503-00	Sealing Clay Pk 10
C-P-8011	Rim seal Gasket Pk 10 - <i>Replace regularly every 2 months</i>

## ACCESSORIES

Part Number	Description
01502-00	PCV Reader

## HIGH SPEED FIXED ANGLE ROTORS

Centurion offers two high-speed fixed-angle rotors for the Medium Centrifuges, available for 15 ml and 50 ml sample sizes. Both rotors have a maximum speed of 10,600 RCF, or 10,000 RPM.







C-R-FA5212 rotor with included sealed lid.



C-R-FA5212 rotor without included lid.

Rotor	C-R-FA5212	C-R-FA5206
Rotor Type	12 x 15ml	6 x 50ml
Tube Size Max	17 x 120mm	30 x 120mm
RCF Range (g)	10-10,600	10-10,600
Maximum RPM	10,000	10,000
Max Radius (cms)	9.5	9.5
Sample Tube Angle °	60	60
Acceleration Time (secs)	180	180
Deceleration Time (secs)	25	25
Min. Temp @ Max Speed	0°C	0°C
Reducers Available	RM05, RM10	RM15, RM25
Sealed Lid Included?	Yes	Yes
Spare Lid Part No.	C-RL-1440	C-RL-1440
Autoclavable (frequency)	121°C (10)	121°C (10)

Reducers	C-RC-RM05	C-RC-RM10	C-RC-RM15	C-RC-RM25
Capacity (ml):	5ml 	10ml 	15ml 	25ml 
Tube Size Max:	13 x 80mm	14 x 100mm	17 x 100mm	24 x 100mm

## LOW SPEED FIXED ANGLE ROTORS

Centurion offers three low-speed fixed-angle rotors for the Medium Centrifuges, available for 15 ml, 50 ml, or 100 ml sample sizes. All rotors can centrifuge up to 4,800 RCF, or 6,000 RPM.



C-R-FA5308 rotor with included sealed lid.



C-R-FA5308 rotor without included sealed lid.

Rotor	C-R-FA5324	C-R-FA5308	C-R-FA5100
Rotor Type	24 x 15ml	8 x 50ml	6 x 100ml
Tube Size Max	17 x 120mm	30 x 120mm	38 x 125mm
RCF Range (g)	10-4,800	10-4,800	10-4,800
Maximum RPM	6,000	6,000	6,000
Max Radius (cms)	12	12	12
Sample Tube Angle °	35	35	30
Acceleration Time (secs)	30	30	30
Deceleration Time (secs)	35	35	35
Min. Temp @ Max Speed	-6°C	-6°C	-6°C
Reducers Available	RM05, RM10	RM15, RM25	RM15, RM25, RM50
Sealed Lid Included?	Yes	Yes	Yes
Spare Lid Part No.	C-RL-1720	C-RL-1720	C-RL-1720
Autoclavable (frequency)	121°C (10)	121°C (10)	121°C (10)

Reducers	C-RC-RM05	C-RC-RM10	C-RC-RM15	C-RC-RM25	C-RC-RM50
Capacity (ml):	5ml	10ml	15ml	25ml	50ml
Tube Size Max:	13 x 80mm	14 x 100mm	17 x 100mm	24 x 100mm	30 x 110mm



## 4 PLACE SWING OUT ROTOR

For larger-volume samples where cell viability is critical, Centurion recommends the four-place swing-out rotor. It accommodates up to 4 × 250 ml tubes, with a maximum total capacity of 1000 ml, and can spin up to 2,600 RCF.



*C-R-SO1001 rotor with C-B-5251 buckets sold separately and adaptor sold separately.*



*C-R-SO1001 rotor with C-B-5251 buckets sold separately, and optional lids sold separately.*

Rotor/Buckets	C-R-SO1001 & C-B-5251 Buckets
Tube Size Max	62 x 100mm
RCF Range (g)	10-2,600
Maximum RPM	4,000
Max Radius (cms)	14.6cm
Sample Tube Angle °	0
Acceleration time (secs)	25
Deceleration time (secs)	35
Min. Temp @ Max Speed	0°C
Sealed Lid Included?	No
Spare Lid Part No.	C-BL-B5519
Buckets Required	C-B-1105
Autoclavable (frequency)	121°C (10)

Centurion offers a wide range of adaptors for the C-R-SO1001 rotor, compatible with different tube types, shapes, and sizes. Purchase of these adaptors is required for this rotor. Please refer to the following page to select the most suitable adaptors for your needs.

## ADAPTORS FOR C-R-SO1001

### Tube Type: Micro with cap. Shape: Point

Capacity	Size. mm	Part Number	Historic Part Number	Tubes Per Rotor
0.5ml	8 x 20	C-A-AM605-1	AM605-1	104
1.5ml	11 x 38	C-A-AM620-1	AM620-1	72
2.0ml	11 x 38	C-A-AM620-1	AM620-1	72
0.2ml	6 x 20	C-A-AM602-1	AM602-1	144
0.4ml	6 x 30	C-A-AM604-1	AM604-1	144

### Tube Type: Plain no cap. Shape: Round

1ml	6 x 45	C-A-AR601-1	AR601-1	36
3ml	10 x 60	C-A-AR603-1	AR603-1	28
5ml	12 x 75	C-A-AR605-1	AR605-1	20
6ml	12 x 82	C-A-AR606-1	AR606-1	20
7ml	12 x 100	C-A-AR607-1	AR607-1	20
9/10ml	14 x 100	C-A-AR609-1	AR609-1	20
15ml	17 x 100	C-A-AR615-1	AR615-1	16
25ml	24 x 100	C-A-AR625-1	AR625-1	12
50ml	34 x 100	C-A-AR650-1	AR650-1	4
100ml	45 x 100	C-A-AR6100-1	AR6100-1	4
125ml	52 x 100	C-A-AR6150-1	AR6150-1	4

### Tube Type: Falcon with cap. Shape: Point

15ml	17 x 120	C-A-AF615-1	AF615-1	16
50ml	29 x 115	C-A-AF 650-1	AF650-1	4

### Tube Type: Falcon with cap. Shape: Square

12ml	17 x 100	C-A-AFS612-1	AFS612-1	12
15ml	17 x 120	C-A-AFS615-1	AFS615-1	12
25ml	25 x 90	C-A-AFS625-1	AFS625-1	4
30ml	25 x 110	C-A-AFS630-1	AFS630-1	4
50ml	29 x 115	C-A-AFS650-1	AFS650-1	4

### Tube Type: Nalgene. Oakridge with Cap. Shape: Round

10ml	15 x 80	C-A-ANO610-1	ANO610-1	16
30ml	26 x 95	C-A-ANO630-1	ANO630-1	4
50ml	29 x 107	C-A-ANO650-1	ANO650-1	4
100ml	38 x 114	C-A-ANO6100-1	ANO6100-1	4

### Tube Type: Nalgene. Oakridge with cap. Shape: Flat

250ml	62 x 122	C-A-AC62130	AC62130	4
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### Tube Type: Monovette. Shape: Square

1.1-1.4ml	8 x 82	C-A-AM6014-1	AM6014-1	52
2.7-3ml	11 x 82	C-A-AM645-1	AM645-1	52
2.6-2.9ml	13 x 81	C-A-AM629-1	AM629-1	28
4.5-5ml	11 x 108	C-A-AM603-1	AM603-1	52
7.5-8.2ml	13 x 106	C-A-AM679-1	AM679-1	28
4.5-5ml	15 x 92	C-A-AM650-1	AM650-1	20
9-10ml	16 x 108	C-A-AM690-1	AM690-1	20

### Tube Type: Vacutainer. Shape: Round

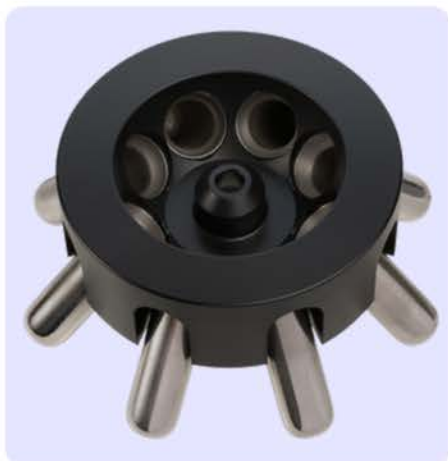
1.6-5ml	13 x 82	C-A-AV616-1	AV616-1	28
4-7ml	13 x 106	C-A-AV650-1	AV650-1	28
7-9ml	15 x 92	C-A-AV670-1	AV670-1	16
8.5-10ml	16 x 108	C-A-AV680-1	AV680-1	20

### Tube Type: Vacuette. Shape: Round

1.6-5ml	13 x 82	C-A-AV616-1	AV616-1	28
4-7ml	13 x 106	C-A-AV650-1	AV650-1	28
7-9ml	15 x 92	C-A-AV670-1	AV670-1	16
8.5-10ml	16 x 108	C-A-AV680-1	AV680-1	20

## 8 PLACE SWING OUT ROTOR

For medium samples requiring maximum cell viability, the eight-place swing-out rotor is an excellent choice and can be combined with reducers to suit on your capacity requirements.



C-R-SO5508 rotor with C-B-1105 buckets, sold separately.

Rotor	C-R-SO5508
Capacity	8 x 15ml
Tube Size	17 x 100mm max
RCF Range (g)	10-2,470 RCF
Maximum RPM	4,000
Max Radius (cms)	14.6
Sample Tube Angle °	0
Acceleration Time (secs)	15
Deceleration Time (secs)	15
Min. Temp @ Max Speed	0°C
Buckets Required	C-B-1105
Autoclavable (frequency)	121°C (10)

## REDUCERS - SET OF 4

Please find our range of reducers, compatible with the C-B-1105 buckets.

### Tube Type: Micro with Cap. Shape: Point

Capacity	Size (mm)	Part Number	Historic Part No.	RCF (g) Max
0.2ml	6 x 20	C-RC-5508A & C-RC-5508J	R8.620	1000
0.4ml	6 x 30	C-RC-5508A & C-RC-5508J	R8.630	1180
0.5ml	8 x 20	C-RC-5508B & C-RC-5508J	R8.720	1000
1.5ml	11 x 38	C-RC-5508J	R8.1138	1325
2.0ml	11 x 38	C-RC-5508J	R8.1138	1325



### Tube Type: Plain no Cap. Shape: Round

5ml	12 x 75	C-RC-5508J	R8.1275	1500
6ml	12 x 82	C-RC-5508J	R8.1282	1500
7ml	12 x 100	C-RC-5508L	R8.12100	1825
9-10ml	14 x 100	C-RC-5508M	R8.12100	1825
10ml	15 x 80	C-RC-5508K	N/A	1470
15ml	17 x 100	Not required	R8.17100	2150



### Tube Type: Nalgene & Oakridge with cap. Shape: Round

10ml	15 x 80	C-RC-5508D	R8.1580	1500
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### Tube Type: Monovette. Shape: Square

1.1-1.4ml	8 x 82	C-RC-5508B & C-RC-5508J	R8.882	1700
2.7-3ml	11 x 82	C-RC-5508J	R8.1182	1470
2.6-2.9ml	13 x 81	C-RC-5508K	R8.1381	1470
4.5-5ml	15 x 92	C-RC-5508M	R8.11108	1825
7.8-8.2ml	13 x 106	C-RC-5508M	R8.13106	1825
4.5-5ml	15 x 92	C-RC-5508K	R8.1592	1950
8.5 - 10ml	16 x 108	Not required	R8.16108	2470



### Tube Type: Vacutainer. Shape: Round

1.6-5ml	13x 82	C-RC-5508K	R8.1382	1470
4-7ml	13 x 106	C-RC-5508M	R8.13106	1825
7-9ml	15 x 92	C-RC-5508M	R8.1592	1470
8.5-10ml	16 x 106	Not required	R8.16108	2150



## MICROTITER PLATE ROTOR

The Microtiter Rotor is a high-performance rotor for microplate centrifugation, ideal for ELISA, PCR, and other assay workflows. It offers rapid spin-down, low vibration, and secure plate clamping for reliable results, while its robust, corrosion-resistant construction ensures long-lasting, safe use in busy laboratories.



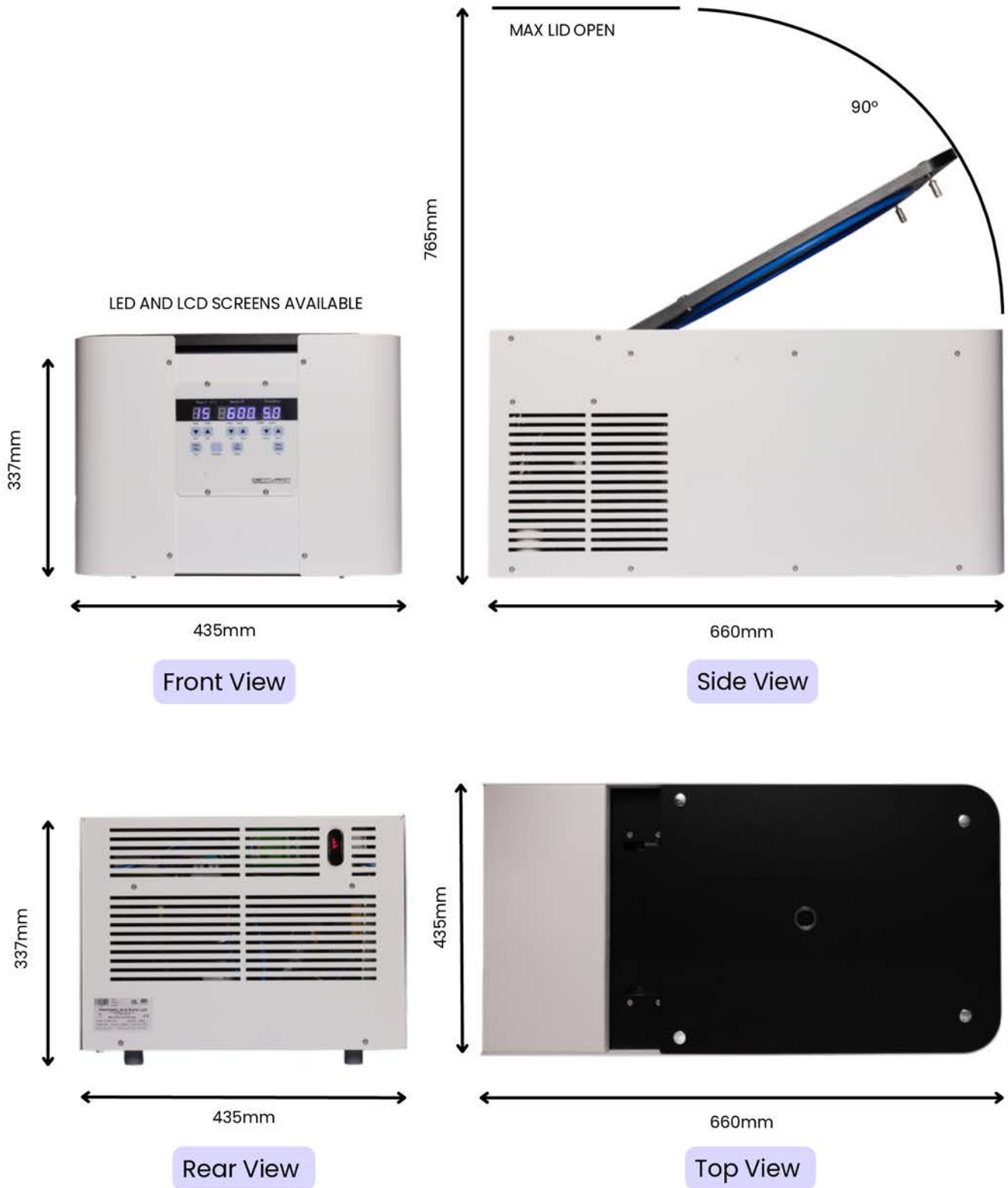
*C-R-MT5540 with included buckets.*

Rotor	C-R-MT5540
Buckets	Complete with buckets, Available with 4 x STD Plates
Tube Size	85mm x 128mm
RCF Range (g)	10-2500
Maximum RPM	3500
Radius Max (cms)	14
Sample Tube Angle °	0°C (10)
Acceleration Time (secs)	30
Deceleration Time (secs)	30
Min. Temp @ Max Speed	0°C
Autoclavable (frequency)	121°C (10)

# MEDIUM AMBIENT CENTRIFUGE DIMENSIONS



# MEDIUM REFRIGERATED CENTRIFUGE DIMENSIONS



# Welcome to the Large Centrifuge Range

Large Centrifuges	50-51
Microtube Rotors	52-53
4 Place Swing Out Rotor & Adaptors	54-56
Fixed Angle Rotors	57-59
Microtiter Plate Rotor	60
Centrifuge Dimensions	61-63

## LED LARGE CENTRIFUGES TO 2L & 3L

Centurion's Large Centrifuges accommodate up to 2L or 3L of samples, making them ideal for analysing larger volumes. Rotors are purchased separately, providing full flexibility to process a wide range of sample sizes.



### Large LED Ambient Centrifuge

RPM	15,000 RPM max (10 RPM steps)
RCF	10 - 22,000
Timer	0-9hours & Hold (30 sec steps)
Dims WxDxH	575 x 665 x 415mm
Weight	90 Kg (without rotor)
Power	750 Watts
Memory	99 programs
Accel Rates	10 programs
Decel Rates	10 programs

**PART NUMBERS Ambient LED Centrifuge**  
 C-LARGE 230V 50/60Hz (previously C7000)  
 C-1.LARGE 110V 50/60Hz (previously 1.C7000)  
 Alternative plug types available.



### Large LED Refrigerated Centrifuge

RPM	15,000 RPM max (10 RPM steps)
RCF	10 - 22,000
Timer	0-9hours & Hold (30 sec steps)
Dims WxDxH	904 x 665 x 422mm
Weight	105Kg (without rotor)
Power	1200 Watts
Memory	99 programs
Accel Rates	10 programs
Decel Rates	10 programs
Temp Range	-10°C to +40°C PID controlled to +/- 1°C

**PART NUMBERS Refrigerated LED Centrifuge**  
 C-LARGE.R 230V 50/60Hz. (previously C7000R )  
 C-1.LARGE.R 110V 60Hz. (previously 1.C7000R )  
 Alternative plug types available.

## LCD LARGE CENTRIFUGES TO 2L & 3L

Centurion also offers a LCD touchscreen option with W2t control for sensitive research applications. Rotors are purchased separately, providing full flexibility to process a wide range of sample sizes.



### Large LCD Ambient Centrifuge

RPM	15,000 RPM max (10 RPM steps)
RCF	10 - 22,000
Timer	0-9 hours & Hold (30 sec steps)
Dims WxDxH	575 x 665 x 415mm
Weight	90 Kg (without rotor)
Power	750 Watts
Memory	99 programs
Accel Rates	10 programs
Decel Rates	10 programs

#### PART NUMBERS Ambient LCD Centrifuge

C-LARGE-LCD 230V 50/60Hz. (previously K243)  
C-1.LARGE-LCD 110V 50/60Hz. (previously 1.K243)  
Alternative plug types available.



### Large LCD Refrigerated Centrifuge

RPM	15,000 RPM max (10 RPM steps)
RCF	10 - 22,000
Timer	0-9hours & Hold (30 sec steps)
Dims WxDxH	904 x 665 x 422mm
Weight	105Kg (without rotor)
Power	1200 Watts
Memory	99 programs
Accel Rates	10 programs
Decel Rates	10 programs
Temp Range	-10°C to +40°C PID controlled to +/- 1°C

#### PART NUMBERS Refrigerated LCD Centrifuge

C-LARGE.R-LCD 230V 50/60Hz. (previously K243R)  
C-1.LARGE.R-LCD 110V 60Hz. (previously 1.K243R )  
Alternative plug types available.

## MICROTUBE ROTORS

The Microtube Rotors are designed for the centrifugation of smaller sample sizes ranging from 0.5 ml to 2 ml, as well as PCR strips. They offer a maximum speed of 22,000 RCF, programmable in 10 RCF increments for precise control.







C-R-FA5424 rotor with included sealed lid.



C-R-FA5424 rotor without included lid.

Rotor	C-R-FA5424	C-R-FA5436	C-R-FA5448	C-R-FA5494
Rotor Type	24 x 2.0ml	36 x 0.5ml	48 x 0.2 to 0.4ml	4 x PCR Strips
Tube Size	11 x 40mm	8 x 30mm	6 x 40mm	6 x 40mm
RCF Range (g)	10-22,000	10 -22,000	10 -22,000	10-22,000
Maximum RPM	15,000	15,000	15,000	15,000
Max Radius (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
Min Temp. @ Max Speed	4°C	4°C	4°C	4°C
Reducers Available	RS04, RS05	N/A	N/A	N/A
Sealed Lid Included?	Yes	Yes	Yes	Yes
Spare Lid Part No.	C-RL-1440	C-RL-1440	C-RL-1440	C-RL-1440
Autoclavable (frequency)	121°C (10)	121°C (10)	121°C (10)	121°C (10)

Reducers - Pack of 4	C-RC-RS04	C-RC-RS05
Capacity (ml):	0.2-0.4ml 	0.5ml 
Tube Size Max:	6 x 30mm 	8 x 30mm 

## MICROTUBE ROTORS - HIGH CAPACITY

The High-Capacity Microtube Rotors are designed for users who need to centrifuge 0.5 ml, 2.2ml and PCR strips at increased volume. They offer a maximum speed of 10,500 RCF, programmable in 10 RCF increments for precise control.



C-R-FA5348 rotor with included sealed lid.



C-R-FA5348 rotor without included lid.

Rotor	C-R-FA5348	C-R-FA5349	C-R-FA5398
Rotor Type	48 x 2.2ml	24 x 2.2 & 24 x 0.5ml	8 x PCR Strips
Tube Size Max	11 x 40mm	11x50 & 6x30mm	6 x 40mm
RCF Range (g)	10-10,500	10-10,500	10-10,500
Maximum RPM	10,000	10,000	10,000
Max Radius (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
Min. Temp @ Max Speed	0°C	0°C	0°C
Sealed Lid Included?	Yes	Yes	Yes
Spare Lid Part No.	C-RL-1720	C-RL-1720	C-RL-1720
Autoclavable (frequency)	121°C (10)	121°C (10)	121°C (10)

## 4 PLACE SWING OUT ROTOR

For larger-volume samples where cell viability is critical, Centurion recommends the four-place swing-out rotor. It accommodates either 4 x 500 ml or 4 x 750 ml tubes, depending on the buckets required, with a maximum total capacity of 2 or 3 L.



C-R-SO3000 rotor with C-B-2001 buckets sold separately.



C-B-2001 buckets with optional lids C-BL-B5319 sold separately.

C-R-SO3000		Buckets	
Historic Part Number	BRK3000	C-B-2001	4 x 500ml buckets
Capacity (Options)	2L & 3L	C-B-3001	4 x 750ml buckets
Max RPM	4000 RPM	C-BL-B5319	Optional sealed lids

Rotor/Bucket	C-R-SO3000 + C-B-2001	C-R-SO3000 + C-B-3001
Tube Size	98 x 160mm	98 x 170mm
RCF Range (g)	10-3600	10-4000
Maximum RPM	4000 RPM	4000 RPM
Max Radius (cms)	20.5	22.5
Sample Tube Angle °	0	0
Acceleration Time (secs)	40	40
Deceleration Time (secs)	40	40
Min. Temp @ Max Speed	4°C	4°C
Sealed Lid Included?	No	No
Spare Lid Product No.	C-BL-B5319	C-BL-B5319
Autoclavable (frequency)	121°C (10)	121°C (10)

The four-place swing-out rotor has an extensive range of adaptors available for both buckets, depending on your size and shape requirements. Please refer to the following two pages to select the most suitable adaptors for your needs.

# ADAPTORS FOR BUCKETS C-B-2001

## Tube Type: Micro with Cap. Shape: Point

Capacity	Size. mm	Part Number	Historical Part Number	Tubes per rotor
0.5ml	8 x 20	C-A-AM805-2	AM805-2	144
1.5ml	11 x 38	C-A-AM820-2	AM820-2	92
2.0ml	11 x 38	C-A-AM820-2	AM820-2	92
0.2ml	6 x 20	C-A-AM802-2	AM802-2	172
0.4ml	6 x 30	C-A-AM804-2	AM804-2	172

## Tube Type: Plain no Cap. Shape: Round

1ml	6 x 45	C-A-AR801-2	AR801-2	172
3ml	10 x 60	C-A-AR803-2	AR803-2	96
5ml	12 x 75	C-A-AR805-2	AR805-2	96
6ml	12 x 82	C-A-AR806-2	AR806-2	96
7ml	12 x 100	C-A-AR807-2	AR807-2	96
9/10ml	14 x 100	C-A-AR809-2	AR809-2	84
15ml	17 x 100	C-A-AR815-2	AR815-2	48
25ml	24 x 100	C-A-AR825-2	AR825-2	28
50ml	34 x 100	C-A-AR850-2	AR850-2	16
100ml	45 x 100	C-A-AR8100-2	AR8100-2	8
150ml	52 x 100	C-A-AR8150-2	AR8150-2	4
250ml	62 x 100	C-A-AR8250-2	AR8250-2	4

## Tube Type: Falcon with Cap. Shape: Point

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

## Tube Type: Falcon with Cap. Shape: Square

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

## Tube Type: Corning with Cap. Shape: Point

250ml	60 x 165	C-A-AF8250-2	AF8250-2	4
500ml	96 x 148	C-A-AF8500-2	AF8500-2	4

## Tube Type: Nalgene. Oakridge with Cap. Shape: Round

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

## Tube Type: Herolab with Cap. Shape: Square

250ml	62 x 122	C-A-ANO8252-2	ANO8252-2	4
500ml	98 x 114	C-A-AH2695R	AH2695R	4 No lid

## Tube Type: Monovette. Shape: Square

1.1-1.4ml	8 x 82	C-A-AM8014-2	AM8014-2	96
2.7-3ml	11 x 82	C-A-AM803-2	AM803-2	76
2.6-2.9ml	13 x 81	C-A-AM829-2	AM829-2	68
4.5-5ml	11 x 108	C-A-AM845-2	AM845-2	76
7.5-8.2ml	13 x 106	C-A-AM879-2	AM879-2	68
4.5-5ml	15 x 92	C-A-AM850-2	AM850-2	64
9-10ml	16 x 108	C-A-AM890-2	AM890-2	64

## Tube Type: Vacutainer. Shape: Round & Vacuette

1.6-5ml	13 x 82	C-A-AV816-2	AV816-2	68
4-7ml	13 x 106	C-A-AV850-2	AV850-2	68
7-9ml	15 x 92	C-A-AV870-2	AV870-2	64
8.5-10ml	16 x 108	C-A-AV880-2	AV880-2	64

# ADAPTORS FOR BUCKETS C-B-3001

## Tube type: Micro with cap. Shape: Point

Capacity	Size. mm	Part Number	Historical Part Number	Tubes per rotor
0.5ml	8 x 20	C-A-AM805-3	AM805-3	288
1.5ml	11 x 38	C-A-AM820-3	AM820-3	184
2.0ml	11 x 38	C-A-AM820-3	AM820-3	184
0.2ml	6 x 20	C-A-AM802-3	AM802-3	336
0.4ml	6 x 30	C-A-AM804-3	AM804-3	336

## Tube type: Plain no cap. Shape: Round

1ml	6 x 45	C-A-AR801-3	AR801-3	172
3ml	10 x 60	C-A-AR803-3	AR803-3	96
5ml	12 x 75	C-A-AR805-3	AR805-3	96
6ml	12 x 82	C-A-AR806-3	AR806-3	96
7ml	12 x 100	C-A-AR807-3	AR807-3	96
9/10ml	14 x 100	C-A-AR809-3	AR809-3	84
15ml	17 x 100	C-A-AR815-3	AR815-3	48
25ml	24 x 100	C-A-AR825-3	AR825-3	28
50ml	34 x 100	C-A-AR850-3	AR850-3	16
100ml	45 x 100	C-A-AR8100-3	AR8100-3	8
150ml	52 x 100	C-A-AR8150-3	AR8150-3	4
250ml	62 x 100	C-A-AR8250-3	AR8250-3	4

## Tube type: Falcon with Cap. Shape: Point

15ml	17 x 120	C-A-AF815-3	AF815-3	36
50ml	29 x 115	C-A-AF850-3	AF850-3	20
175ml	61 x 118	C-A-AF8175-3	AF8175-3	4

## Tube type: Falcon with Cap. Shape: Square

12ml	17 x 100	C-A-AFS812-3	AFS812-3	48
15ml	17 x 120	C-A-AFS815-3	AFS815-3	36
25ml	25 x 90	C-A-AFS825-3	AFS825-3	24
30ml	25 x 110	C-A-AFS830-3	AFS830-3	24
50ml	29 x 115	C-A-AFS850-3	AFS850-3	20

## Tube type: Corning with Cap. Shape: point

250ml	60 x 165	C-A-AF8250-3	AF8250-3	4
500ml	96 x 148	C-A-AF8500-3	AF8500-3	4

## Tube type: Nalgene. Oakridge with Cap. Shape: Round

10ml	15 x 80	C-A-ANO810-3	ANO810-3	64
30ml	26 x 95	C-A-ANO830-3	ANO830-3	24
50ml	29 x 107	C-A-ANO850-3	ANO850-3	20
100ml	38 x 106	C-A-ANO8100-3	ANO8100-3	12
250ml	62 x 133	C-A-ANO8250-3	ANO8250-3	4

## Tube type: Herolab with Cap. Shape: Square

250ml	62 x 122	C-A-ANO8252-3	ANO8252-3	4
500ml	98 x 114	C-A-AH2695R	AH2695R	4
750ml	98 x 136	C-A-AH2695R	AH2695R	4 No lid

## Tube type: Monovette. Shape: Square

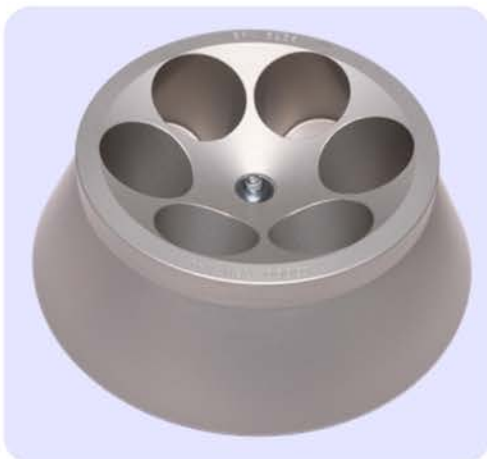
1.1-1.4ml	8 x 82	C-A-AM8014-3	AM8014-3	112
2.7-3ml	11 x 82	C-A-AM803-3	AM803-3	76
2.6-2.9ml	13 x 81	C-A-AM829-3	AM829-3	76
4.5-5ml	11 x 108	C-A-AM845-3	AM845-3	76
7.5-8.2ml	13 x 106	C-A-AM879-3	AM879-3	76
4.5-5ml	15 x 92	C-A-AM850-3	AM850-3	64
9-10ml	16 x 108	C-A-AM890-3	AM890-3	64

## Tube type: Vacutainer. Shape: Round & Vacuette

1.6-5ml	13 x 82	C-A-AV816-3	AV816-3	76
4-7ml	13 x 106	C-A-AV850-3	AV850-3	76
7-9ml	15 x 92	C-A-AV870-3	AV870-3	64
8.5-10ml	16 x 108	C-A-AV880-3	AV880-3	64

# HIGH VOLUME FIXED ANGLE ROTOR

For high-volume samples, Centurion offers the six-place fixed-angle rotor for the Large Centrifuges. It can hold up to 6 × 250 ml tubes, with a maximum RCF of 16,100.



C-R-FA5256 rotor, no lid available

Rotor	C-R-FA5256
Rotor Type	6 x 250ml
Tube Size Max	62 x 130mm
RCF Range (g)	10-16,100
Maximum RPM	10,000
Max Radius (cm)	14.4
Sample Tube Angle °	30
Acceleration Time (secs)	90
Deceleration Time (secs)	180
Min. Temp @ Max Speed	4°C
Reducers Available	RM05, RM10, RM15, RM25, RM50, RM85-100
Autoclavable (frequency)	121°C (10)

Reducers	C-RC-RM05	C-RC-RM10	C-RC-RM15	C-RC-RM25
Capacity (ml):	5ml	10ml	15ml	25ml
Tube Size Max:	13 x 80mm	14 x 100mm	17 x 100mm	24 x 100mm

Reducers	C-RC-RM50	C-RC-RM85-100
Capacity (ml):	50ml	85-100ml
Tube Size Max:	30 x 110mm	39 x 110mm

## HIGH SPEED FIXED ANGLE ROTORS

Centurion offers three high-speed fixed-angle rotors for the Large Centrifuges, available for 15 ml, 50 ml, and 100 ml sample sizes. All rotors have a maximum speed of 13,400 RCF, or 10,000 RPM.



C-R-FA5224 rotor with included sealed lid.



C-R-FA5224 rotor without included sealed lid.

Rotor	C-R-FA5224	C-R-FA5208	C-R-FA5210
Rotor Type	24 x 15ml	8 x 50ml	6 x 100ml
Tube size max	17 x 120mm	30 x 120mm	38 x 125mm
RCF Range (g)	10-13,400	10-13,400	10-13,400
Maximum RPM	10,000	10,000	10,000
Max Radius (cm)	12	8.5	12
Sample tube angle °	30	60	30
Acceleration time (secs)	70	180	70
Deceleration time (secs)	130	25	130
Min. Temp @ Max Speed	4°C	4°C	4°C
Reducers Available	RM10, RM15	RM15, RM25	RM50
Sealed Lid Included?	Yes	Yes	Yes
Spare Lid Part No.	C-RL-1720	C-RL-1720	C-RL-1720
Autoclavable (frequency)	121°C (10)	121°C (10)	121°C (10)

Reducers	C-RC-RM10	C-RC-RM15	C-RC-RM25	C-RC-RM50
Capacity (ml):	10ml 	15ml 	25ml 	50ml 
Tube Size Max:	14 x 100mm	17 x 100mm	24 x 100mm	30 x 110mm

## LOW SPEED FIXED ANGLE ROTORS

Centurion offers three low-speed fixed-angle rotors for the Large Centrifuges, available for 15 ml, 50 ml, or 100 ml sample sizes. All rotors can centrifuge up to 4,800 RCF, or 6,000 RPM.








C-R-FA5324 rotor with included sealed lid.



C-R-FA5324 rotor without included sealed lid.

Rotor	C-R-FA5324	C-R-FA5308	C-R-FA5100
Rotor Type	24 x 15ml	8 x 50ml	6 x 100ml
Tube Size Max	17 x 120mm	30 x 120mm	38 x 125mm
RCF Range (g)	10-4,800	10-4,800	10-4,800
Maximum RPM	6000	6000	6000
Max Radius (cm)	12	12	12
Sample Tube Angle °	30	30	30
Acceleration time (secs)	30	30	30
Deceleration time (secs)	35	35	35
Min. Temp @ Max Speed	0°C	0°C	0°C
Available Reducers	RM05, RM10	RM15, RM25	RM50
Sealed Lid Included?	Yes	Yes	Yes
Spare Lid Part No.	C-RL-1720	C-RL-1720	C-RL-1720
Autoclavable (frequency)	121°C (10)	121°C (10)	121°C (10)

Reducers	C-RC-RM05	C-RC-RM10	C-RC-RM15	C-RC-RM25	C-RC-RM50
Capacity (ml):	5ml	10ml	15ml	25ml	50ml
Tube Size Max:	13 x 80mm	14 x 100mm	17 x 100mm	24 x 100mm	30 x 110mm
					

## MICROTITER PLATE ROTOR

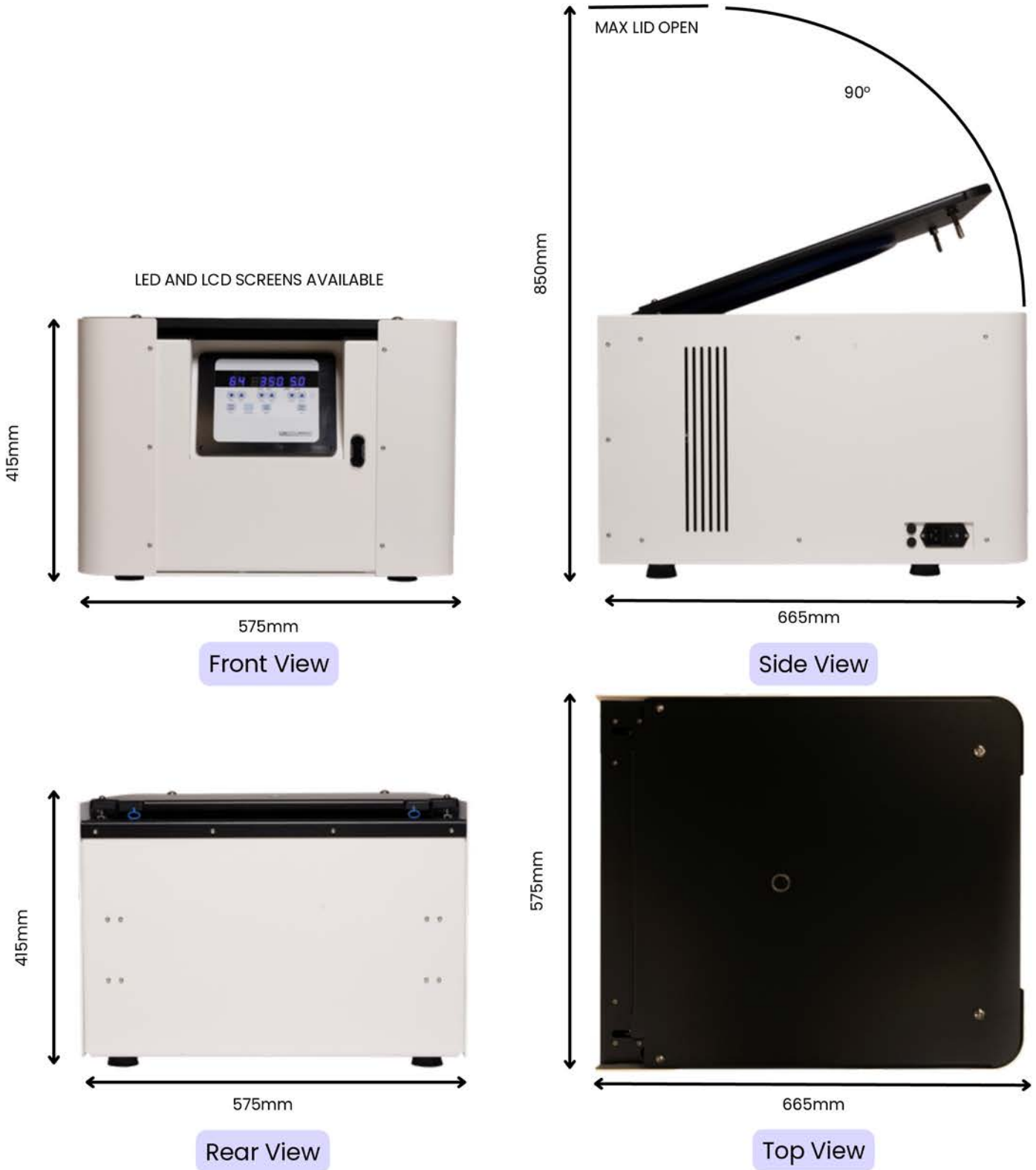
The Microtiter Rotor is a high-performance rotor for microplate centrifugation, ideal for ELISA, PCR, and other assay workflows. It offers rapid spin-down, low vibration, and secure plate clamping for reliable results, while its robust, corrosion-resistant construction ensures long-lasting, safe use in busy laboratories.



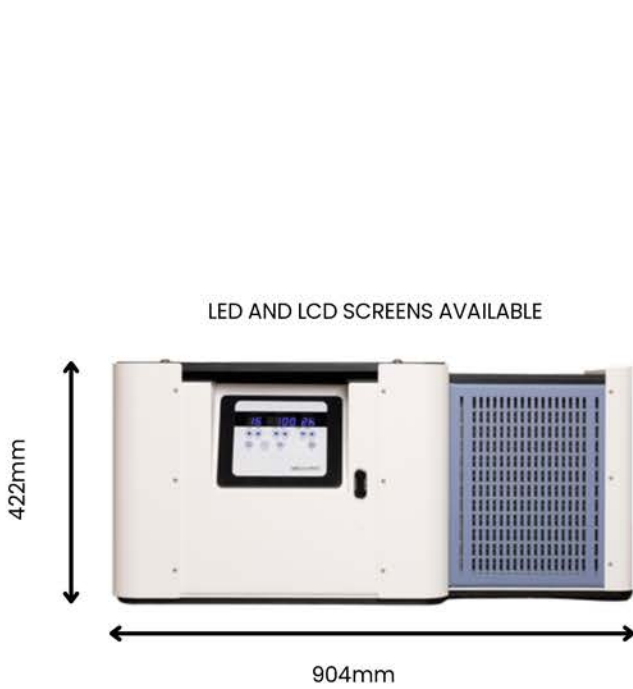
*C-R-MT5540 with included buckets.*

Rotor	C-R-MT5540
Buckets	Complete with buckets, Available with 4 x STD Plates
Plate Size	85mm x 128mm
RCF Range (g)	10-2500
Maximum RPM	3500
Radius Max (cms)	14
Sample Tube Angle °	0° (10)
Acceleration Time (secs)	30
Deceleration Time (secs)	30
Min. Temp @ Max Speed	0°C
Autoclavable (frequency)	121°C (10)

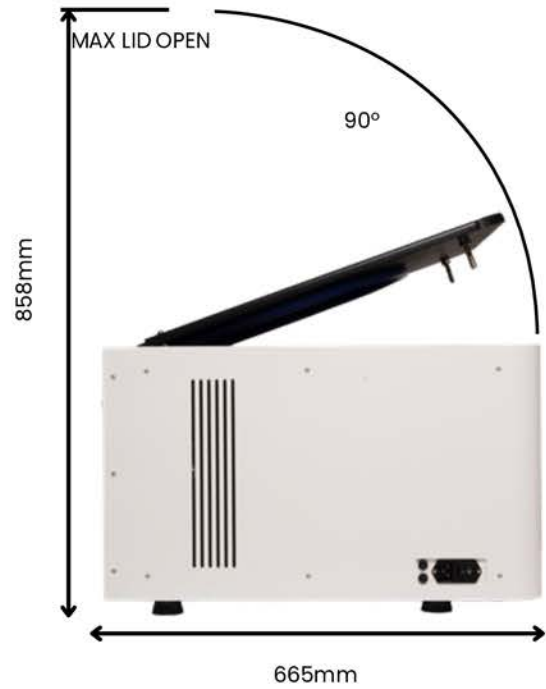
# LARGE AMBIENT CENTRIFUGE DIMENSIONS



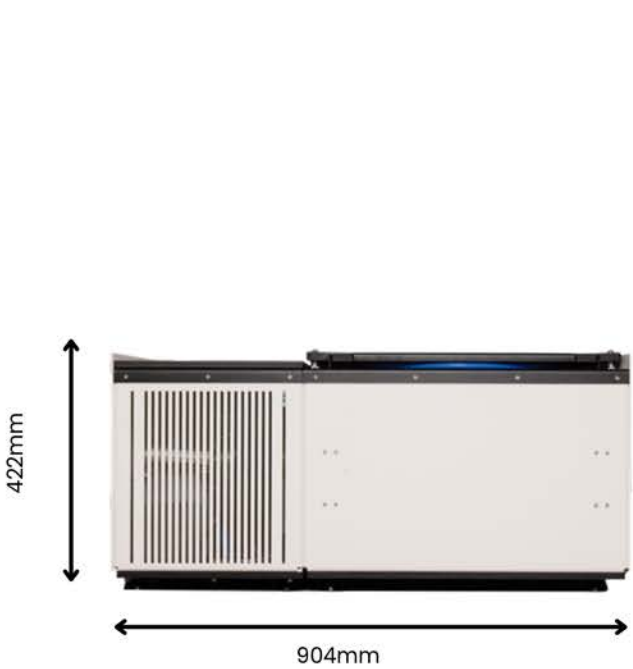
# LARGE REFRIGERATED CENTRIFUGE DIMENSIONS



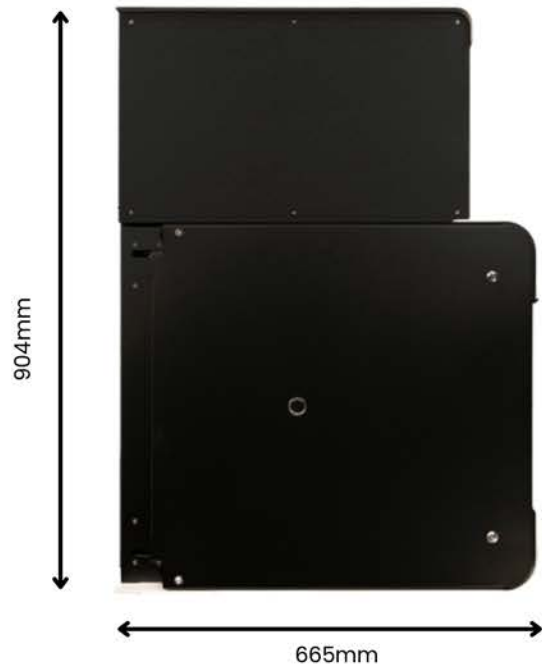
Front View



Side View



Rear View



Top View

# Welcome to the Floor Standing Centrifuge Range

Floor Standing Centrifuges 63-64

Microtube Rotors 65-66

4 Place Swing Out Rotor & Adaptors 67-69

Fixed Angle Rotors 70-72

Microtiter Plate Rotor 73

Centrifuge Dimensions 74-75

## LED FLOOR CENTRIFUGES TO 4L

Centurion’s Floor-Standing Centrifuges are the largest in the Pro-Analytical series, accommodating up to 4 L of samples. Rotors are purchased separately, providing full flexibility to analyse a wide range of sample sizes.



### Floor LED Ambient Centrifuge

RPM	15,000 RPM (10 RPM steps)
RCF	10 - 22,000
Timer	0-9hours (30sec steps)
Dims WxDxH	575 x 665 x 875mm
Weight	135kg (without rotor)
Power	1200 Watts
Memory	99 programs
Accel rates	10 programs
Decel Rates	10 programs

**PART NUMBERS Ambient LED Centrifuge**  
 C-FLOOR 230V 50/60Hz. (previously CFS4)  
 C-1.FLOOR 110V 50/60Hz (previously 1.CFS4)  
 Alternative plug types available.



### Floor LED Refrigerated Centrifuge

RPM	15,000 RPM (10 RPM steps)
RCF	10 - 22,000
Timer	0-9 hours (30 sec steps)
Dims WxDxH	575 x 665 x 875mm
Weight	197Kg (without rotor)
Power	1200 Watts
Memory	99 programs
Accel Rates	10 programs
Decel Rates	10 programs
Temp. Range	-10°C to +40°C PID Controlled to +/- 1°C

**PART NUMBERS Refrigerated LED Centrifuge**  
 C-FLOOR.R 230V 50/60Hz. (previously CFS4R.)  
 C-1.FLOOR.R 110V 60Hz (previously 1.CFS4R)  
 Alternative plug types available.

## LCD FLOOR CENTRIFUGES TO 4L

Centurion also offers the floor standing centrifuge with an LCD touchscreen, accommodating up to 4 L of samples. Rotors are purchased separately, providing full flexibility to analyse a wide range of sample sizes.



### Floor LCD Ambient Centrifuge

RPM	15,000 RPM max (10 RPM steps)
RCF	10 - 22,000
Timer	0-9 hours & hold (30sec steps)
Dims WxDxH	575 x 665 x 875mm
Weight	135kg (without rotor)
Power	1200 Watts
Memory	99 programs
Accel rates	10 programs
Decel Rates	10 programs

#### PART NUMBERS Ambient Centrifuge

C-FLOOR-LCD 230V 50/60Hz. (previously K2FS)  
 C-1.FLOOR-LCD 110V 50/60Hz (previously 1.K2FS)  
 Alternative plug types available.



### Floor LCD Refrigerated Centrifuge

RPM	15,000 RPM (10 RPM steps)
RCF	10 - 22,000
Timer	0-9 hours & Hold (30 sec steps)
Dims WxDxH	575 x 665 x 875mm
Weight	197Kg (without rotor)
Power	1200 Watts
Memory	99 programs
Accel Rates	10 programs
Decel Rates	10 programs
Temp. Range	-10°C to +40°C PID Controlled to +/- 1°C

#### PART NUMBERS Refrigerated Centrifuge

C-FLOOR.R-LCD 230V 50/60Hz. (previously K2FS4R)  
 C-1.FLOOR.R-LCD 110V 60Hz. (previously 1.K2FS4R)  
 Alternative plug types available.

## MICROTUBE ROTORS

The Microtube Rotors are designed for the centrifugation of smaller sample sizes ranging from 0.5 ml to 2 ml, as well as PCR strips. They offer a maximum speed of 22,000 RCF, programmable in 10 RCF increments for precise control.



C-R-FA5424 rotor with included sealed lid.



C-R-FA5424 rotor without included lid.

Rotor	C-R-FA5424	C-R-FA5436	C-R-FA5448	C-R-FA5494
Rotor Type	24 x 2.0ml	36 x 0.5ml	48 x 0.2 to 0.4ml	4 x PCR Strips
Tube Size	11 x 40mm	8 x 30mm	6 x 40mm	6 x 40mm
RCF Range (g)	10-22,000	10 -22,000	10 -22,000	10-22,000
Maximum RPM	15,000	15,000	15,000	15,000
Max Radius (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
Min Temp @ Max Speed	4°C	4°C	4°C	4°C
Reducers Available	RS04, RS05	N/A	N/A	N/A
Sealed Lid Included?	Yes	Yes	Yes	Yes
Spare Lid Part No.	C-RL-1440	C-RL-1440	C-RL-1440	C-RL-1440
Autoclavable (frequency)	121°C (10)	121°C (10)	121°C (10)	121°C (10)

Reducers - Pack of 4	C-RC-RS04	C-RC-RS05
Capacity (ml):	0.2-0.4ml	0.5ml
Tube Size Max:	6 x 30mm	8 x 30mm

## MICROTUBE ROTORS - HIGH CAPACITY

The High-Capacity Microtube Rotors are designed for users who need to centrifuge 0.5 ml, 2.2ml and PCR strips at increased volume. They offer a maximum speed of 10,500 RCF, programmable in 10 RCF increments for precise control.



*C-R-FA5348 rotor with included sealed lid.*



*C-R-FA5348 rotor without included lid.*

Rotor	C-R-FA5348	C-R-FA5349	C-R-FA5398
Rotor Type	48 x 2.2ml	24 x 2.2 & 24 x 0.5ml	8 x PCR Strips
Tube Size Max	11 x 40mm	11x50 & 6x30mm	6 x 40mm
RCF Range (g)	10-10,500	10-10,500	10-10,500
Maximum RPM	10,000	10,000	10,000
Max Radius (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
Min. Temp @ Max Speed	0°C	0°C	0°C
Sealed Lid Included?	Yes	Yes	Yes
Spare Lid Part No.	C-RL-1720	C-RL-1720	C-RL-1720
Autoclavable (frequency)	121°C (10)	121°C (10)	121°C (10)

## 4 PLACE SWING OUT ROTOR

For larger-volume samples where cell viability is critical, Centurion recommends the four-place swing-out rotor, which accommodates 4 × 1,000 ml tubes, depending on the buckets required, with a maximum total capacity of 4L.



C-R-SO3000 rotor with C-B-4001 buckets sold separately.



C-B-4001 buckets with optional lids C-BL-B5319 sold separately.

### C-R-SO3000

Historic Part Number	BRK3000
Capacity (Options)	4L Max Capacity
Max RPM	4000 RPM

### Buckets

C-B-4001	4 x 1000ml buckets
C-BL-B5319	Optional sealed lids

Rotor/Bucket	C-R-SO3000 + C-B-4001
--------------	-----------------------

Tube Size Max	98 x 180mm
RCF Range (g)	10-4500
Maximum RPM	4000
Max Radius (cm)	22.5
Sample Tube Angle °	0
Acceleration Time (secs)	40
Deceleration Time (secs)	40
Min. Temp @ Max Speed	4°C
Sealed Lid Included?	No
Spare Lid Part No.	C-BL-B5319
Autoclavable (frequency)	121°C (10)

The four-place swing-out rotor has an extensive range of adaptors available for both buckets, depending on your size and shape requirements. Please refer to the following two pages to select the most suitable adaptors for your needs.

## ADAPTORS FOR BUCKETS C-B-4001

### Tube Type: Micro with Cap. Shape: Point

Capacity	Size. mm	Part Number	Historic Part Number	Tubes per Rotor
0.5ml	8 x 20	C-A-AM805-4	AM805-4	288
1.5ml	11 x 38	C-A-AM820-4	AM820-4	184
2.0ml	11 x 38	C-A-AM820-4	AM820-4	184
0.2ml	6 x 20	C-A-AM802-4	AM802-4	336
0.4ml	6 x 30	C-A-AM804-4	AM804-4	336

### Tube Type: Plain no Cap. Shape: Round

1ml	6 x 45	C-A-AR801-4	AR801-4	172
3ml	10 x 60	C-A-AR803-4	AR803-4	96
5ml	12 x 75	C-A-AR805-4	AR805-4	96
6ml	12 x 82	C-A-AR806-4	AR806-4	96
7ml	12 x 100	C-A-AR807-4	AR807-4	96
9/10ml	14 x 100	C-A-AR809-4	AR809-4	84
15ml	17 x 100	C-A-AR815-4	AR815-4	48
25ml	24 x 100	C-A-AR825-4	AR825-4	28
50ml	34 x 100	C-A-AR850-4	AR850-4	16
100ml	45 x 100	C-A-AR8100-4	AR8100-4	8
150ml	52 x 100	C-A-AR8150-4	AR8150-4	4
250ml	62 x 100	C-A-AR8250-4	AR8250-4	4

### Tube Type: Falcon with Cap. Shape: Point

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

### Tube Type: Falcon with Cap. Shape: Square

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

### Tube Type: Corning with Cap. Shape: Point

250ml	60 x 165	C-A-AF8250-4	AF8250-4	4
500ml	96 x 148	C-A-AF8500-4	AF8500-4	4

### Tube Type: Nalgene. Oakridge with Cap. Shape: Round

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

### Tube Type: Herolab with Cap. Shape: Square

250ml	62 x 122	C-A-ANO8252-4	ANO8252-4	4
500ml	98 x 114	C-A-AH2695R	AH2695R	4 No Lid
750ml	98 x 136	C-A-AH2695R	AH2695R	4 No Lid
950ml	100 x 155	C-A-AH2695R	AH2695R	4 No Lid

### Tube Type: Monovette. Shape: Square

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

### Tube type: Vacutainer. Shape: Round & Vacuette

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

# HIGH VOLUME FIXED ANGLE ROTOR

For high-volume samples, Centurion offers the six-place fixed-angle rotor for the Floor Centrifuges. It can hold up to 6 × 250 ml tubes, with a maximum RCF of 16,100.



C-R-FA5256 rotor, no lid available

Rotor	C-R-FA5256
Rotor Type	6 x 250ml
Tube Size Max	62 x 130mm
RCF Range (g)	10-16,100
Maximum RPM	10,000
Max Radius (cm)	14.4
Sample Tube Angle °	30
Acceleration Time (secs)	90
Deceleration Time (secs)	180
Min. Temp @ Max Speed	4°C
Reducers Available	RM05, RM10, RM15, RM25, RM50, RM85-100
Autoclavable (frequency)	121°C (10)

Reducers	C-RC-RM05	C-RC-RM10	C-RC-RM15	C-RC-RM25
Capacity (ml):	5ml	10ml	15ml	25ml
Tube Size Max:	13 x 80mm	14 x 100mm	17 x 100mm	24 x 100mm

Reducers	C-RC-RM50	C-RC-RM85 -100
Capacity (ml):	50ml	85-100ml
Tube Size Max:	30 x 110mm	39 x 110mm

## HIGH SPEED FIXED ANGLE ROTORS

Centurion offers three high-speed fixed-angle rotors for the Floor Centrifuges, available for 15 ml, 50 ml, and 100 ml sample sizes. All rotors have a maximum speed of 13,400 RCF, or 10,000 RPM.







C-R-FA5224 rotor with included sealed lid.



C-R-FA5224 rotor without included sealed lid.

Rotor	C-R-FA5224	C-R-FA5208	C-R-FA5210
Rotor Type	24 x 15ml	8 x 50ml	6x 100ml
Tube size max	17 x 120mm	30 x 120mm	38 x 125mm
RCF Range (g)	10-13,400	10-13,400	10-13,400
Maximum RPM	10,000	10,000	10,000
Max Radius (cm)	12	8.5	12
Sample tube angle °	30	60	30
Acceleration time (secs)	70	180	70
Deceleration time (secs)	130	25	130
Min. Temp @ Max Speed	4°C	4°C	4°C
Reducers Available	RM10, RM15	RM15, RM25	RM50
Sealed Lid Included?	Yes	Yes	Yes
Spare Lid Part No.	C-RL-1720	C-RL-1720	C-RL-1720
Autoclavable (frequency)	121°C (10)	121°C (10)	121°C (10)

Reducers	C-RC-RM10	C-RC-RM15	C-RC-RM25	C-RC-RM50
Capacity (ml):	10ml 	15ml 	25ml 	50ml 
Tube Size Max:	14 x 100mm	17 x 100mm	24 x 100mm	30 x 110mm

## LOW SPEED FIXED ANGLE ROTORS

Centurion offers three low-speed fixed-angle rotors for the Floor Centrifuges, available for 15 ml, 50 ml, or 100 ml sample sizes. All rotors can centrifuge up to 4,800 RCF, or 6,000 RPM.







C-R-FA5324 rotor with included sealed lid.



C-R-FA5324 rotor without included sealed lid.

Rotor	C-R-FA5324	C-R-FA5308	C-R-FA5100
Rotor Type	24 x 15ml	8 x 50ml	6 x 100ml
Tube Size Max	17 x 120mm	30 x 120mm	38 x 125mm
RCF Range (g)	10-4,800	10-4,800	10-4,800
Maximum RPM	6000	6000	6000
Max Radius (cm)	12	12	12
Sample Tube Angle °	30	30	30
Acceleration time (secs)	30	30	30
Deceleration time (secs)	35	35	35
Min. Temp @ Max Speed	0°C	0°C	0°C
Available Reducers	RM05, RM10	RM15, RM25	RM50
Sealed Lid Included?	Yes	Yes	Yes
Spare Lid Part No.	C-RL-1720	C-RL-1720	C-RL-1720
Autoclavable (frequency)	121°C (10)	121°C (10)	121°C (10)

Reducers	C-RC-RM05	C-RC-RM10	C-RC-RM15	C-RC-RM25	C-RC-RM50
Capacity (ml):	5ml	10ml	15ml	25ml	50ml
Tube Size Max:	13 x 80mm	14 x 100mm	17 x 100mm	24 x 100mm	30 x 110mm
					

## MICROTITER PLATE ROTOR

The Microtiter Rotor is a high-performance rotor for microplate centrifugation, ideal for ELISA, PCR, and other assay workflows. It offers rapid spin-down, low vibration, and secure plate clamping for reliable results, while its robust, corrosion-resistant construction ensures long-lasting, safe use in busy laboratories.



*C-R-MT5540 with included buckets.*

Rotor	C-R-MT5540
Buckets	Complete with buckets, Available with 4 x STD Plates
Tube Size	85mm x 128mm
RCF Range (g)	10-2500
Maximum RPM	3500
Radius Max (cms)	14
Sample Tube Angle °	0°C (10)
Acceleration Time (secs)	30
Deceleration Time (secs)	30
Min. Temp @ Max Speed	0°C
Autoclavable (frequency)	121°C (10)

# FLOOR AMBIENT CENTRIFUGE DIMENSIONS

LED AND LCD SCREENS AVAILABLE



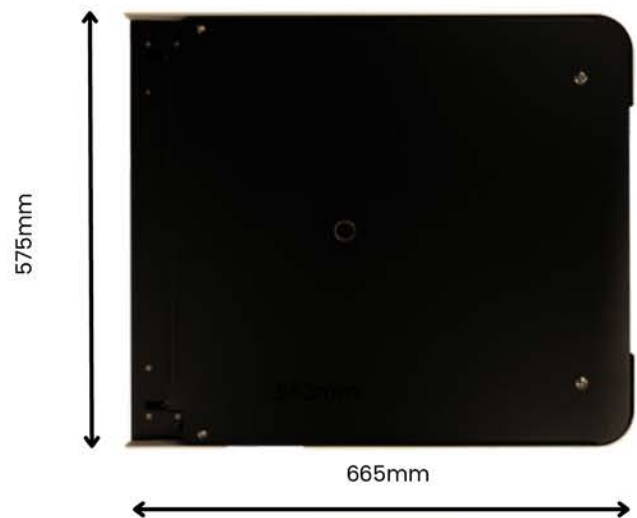
Front View



Side View



Rear View



Top View

# FLOOR REFRIGERATED CENTRIFUGE DIMENSIONS

LED AND LCD SCREENS AVAILABLE



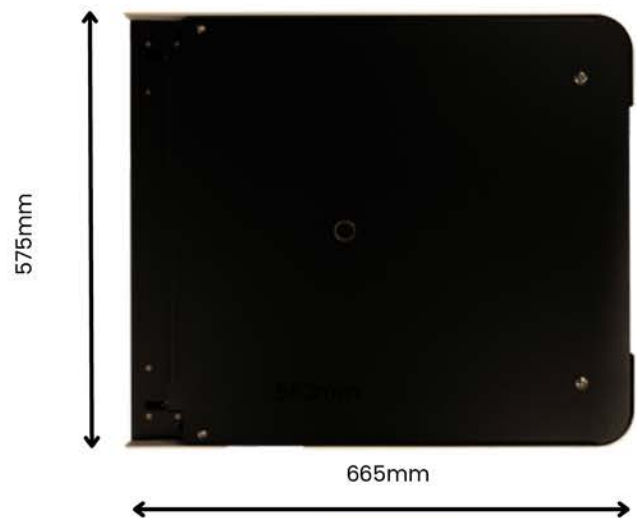
Front View



Side View



Rear View



Top View

# Contact

Hawksley & Sons  
Fishersgate Forge,  
Mill Road,  
Fishersgate, Hove,  
BN41 1PD

[centurion@hawksley.co.uk](mailto:centurion@hawksley.co.uk)  
+44 (0)1903 752 815  
[Pro Analytical Collection](#)

