

Pro Analytical Micro Centrifuge

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 Micro Centrifuge 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



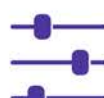
Rotor
versatility for
any program



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

ω^2t (W2t) Centrifugation.

The term ω^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

- ω (omega) represents the angular velocity (rotor speed in radians per second), and t represents the run time.
- The ω^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 ω^2t are typically radians squared per second (rad^2/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 RCFt.

RCFt 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°C to 40°C , accurate to $\pm 1^{\circ}\text{C}$, ensuring exceptional stability and superior control compared with alternative systems.

How?

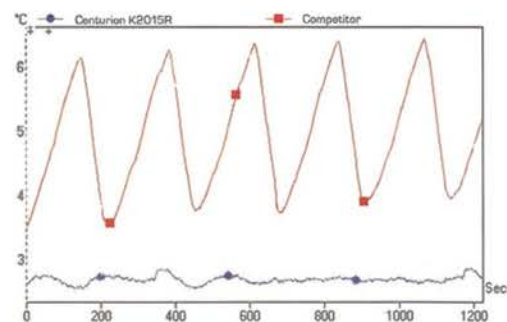
Centurion Scientific keep the compressor running constantly, a unique method which increases compressor life and drastically reduces power use. Constantly turning a compressor on and off causes unequal power surges, and results in poor temperature control.

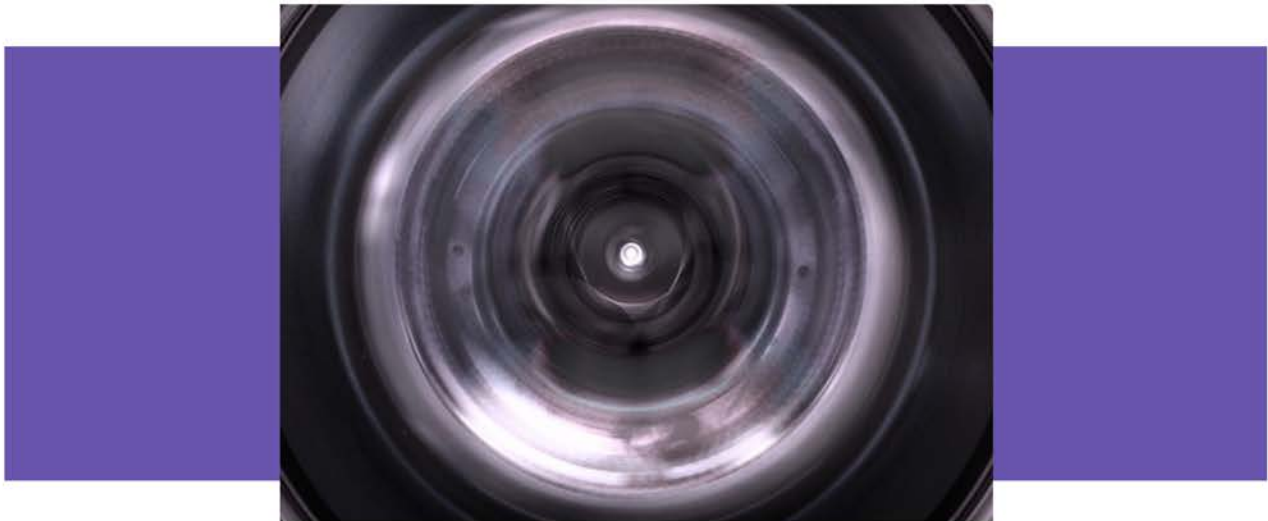
Why?

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°C and the competitor at 4°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](#)

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.

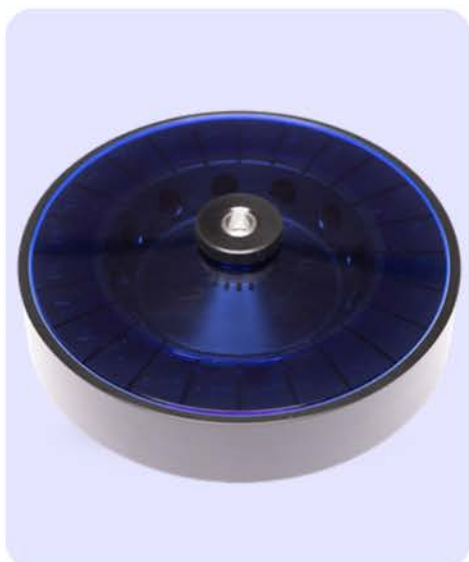
Rotor	C-R-FA5463	C-R-FA5464
Rotor Type	36 x 2.0ml	18 x 2.0 & 18 x 0.5ml
Tube Size Max	11 x 40mm	11x50 & 8x30mm
RCF Range	10-22,000	10-22,000
Maximum RPM	15,000	15,000
Max Radius (cms)	8.75cms	8.75cms
Sample Tube Angle °	45	45
Acceleration Time (secs)	15	15
Deceleration Time (secs)	15	15
Min. Temp @ Max 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 - Replace regularly every 2 months

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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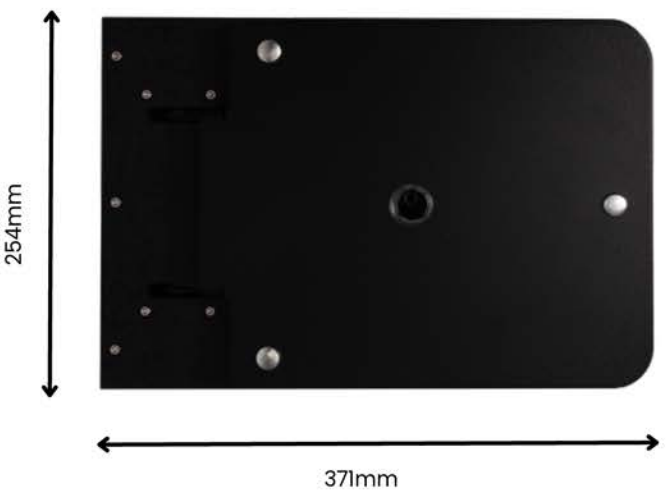
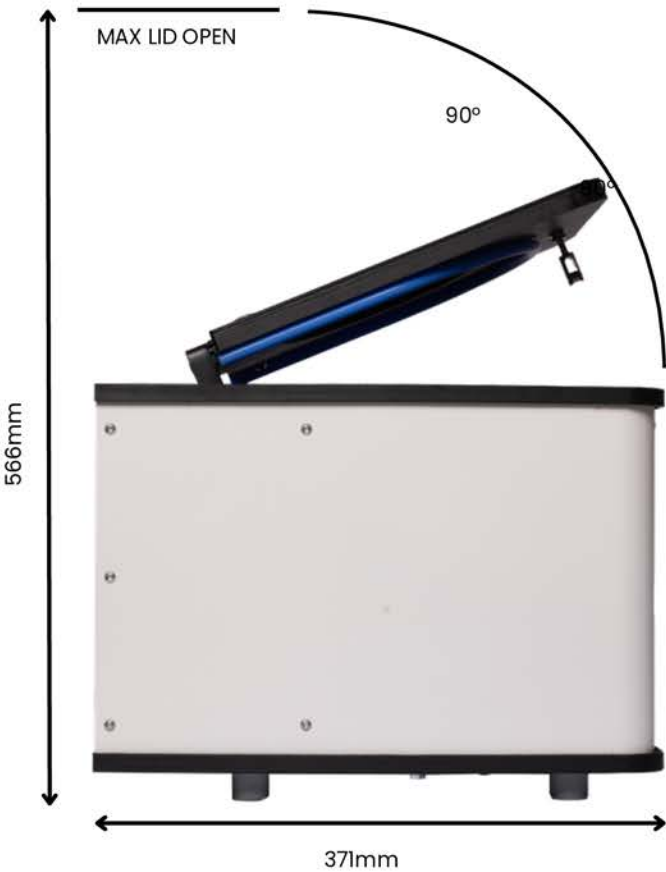
Tube Type: Monovette. Shape: Square

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

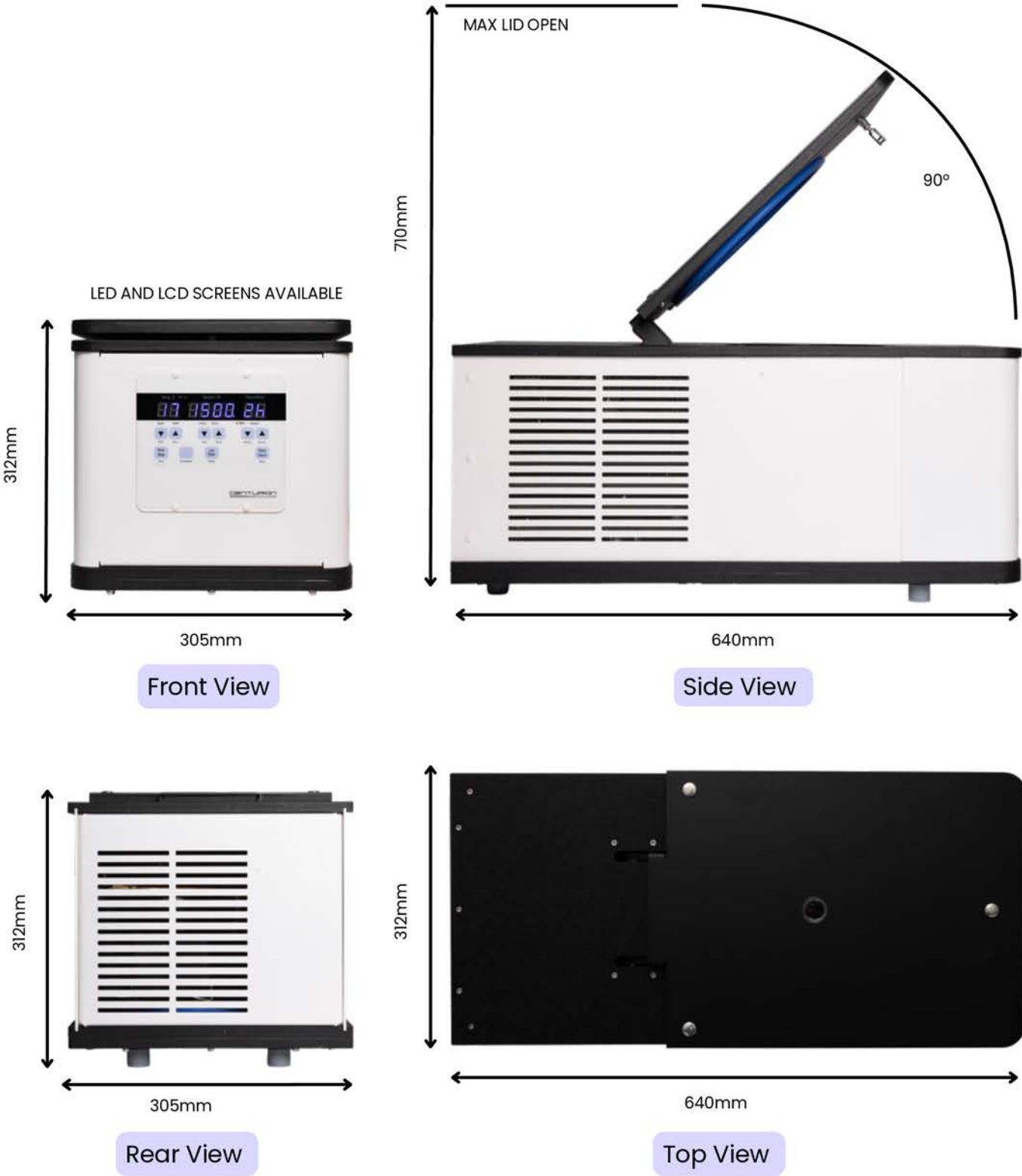
Tube Type: Vacutainer. Shape: Round

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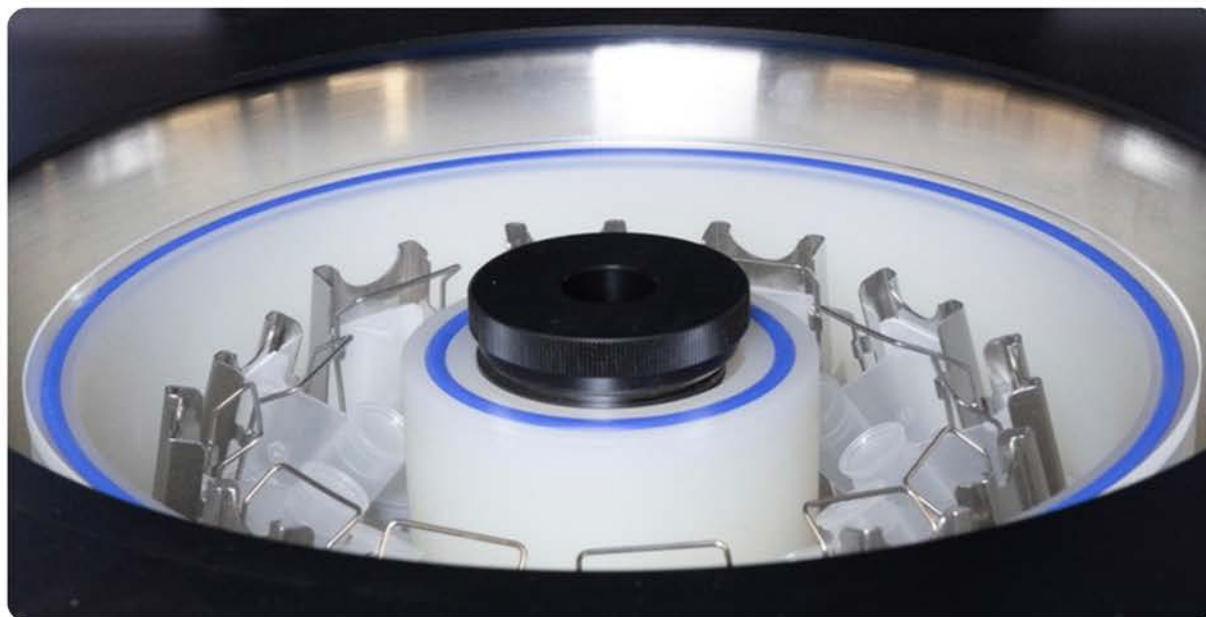
MICRO AMBIENT CENTRIFUGE DIMENSIONS



MICRO REFRIGERATED CENTRIFUGE DIMENSIONS



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](#)

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